



Scalar i6000, i3 & i6

RESTful Web Services API



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# Scalar i6000, i3 & i6 RESTful Web Services Application Programming Interface

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# 1. Introduction

## 1.1 General

The Scalar i6000, i3 and i6 Web Services application interface uses the REpresentational State Transfer (REST) architectural principles. REST is a software architecture style that builds distributed systems consisting of clients and server components. Clients initiate requests and servers process these requests and return responses, where the response can be a status or a representation of the resources being requested.

REST is protocol independent. The Scalar i6000, i3 and i6 uses the Hypertext Transfer Protocol (HTTP) as the application protocol. For more information regarding REST, visit [http://en.wikipedia.org/wiki/Representational\\_state\\_transfer](http://en.wikipedia.org/wiki/Representational_state_transfer).

The Scalar i6000, i3 and i6 REST architecture principles are defined as follows:

## 1.2 Addressable Resources

Information and data is represented as resources which are addressed by a Uniform Resource Identifier (URI). The format of a URI is as follows:

***protocol://host:port/resource?query=action&filter=10***

The Scalar i6000, i3 and i6 communication protocol is either http or https. The host is the library domain name or library IP address, and the port defines the port number on which the web service request is requested, 80 for http and 443 for https.

While the host and port represent the library network location, the resource defines the web service resource request which consists of text separated by “/” characters to further define unique resource requests.

Optional query parameters are identified by the “?” character which separates the resource from the query strings. Query parameters are name value pairs delimited by the “&” character to allow multiple query string definitions.

## 1.3 Representation-Oriented Resources

Each resource can be represented in different formats. Different platforms require different formats; browsers use Hypertext Markup Language (HTML), JavaScript uses JavaScript Object Notation (JSON) and JAVA may require Extensible Markup Language (XML).

The HTTP communication protocol defines the representation in the message body of the request or response. The message body can return data in any format and the Content-Type header of the HTTP request and response informs the client or server of the message body format.

The library typically uses text/plain, application/xml and application/json. Depending on the request, it also supports application/x-tar, application/octet-stream and multipart/form-data for transferring binary or text data.

## 1.4 Uniformed, Constrained Request Interfaces

A small set of well-defined methods/operations manipulate library resources. Create, Read, Update, and Delete (CRUD) operations are performed via http methods POST, GET, PUT, and DELETE:

- POST is used to create a new resource, either permanently, or temporarily, such as requesting a robot operation. The request message body contains the details for the new resource to be created.
- GET is used to retrieve resource information.
- PUT is used to update/modify a resource. The request message body contains the information needed to update the resource.
- DELETE is used to remove an existing resource.

## 2. Request and Response Interface Description

### 2.1 General

As described earlier, clients use HTTP or HTTPS as the application protocol to make requests to the Scalar i6000/i3/i6 Web Services (WS) server. A client request identifies the resource URI, and any query parameters, and the library responds with status and/or request data.

The Scalar i6000, i3 and i6 defines a base URI which, by itself, provides library identification information, and also serves as the starting resource URI for all additional Web Services URI requests. The base URI is defined as follows:

**HTTP(S)://LIBRARY-NAME-or-IP/aml**

HTTP and HTTPS define unsecure or secure communication requests, respectively. The base URI identifies the library network location where library resources can be accessed. URIs are defined with intuitive naming conventions using a directory style structure.

### 2.2 URI Examples

To illustrate the use of Scalar i6000/i3/i6 URIs, consider the following URI to interact with logical library partition resources for a tape library with domain name *myLibrary*:

**https://myLibrary/aml/partitions**

The above URI references all configured partition resources. A particular partition resource is referenced with a specific partition name:

**https://myLibrary/aml/partition/{name}**

The "{name}" URI path template represents the name of the partition resource being requested.

To limit partition resource information, query strings are added to the URI. In the following example, you can retrieve a list of storage segments in frame 2 that belong to the partition with the given '{name}' LL1.

**https://myLibrary/aml/partition/LL1/segments?type=storage&frame=2**

### 2.3 Web Services Request Examples

The requesting client accesses and manipulates library resources with the HTTP methods POST, GET, PUT and DELETE. These methods are included in the HTTP request header.

To illustrate, a *GET http://mylibrary/aml/partitions* request results in the following HTTP header data:

```
GET http://mylibrary/aml/partitions HTTP/1.1
Host: user@company.com
User-Agent: Mozilla/5.0
Content-type: text/plain
Accept: application/xml, application/json
```

The library web server response message is similar and contains the HTTP version being used, a response code, a short message that explains the response code, a variable set of optional headers and an optional message body.

```
HTTP/1.1 200 OK
Content-Type: application/xml
Server: Jetty(7.9.2 v20120308)
Content-Length: 870
```

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partitionList xmlns:ns2="http://automatedMediaLibrary/">
  <partition>
    <name>Test Partition</name>
    <type>1</type>
    <driveDomainType>6</driveDomainType>
    <storageSlotCount>300</storageSlotCount>
    <driveCount>2</driveCount>
    <ieSlotCount>12</ieSlotCount>
    <xieSlotCount>0</xieSlotCount>
    <ampExtensionsCount>0</ampExtensionsCount>
    <mediaCount>209</mediaCount>
    <barcodeReporting>4</barcodeReporting>
    <vendorId>1</vendorId>
    <productId>3</productId>
  </partition>
</ns2:partitionList>
```

The response body in the above example contains a list ("*<ns2:partitionList>*" root element) of partition resources represented as XML data. The partition resources are defined as data objects which represent the library's logical library partition configuration. The example shows an XML response, but as explained earlier, the data format of the message body could have been JSON and in this case, due to the HTTP request header containing the statement **Accept: application/xml, application/json** the library will report the data as requested either in XML or JSON.

The response message identifies the response type in the response message body via the "Content Type" or "Media Type" statement as to what data format is reported. In this particular case the requested resource supports XML (default) as well as a JSON format, however per request and default response, the XML format is returned, identified via the statement **Content-Type: application/xml**.

The Scalar i6000/i3/i6 supports the following formats:

- text/plain,
- application/xml,
- application/json,
- application/octet-stream,
- multipart/form-data, and
- application/x-tar

## 2.4 Web Services Response Code Objects

Typically, requests that perform creation or deletion operations (POST, DELETE methods) will receive a response code object as defined below:

```
<ns2:WSResultCode xmlns:ns2="http://automatedMediaLibrary/">
  <code>200</code>
  <description>OK</description>
  <summary>Operation Completed Successfully</summary>
  <action>Logout</action>
  <customCode>0</customCode>
</ns2:WSResultCode>
```

The Scalar i6000/i3/i6 supports the above WSResultCode object which contains the HTTP result code in the HTTP response. In the above case, the code “200” is reporting a successful request, a brief description of this code, such as “OK”, a summary of the result, such as “*Operation Completed Successfully*”, the action that was requested, such as “*Logout*” and an optional custom code that can further describe the result in certain contexts.

While resource object requests may report a single object or a list of objects, some requests may return plain text that are not resource object representations but report single scalar values. An example would be a request to retrieve the current date configured on the library:

**GET HTTP://mylibrary/aml/system/dateTime/date**

The following is returned in the response body:

**“2012-08-23”**

Typically, a PUT request will return the modified resource.

### 2.4.1 Response Codes

The response header contains an HTTP status code that reports the status of the request. These status codes are part of the HTTP standard. The library supports the following status codes:

## **200 OK**

The request has succeeded. The information returned with the response is dependent on the method used in the request, for example:

GET an entity corresponding to the requested resource is sent in the response.

PUT returns the modified entity as if a GET had requested it.

POST an entity describing or containing the result of the action.

## **201 Created**

The request has been fulfilled and resulted in a new resource being created.

Example: A request has been initiated, a new object has been created and the URI to the new resource can be found in the response header Location value.

## **202 Accepted**

The request has been accepted, this is an asynchronous operation.

Example: A request has been initiated, but has not completed yet. Status polling will allow status testing to determine progress and eventual result codes.

## **400 Bad Request**

The request could not be understood by the server due to malformed syntax.

Example: the URI and method are correct, but a request parameter is incorrect, or the JSON or XML is invalid.

## **401 Unauthorized**

The request requires a valid user login session.

Example: The user session expired; a login is required again.

## **403 Forbidden**

The request requires a valid login and the user needs to have access to the requested resource.

Example: Try to create a resource that already exists, or the request is not allowed for the current user role.

## **404 Not Found**

The server has not found anything matching the Request-URI.

Example: The URI and media type are correct, but an identified resource is not found or no longer valid. The following URI “aml/partition/{name}” uses a path template “name”, which should represent a valid configured partition name.

## **405 Method Not Allowed**

The method specified in the Request-Line is not allowed for the resource identified by the Request-URI.

Example: The URI is supported, but the method requested (GET, POST, PUT, or DELETE) is not supported.

#### **412 Precondition Failed**

The request is good, but some license or configuration setting is preventing the request from completing.

Example: Email a report when the email server is not configured or the required license is not installed.

#### **415 Unsupported Media Type**

The server is refusing to service the request because the entity of the request is in a format not supported by the requested resource for the requested method.

Example: The Content-Type (Media Type) header is not correct in the request message. That is, the WS request is expecting application/xml or application/json.

#### **500 Internal Server Error**

The server encountered an unexpected condition which prevented it from fulfilling the request.

Example: The HTTP request was determined to be valid, but the requested operation failed.

#### **501 Not Implemented**

The server does not recognize the request method, lacks the ability to fulfill the request or does not support the functionality required to fulfill the request. This is the appropriate response when the server does not recognize the request method and is not capable of supporting it for any resource.

Example: The HTTP request is valid, but functionality has not been configured or implemented.

#### **503 Service Unavailable**

The server is currently unable to handle the request due to a temporary overloading or maintenance of the server. The implication is that this is a temporary condition which will be alleviated after some delay. If known, the length of the delay MAY be indicated in a Retry-After header. If no Retry-After is given, the client SHOULD handle the response as it would for a 500 response.

Example: The request is not allowed due to a service user being logged in to perform maintenance.

## **2.5 Cookies**

A successful login to the WS interface responds with a session cookie in the response header data. This cookie will need to be used on each successive http/https request for request authentication purposes after the initial login.

## **2.6 Cache Controls**

All responses have cache controls turned off. No caching mechanisms are provided through the WS interface.

## 3. Web Services Application Programming Interface

### 3.1 Resource Tables

All library resource URIs are defined within tables in the following sections. A description precedes each table and summarizes the resource and/or what the interface provides. It may also describe some differences between supported library models and whether the resource is supported by a particular library model. Table entries provide information as follows:

- the URI to a particular resource.
- the supported CRUD methods, GET, POST, PUT and DELETE.
- request data objects (XML or JSON), used with most PUT and POST methods.
- response data objects, resources, primarily represented in XML and JSON.
- the Content-type (Media Types) supported for that resource.
- any Location URIs for newly created objects.
- any parameter query strings, and
- the possible response codes.

#### 3.1.1 Table Entry Explanations

##### 3.1.1.1 URI

| URI | aml/drives |
|-----|------------|
|-----|------------|

The first row of a table is the URI. The URI is a unique identifier to a resource or a list of resources. The above *aml/drives* URI points to configured drive resources. When a client makes a request, it will use this partial URI to build the full URI that is needed to complete the request. For example, if a client wanted to GET a list of drives configured in a library whose domain name is *TEST*, the request URI would be:

<http://TEST/aml/drives>

##### 3.1.1.2 Method

| Method | POST, GET, PUT or DELETE |
|--------|--------------------------|
|--------|--------------------------|

The Method row lists the available request method(s) for the URI. Each URI may support all or a subset of the defined CRUD methods.

##### 3.1.1.3 User Role Access

| User Role Access | Admin, Service and User |
|------------------|-------------------------|
|------------------|-------------------------|

The User Role Access list the user roles that have access to the given interface. The supported user roles are 'Admin', 'Service' and 'User'.

### 3.1.1.4 Version

|                |                             |
|----------------|-----------------------------|
| <b>Version</b> | <b>700(i6k), 110(i3/i6)</b> |
|----------------|-----------------------------|

The version of code when the interface was first supported. The table only shows the first 3 digits of the code release. In the above example the 700 represents the Scalar i6k code release 700Q.GS22301 and the 110 represents the Scalar i3/i6 code release 110G.GS185.

### 3.1.1.5 Request/Response Header

|                        |                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Request Header</b>  | <b>Content-Type: text/plain, application/xml, application/json, multipart/form-data</b>             |
| <b>Response Header</b> | <b>Content-Type: application/xml, application/json, application/octet-stream, application/x-tar</b> |

The Request Header and Response Header fields describe what data formats are expected or reported.

#### 3.1.1.5.1 Accept

The Accept header is used in an HTTP request to inform the server what Content-Type it expects in the response body. The library web server must support the requested Content-Type, of course, and the 'Header Response' table row specifies the supported content types. Most the requests support the Content-types 'application/xml' and 'application/json' where the default is 'application/xml'.

#### 3.1.1.5.2 Content-Type/Media Type

The Content-Type defines the content format contained in the body of the HTTP request or response. The Media Type for **Requests** only apply to POST and PUT Methods and the following types are supported:

- **text/plain** – The client has inserted some plain text in the body of the request. This text is user to indicate some change that needs to be made to a resource. An example of this would be to change a partitions mode online/offline. If the client wanted to take a partition offline, they would insert a "2" in the body of the request (see Table 175: GET aml/partition/{name}/mode.)
- **application/xml** – The content of the request body is Extensible Markup Language (XML) and this XML describes a resource as an object. This is used to update an existing resource or create a new resource.
- **application/json** – The content of the request is JavaScript Object Notation (JSON). The JSON describes the resource that needs to be update or created. When a Content-Type Request is defined as "application/xml, application/json" this means that the Web Service server is expecting XML since it is reported first, but it can also accept JSON. If the client sends the resource representation as JSON they need to tell the server to expect JSON. This is done by adding the 'Content-Type':

application/json' header to the request. Most of the URI interfaces support both XML and JSON.

- **multipart/form-data** – This Content-Type is used to send file binary data to the Web Server. Form data is made of a key, value pair, where the key is an identifier and the value is the file data. For example, this type is currently used to upload library and drive firmware to the library (see Table 363: GET aml/system/software).

The Content-Type for **Responses** apply to all request methods and the following types are supported:

- **text/plain** – The client HTTP response body will contain text. This is typically used to report a specific property of a resource. For example, to find the mode of a partition the response body will contain a "1" or "2" (Online/Offline) (see Table 175: GET aml/partition/{name}/mode).
- **application/xml** – The content of the response body is XML and this XML represents the resource(s) as an object or the WSResultCode.
- **application/json** – The content of the response is JavaScript Object Notation (JSON). The requested resource is represented as a JSON object. When a Content-Type Response is defined as "application/xml, application/json" this means that the Web Service response will be XML by default, since it is listed first. If the client wants the response to be represented as a JSON object, then the client must add 'Accept: application/json' to the header of the HTTP request.
- **application/octet-stream** – The response body contains byte data, this could be readable text data or binary data.
- **application/x-tar** – The response body contains a compressed tar file.

#### 3.1.1.5.3 Location

This response header field is used to convey the URI of a newly created resource and is typically used in conjunction with a HTTP response status code of 201. For example, if a user creates a new partition the response header would contain a location reference like "Location: http://library/partition/LL1" where 'LL1' is the name of the new partition.

#### 3.1.1.5.4 Content-Disposition

This response header field is used to notify the client, specifically a browser client, that the response will contain an attachment. This response header will trigger the browser to use its default mechanism to save any file attachments/downloads. This header is typically used when the client browser needs to save library data. This field is mainly listed when save query parameters are specified. The format of the header field is "Content-Disposition: attachment; filename="the file name to apply for the save operation". If the 'save=name' name/value pair is not specified, a default file name will be applied.

### 3.1.1.6 Parameters

|            |  |
|------------|--|
| Parameters |  |
|------------|--|

Parameters are primarily used to filter the response from a GET request. The client sends supported query parameters as part of the URI request.

For example, to filter the aml/drives URI to return available unassigned drives only (drives currently not owned by a partition), the following request applies:

GET <http://TEST/aml/drive?status=available>

Multiple query parameters can be used if the URI interface supports them. In the case of the aml/media URI interface, to filter media for a particular partition, such as LL1, and only report media that are in drives, the following request applies:

<http://TEST/aml/media?partition=LL1&location=drive>

### 3.1.1.7 Version

|         |          |
|---------|----------|
| Version | 700(i6k) |
|---------|----------|

The Version identifies when the interface was first introduced. In the above example, the version '700' is the short form of the official Scalar i6k release '700Q.GS22301'.

### 3.1.1.8 Response Code

|               |                             |
|---------------|-----------------------------|
| Response Code | Supported HTTP Status codes |
|---------------|-----------------------------|

The Response Code identifies all supported command status codes for the request.

**Note:** Response codes 400, 401, 405, 415 or 500 are not listed separately here since any interface request can encounter such HTTP status code.

### 3.1.1.9 Request Data

|              |  |
|--------------|--|
| Request Data |  |
|--------------|--|

The Request Data reports the resource object or singleton data expected by the library web server in the body of the HTTP request.

### 3.1.1.10 Response Data

|               |  |
|---------------|--|
| Response Data |  |
|---------------|--|

The Response Data details the data returned in the body of the HTTP response.

## 4. Library Resources

### 4.1 Overview

Typically, library command requests require a valid user login. Operations are supported based on login user role, such that any user can perform read operations, with few exceptions for user ID retrieval, and admin and service user's will be able to perform all read, as well as create, update and delete operations.

To allow library discovery and frequent status monitoring, a read of the "aml" resource (see Table 1) allows library detection without valid login sessions (no authentication needed).

Operational functionality, pre-requisite conditions, dependencies and license requirements are documented in product documentation and not always identified for each listed method as such information could be too repetitive.

A summary of various background information is listed in the sections below.

### 4.2 Access Groups, host, drive and partition access.

The following interfaces under "**aml/access**" (supported by the Scalar i6k only) provide the ability to control which hosts can access which drives and partitions configured in the library. By default, all drives and partitions can be accessed by all hosts connected to the SAN. However, Quantum-branded libraries support a *Path Failover/Native Storage Networking* (SNW) license which once applied to a drive, prevents device access and requires access configurations to define which hosts may access the drive or partition (control path).

To grant host access to a device (drive or partition), an access group resource must first be created (see Table 3: GET aml/access/groups). Once groups are defined, hosts must be added to an access group so that access can then be assigned to devices (see Table 17: GET aml/access/hosts, and Table 12: POST aml/access/group/{name}/hosts).

**NOTE:** A host can only belong to a single access group.

Drive devices and partitions (hosted by a control path drive) are added to the access groups to define the host access to the drive or partition (see

Table 2: GET aml/access/devices and Table 7: POST aml/access/group/{name}/device).

### 4.3 Partition Resource Assignments

The following interface provides the capability to add and delete Drives, Storage, Import/Export (IE) and Extended IE (XIE) slots to and from a partition. Each of these resources are presented as a segment where Storage, IE and XIE segments contain either 6 slot magazine segments (Scalar i6k) or single slot segments (Scalar i3/i6). Drive segments contain a single drive element. To determine the location and type of a segment, use the "coordinate" element of the segment object. If a segment is removed/deleted from a partition, it is reassigned back to the physical library's pool of

unassigned segments and hereby available for assignment to any other partition. To find all segments in the physical library, use the URITable 233: GET aml/physicalLibrary/segments. This URI provides query parameters to filter for segment types, segment states, etc..

## 4.4 Partition Control Path Configuration

Standard partitions require a control path to support host connection for SCSI Medium Changer (SMC) control commands. The Scalar i6k, Scalar i6 and Scalar i3 tape libraries do not automatically assign a control path when a partition is created. While the Scalar i3 and Scalar i6 support control paths via drives that provide the physical interface, The Scalar i6k supports partition control paths via FC I/O blade connections or an Ethernet Expansion Blade connected LTO 5 and higher tape drive.

A feature license is not required when configuring a single control path to a partition; however, redundant control path failover configurations require a Path Failover / Storage Networking (SNW) license in the Scalar i6k, and depending on configuration setting a Path Failover or Advanced Path Failover license in the Scalar i3 and Scalar i6 tape library.

Basic Control Path Failover (BCPF) is supported only by the Scalar i6k with HP LTO5 and/or LTO 6 FC drives. This configuration enables an alternate control path via a second drive when the preferred control path via the primary control path drive fails.

Advanced Control Path Failover (ACPF) is supported with IBM and HP LTO drives requiring IBM or HP LTO 6 and higher FC drive generations. This configuration enables alternate control paths via configured redundant control path drives when the preferred control path connection fails. ACPF requires either an IBM drive or HP drive supported SCSI device driver on the attached host(s) to select the respective alternate path. A partition can support ACPF with either HP drives or IBM drives, but not a mixed solution as the ACPF with HP drives configures a primary and secondary/redundant control path connections, while ACPF with IBM drives configures all IBM control path drives as primary drives.

Multi-Path Failover (MPF) enables all configured primary control path drives to accept control commands. This configuration requires host application support for proper partition access.

## 4.5 Drive Data Path Configuration

Drives with two FC ports support configurations of different redundancy/failover settings. While the Scalar i6k requires a *Path Failover / Storage Networking (SNW)* license to configure supported Basic Data Path Failover, Advanced Data Path Failover or Multi-Path Failover configurations, the Scalar i3 and Scalar i6 support two licenses for specific configuration options, either a *Path Failover* license for Multi-Path Failover configurations or an *Advanced Path Failover* license for an Advanced Path Failover configuration.

Basic Data Path Failover (BDPF) is supported only by the Scalar i6k with dual ported HP LTO5 and LTO 6 FC drives only. This configuration enables an alternate data path when a preferred data path fails.

Advanced Data Path Failover (ADPF) is supported with IBM and HP LTO drives requiring dual ported IBM or HP LTO 6 and higher FC drive generations. This configuration enables an alternate data path when the preferred connection fails, but requires either an IBM drive or HP drive supported SCSI device driver on the attached host(s) to select the respective alternate path.

Multi-Path Failover (MPF) enables both drive ports and allows I/O via any connection link. This configuration requires host application support for proper drive access.

**Note:** The Scalar i3 with single-porting half-high drives do not support data path failover configurations.

## 4.6 Extended Data Life Management

The Extended Data Lifecycle Management (EDLM) requires an EDLM license. This feature is supported by the Scalar i6k and Scalar i6. One license covers the entire library.

One library-managed partition is required for the media scans. This library-managed partition is accessible only by a library administrator. It is not presented to any other application. The library-managed partition is assigned its own dedicated resources and EDLM scans may be performed for tapes configured for the EDLM partition or from other partitions configured for EDLM policies. Cartridges are moved into EDLM-scanning drives residing in the EDLM library managed partition and once scanned, tapes are returned to their original locations.

Automatic media scanning policies may be configured by partition. Each partition can have its own unique set of media scanning and action policies. Optionally, StorNext Storage Manager connections may be configured to trigger media scans and automatically copy data from suspect or failed tapes.

## 4.7 Partition configuration and operations

The following URI's provide the ability to change a partition's configuration and perform certain operations. To create a new partition, you must use the following interface: Table 150: POST aml/partitions. This interface does not allow the user to select specific storage or I/E slots or drives; the user can only specify the number of slots or drives they want assigned to the new partition. The interface does not provide for policies such as drive cleaning or automatic drive firmware leveling. If a user wants to create a partition with specific drive, IE and storage slot resources and configure partition policies, they will need to issue multiple Web Service interface requests.

For example, to create a standard partition with name “SalesPartition”:

- Use the interface: Table 150: POST aml/partitions and specify only the required elements in the XML request.
- After this request has completed successfully, use the interface: Table 207: POST aml/partition/{name}/segments, interface to add specific slots, I/E and drives to the partition, see the interface for more details.
- To set up a drive cleaning policy for the partition use the following interface: Table 196: POST aml/partition/{name}/policy/driveCleaning; this interface also provides the capability to update and delete a drive cleaning policy from a partition.

The partition drive leveling policy is provided using the interface:

- Table 199: GET aml/partition/{name}/policy/driveLeveling; this interface can also be used to remove selective firmware files from partition drive leveling (see interface for more information). To modify the partition name, barcode reporting, vendor ID and product ID in one request you could use the following interface: Table 162: PUT aml/partition/{name}.

## 4.8 Drive Cleaning Policies

Drive cleaning policies are configured on a per-partition basis. While IBM drives request drive cleaning operations per internal algorithms, HP LTO drives allow for selective configuration options to request cleaning after a configured tape motion hour interval. Library-managed EDLM partitions also allows for a number of mount count configuration to trigger drive cleaning operations once the selected mount count interval is reached.

Drive cleaning configurations support manual, library-initiated automatic cleaning, and application managed cleaning configurations. If hosts are performing cleaning (application managed), the library partition should not get configured for library-initiated, automatic cleaning too.

**Note:** The Scalar i6k modified support for drive cleaning policies as of release i12.1 to no longer require the use of the POST or DELETE method to configure or remove a drive cleaning policy for a partition. An element “enable” has been added to the driveCleaningPolicy object that determines if a policy is configured or not for a particular partition(driveCleaningPolicy.enable). The configuration of driveCleaningPolicy.driveCleaning.motionTime applies only to HP LTO5 drives or greater) and driveCleaningPolicy.driveCleaning.mountCount applies only to EDLM partitions.

## 4.9 IPv6 Network Configuration

The IPv6 configuration information and setup is handled differently than IPv4, since an interface (eth0 or eth2) can be configured to have multiple IPv6 addresses. With IPv4 an interface can only have one IP address.

To make a configurations request, see Table 288: GET aml/system/network/configurations, a netConfigurationList is returned containing netConfiguration objects:

```
<netConfiguration>
  <name>eth0 or eth2</name>
  <version>1</version> 1(IPv4) or 2(IPv6)
  <hostName>dvt4</hostName> The hostname assigned to this interface
  <type>1</type> -1(Unknown), 0(None), 1(Static), 2(DHCP), 3(DHCP6) and 4(Static and DHCP6)
  <netMask>255.255.248.0</netMask>
  <netGateway>10.20.168.1</netGateway>
  <ipAddress>10.20.171.14</ipAddress>
</netConfiguration>
```

For IPv4 netConfiguration objects, version element = 1, the type element can only be 1(Static) or 2(DHCP) and the netMask, netGateway and ipAddress elements will always contain a valid IPv4 address.

With IPv6 netConfiguration objects, version element =2, there will be only one object that will have a type element of 0(None), 1(Static), 3(DHCP6) or 4(Static and DHCP6) and all the rest of the objects will have a type element of -1(Unknown). The reason for -1 (Unknown) type is it cannot determine how this address was created: Manually, DHCP6, Stateless Address Autoconfiguration.

The netConfiguration object that contains a type element that is NOT -1 is used to determine if a static IPv6 address was configured (Manual Configuration) for this interface, whether DHCP6 was configured, whether both static and DHCP6 was configured or whether none, Static nor DHCP6 was configured. If the type is 1 or 4, the object will contain an IP address, which will be the static IP address.

The following object reports that both a static address and DHCP6 is configure on interface eth0, the type element is 4, and the ipAddress reported is the static IP.

```
<netConfiguration>
  <name>eth0</name>
  <version>2</version>
  <hostName>dvt4</hostName>
  <type>4</type>
  <netMask>64</netMask>
  <netGateway>2001::</netGateway>
  <ipAddress>2001::abcd/64</ipAddress>
</netConfiguration>
```

When you configure IPv6 (Static, DHCP, Both or None) for a particular interface (eth0 or eth2) use the netConfiguration object (see Table 290: PUT aml/system/network/configuration/{name}/{version}). Each time you request an update of the interface, you must specify all the values you want for the new configuration.

**Note:** When configuring a static IPv6 address on interface eth2, you do not need to supply a netGateway element. The gateway is not required.

## 5. Web Services API Request Summary

**Table 1: GET aml/**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the library ping resource. The ping can be requested without logging in to the web services server (no authentication is needed). The ping can be used to discover the libraries on your network.

| URI              | aml/                                             |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 148: ping                             |

**Table 2: GET aml/access/devices**

**Product Support:** Scalar i6k

**Description:** Retrieve a list of configured Access Device resources that could be added to an Access Group.

An access device is a drive or partition.

For a drive access device, the drive must be HP LTO 5 or greater, belong to a partition, have an SNW license applied, must be in P2P/Fabric mode and be connected to an Ethernet Expansion Blade.

For a partition access device, the partition must have a control path drive and the drive must have the above prerequisites.

| URI              | aml/access/devices                               |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 1: accessDeviceList                   |

**Table 3: GET aml/access/groups****Product Support:** Scalar i6k**Description:** Retrieve a list of Access Group resources.

| URI              | <i>aml/access/groups</i>                         |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 3: accessGroupList                    |

**Table 4: GET aml/access/group/{name}****Product Support:** Scalar i6k**Description:** Retrieve the Access Group resources whose name is given by the URI path template “name”.

| URI              | <i>aml/access/group/{name}</i>                   |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 4: accessGroup                        |

**Table 5: POST aml/access/group/{name}****Product Support:** Scalar i6k**Description:** Create a new Access Group with the name given by URI path template “name”. To create a new access group with name “AG3”, use the following:  
aml/access/group/AG3.

| URI              | <i>aml/access/group/{name}</i> |
|------------------|--------------------------------|
| Method           | <b>POST</b>                    |
| User Role Access | Admin, Service                 |
| Version          | 700(i6k)                       |
| Parameters       | N/A                            |
| Request Header   | N/A                            |

| URI             | <i>aml/access/group/{name}</i>                   |
|-----------------|--------------------------------------------------|
| Request Data    | N/A                                              |
| Response Codes  | 200, 403, 404                                    |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 4: accessGroup                        |

**Table 6: DELETE *aml/access/group/{name}***

**Product Support:** Scalar i6k

**Description:** Delete Access Group with the name given by URI path template “name”.

| URI              | <i>aml/access/group/{name}</i>                   |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 7: POST *aml/access/group/{name}/device***

**Product Support:** Scalar i6k

**Description:** Add a new access device to the access group given by URI path template “name”. The <access> element must be set to true, otherwise access will not be granted on that port.

A partition accessDevice (type=2) is a drive that is configured as a control path drive (see Table 168: GET *aml/partition/{name}/controlPath*).

The following example would allow access on port 1 for the drive with serial number F001396025 to all hosts that belong to the given access group.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessDevice xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396025</serialNumber>
  <type>1</type>
  <port>
    <id>1</id>
    <access>true</access>
  </port>
</ns2:accessDevice>
```

| <b>URI</b>       | <b><i>aml/access/group/{name}/device</i></b>     |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 2: accessDevice                       |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 4: accessGroup                        |

**Table 8: PUT *aml/access/group/{name}/device***

**Product Support:** Scalar i6k

**Description:** Update the access device that belongs to the access group given by URI path template “name”.

The example below modifies access so the first port on the device will no longer be seen and the second port will be seen by all hosts in the access group.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessDevice xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396025</serialNumber>
  <type>1</type>
  <port>
    <id>1</id>
    <access>>false</access>
  </port>
  <port>
    <id>2</id>
    <access>>true</access>
  </port>
</ns2:accessDevice>
```

| <b>URI</b>       | <b><i>aml/access/group/{name}/device</i></b>     |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 2: accessDevice                       |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 4: accessGroup                        |

**Table 9: DELETE aml/access/group/{name}/device/{serialNumber}****Product Support:** Scalar i6k

**Description:** Remove the access device whose serial number is given by URI path template “serialNumber” from the access group given by URI path template “name”. This access device (drive or partition) will no longer be seen by hosts belonging to this access group.

| URI              | aml/access/group/{name}/device/{serialNumber}    |
|------------------|--------------------------------------------------|
| Method           | DELETE                                           |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 4: accessGroup                        |

**Table 10: GET aml/access/group/{name}/devices****Product Support:** Scalar i6k

**Description:** Retrieve the access devices configured for the access group whose name is given by URI path template “name”.

| URI              | aml/access/group/{name}/devices                  |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 1: accessDeviceList                   |

**Table 11: POST aml/access/group/{name}/devices****Product Support:** Scalar i6k

**Description:** Add the access device list to the access group whose name is given by URI path template “name”.

None of the access devices may already belong to the access group.

**Note:** Access is on a port basis so the access element of each port must be set to true to grant access to each port on the device. Not all devices have multiple ports.

| URI              | <i>aml/access/group/{name}/devices</i>           |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 1: accessDeviceList                   |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 4: accessGroup                        |

**Table 12: POST *aml/access/group/{name}/hosts***

**Product Support:** Scalar i6k

**Description:** Add a host to the Access Group resource whose name is given by the URI path template “name”.

The only element required in the host object is WWPN. All other elements will be ignored.

| URI              | <i>aml/access/group/{name}/hosts</i>             |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 92: host                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 4: accessGroup                        |

**Table 13: DELETE *aml/access/group/{name}/host/{WWPN}***

**Product Support:** Scalar i6k

**Description:** Delete a host whose WWPN is given by the URI path template “WWPN” from the Access Group resource whose name is given by the URI path template “name”.

To delete host with WWPN “1234ABCD:1234ABCD” from Access Group “AG2”, use the following URI:

`aml/access/group/AG2/host/1234abcd:1234abcd`

| URI              | <i>aml/access/group/{name}/host/{WWPN}</i>       |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 4: accessGroup                        |

**Table 14: GET *aml/access/host/{WWPN}***

**Product Support:** Scalar i6k

**Description:** Retrieve the host resource whose WWPN is given by URI path template “WWPN”. To get the host with WWPN “1234ABCD:1234ABCD” use the following:

*aml/access/host/1234ABCD:1234ABCD*

| URI              | <i>aml/access/host/{WWPN}</i>                    |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 92: host                              |

**Table 15: PUT *aml/access/host/{WWPN}***

**Product Support:** Scalar i6k

**Description:** Update the host resource whose WWPN is given by URI path template “WWPN”. This would be primarily used to change the host name and host type. The WWPN element is required to find the host that needs to be updated.

| URI              | <i>aml/access/host/{WWPN}</i>                    |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 92: host                              |
| Response Codes   | 200, 403, 404                                    |

| <b>URI</b>      | <b><i>aml/access/host/{WWPN}</i></b>             |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 92: host                              |

**Table 16: DELETE *aml/access/host/{WWPN}***

**Product Support:** Scalar i6k

**Description:** Delete the host whose WWPN is given by the URI path template “WWPN”. This will remove the host from the libraries host cached data. An online host (mode = 1) cannot be deleted.

| <b>URI</b>       | <b><i>aml/access/host/{WWPN}</i></b>             |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 17: GET *aml/access/hosts***

**Product Support:** Scalar i6k

**Description:** Retrieve a list of host resources that were seen on the SAN from configured tape drives that are connected to the SAN.

| <b>URI</b>       | <b><i>aml/access/hosts</i></b>                   |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 91: hostList                          |

**Table 18: POST aml/access/hosts****Product Support:** Scalar i6k**Description:** Create a new host resource.**Note:** This functionality is used primarily for testing purposes.

| <b>URI</b>       | <b>aml/access/hosts</b>                                                              |
|------------------|--------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                          |
| User Role Access | Admin, Service                                                                       |
| Version          | 700(i6k)                                                                             |
| Parameters       | N/A                                                                                  |
| Request Header   | Content-Type:application/xml or application/json                                     |
| Request Data     | See Figure 92: host                                                                  |
| Response Codes   | 201, 403                                                                             |
| Response Header  | Content-Type:application/xml or application/json<br>Location: aml/access/host/{wwpn} |
| Response Data    | See Figure 92: host                                                                  |

**Table 19: GET aml/access/licenses****Product Support:** Scalar i6k**Description:** Retrieve a list of drives that have an SNW license or are eligible to have an SNW license applied.

An eligible drive must be owned by a partition.

**Note:** Most features that use an SNW license, require the drive to:

1. be attached to an Ethernet Expansion Blade (EEB) or be a 2 port IBM drive and
2. be an HP or IBM LTO5 drive type generation or greater.

A drive that has an SNW license applied to it will have the drive.settings. license element with a value of 11.

| <b>URI</b>       | <b>aml/access/licenses</b>                       |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 29: driveList                         |

**Table 20: PUT aml/access/licenses**

**Product Support:** Scalar i6k

**Description:** Modify the SNW licenses for the drives in the requested driveList. The only drive elements required are the physicalSerialNumber or logicalSerialNumber and the settings.license.

To apply a license set the license element value to 11. To remove a license, set the license element to an empty string.

The example below applies a license to drive with serial number F001396043 and removes a license from the drive with serial number F00139603D.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396043</logicalSerialNumber>
    <settings>
      <license>11</license>
    </settings>
  </drive>
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <license></license>
    </settings>
  </drive>
</ns2:driveList>
```

When you apply an SNW license to a drive, that drive will no longer be seen on the SAN. The drive must then be configured in an Access Group before hosts can access the drive.

| URI              | aml/access/licenses                              |
|------------------|--------------------------------------------------|
| Method           | PUT                                              |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 29: driveList                         |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 29: driveList                         |

**Table 21: GET aml/access/license/{serialNumber}****Product Support:** Scalar i6k

**Description:** Retrieve the drive with serial number given by the URI path template “serialNumber”. This interface would be used to determine if the drive has an SNW license. Unlike the interface, Table 19: GET aml/access/licenses, the drive returned may not be eligible for an SNW license.

| URI              | aml/access/license/{serialNumber}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Version          | 700(i6k)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Parameters       | Query parameter names are “dataStore”. The valid value for the named parameter are as follows: <ul style="list-style-type: none"><li>dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is ‘0’. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for the Scalar i6k (added in version 739)</li></ul> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Response Codes   | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Response Data    | See Figure 30: drive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Table 22: POST aml/access/license/{serialNumber}****Product Support:** Scalar i6k

**Description:** Apply an SNW license to the drive with the serial number given by the URI path template “serialNumber”.

| URI              | aml/access/license/{serialNumber} |
|------------------|-----------------------------------|
| Method           | POST                              |
| User Role Access | Admin, Service                    |
| Version          | 700(i6k)                          |
| Parameters       | N/A                               |
| Request Header   | N/A                               |
| Request Data     | N/A                               |
| Response Codes   | 201, 403, 404                     |

| <b>URI</b>      | <b><i>aml/access/license/{serialNumber}</i></b>                                                 |
|-----------------|-------------------------------------------------------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json<br>Location: aml/access/license/{serialNumber} |
| Response Data   | See Figure 192: WSResultCode                                                                    |

**Table 23: DELETE *aml/access/license/{serialNumber}***

**Product Support:** Scalar i6k

**Description:** Remove an SNW license from the drive with the serial number given by the URI path template “serialNumber”.

You cannot remove an SNW license from a drive if it is currently configured for Data Path Failover or Control Path Failover.

| <b>URI</b>       | <b><i>aml/access/license/{serialNumber}</i></b>  |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 24: GET *aml/devices/blades/ethernet***

**Product Support:** Scalar i6k

**Description:** Retrieve a list of ethernetExpansionBlade (Ethernet Expansion Blades or EEBs) resources. EEBs provide the option for Ethernet connectivity to each LTO-5 or LTO-6 drive (for MCB-to-drive communication purposes only). The EEB provides a control path to the drive for commands as well as facilitates taking drive logs and downloading drive firmware.

| <b>URI</b>       | <b><i>aml/devices/blades/ethernet</i></b>        |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 71: ethernetExpansionBladeList        |

**Table 25: GET aml/devices/blade/ethernet/{serialNumber}****Product Support:** Scalar i6k**Description:** Retrieve an ethernetExpansionBlade resource whose serial number is given by the URI path template “serialNumber”.

| URI              | aml/devices/blade/ethernet/{serialNumber}        |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 72: ethernetExpansionBlade            |

**Table 26: GET aml/devices/blade/ethernet/{serialNumber}/operations/identify****Product Support:** Scalar i6k**Description:** Retrieve the EEB identify task whose serial number is given by URI path template “serialNumber”.

| URI              | aml/devices/blade/ethernet/{serialNumber}/identify |
|------------------|----------------------------------------------------|
| Method           | GET                                                |
| User Role Access | Admin, Service, User                               |
| Version          | 700(i6k)                                           |
| Parameters       | N/A                                                |
| Request Header   | N/A                                                |
| Request Data     | N/A                                                |
| Response Codes   | 200, 404                                           |
| Response Header  | Content-Type:application/xml or application/json   |
| Response Data    | See Figure 181: task                               |

**Table 27: POST aml/devices/blade/ethernet/{serialNumber}/operations/identify****Product Support:** Scalar i6k**Description:** Start the EEB identify task whose serial number is given by URI path template “serialNumber”. This starts the status LED on the EEB to flash rapidly.

| URI              | aml/devices/blade/ethernet/{serialNumber}/identify |
|------------------|----------------------------------------------------|
| Method           | POST                                               |
| User Role Access | Admin, Service                                     |
| Version          | 700(i6k)                                           |
| Parameters       | N/A                                                |

| <b>URI</b>      | <b><i>aml/devices/blade/ethernet/{serialNumber}/identify</i></b> |
|-----------------|------------------------------------------------------------------|
| Request Header  | N/A                                                              |
| Request Data    | N/A                                                              |
| Response Codes  | 200, 403, 404                                                    |
| Response Header | Content-Type:application/xml or application/json                 |
| Response Data   | See Figure 181: task                                             |

**Table 28: DELETE**  
***aml/devices/blade/ethernet/{serialNumber}/operations/identify***

**Product Support:** Scalar i6k

**Description:** Stop the EEB identify task whose serial number is given by URI path template “serialNumber”. This stops the status LED on the EEB from flashing rapidly.

| <b>URI</b>       | <b><i>aml/devices/blade/ethernet/{serialNumber}/identify</i></b> |
|------------------|------------------------------------------------------------------|
| Method           | <b>DELETE</b>                                                    |
| User Role Access | Admin, Service                                                   |
| Version          | 700(i6k)                                                         |
| Parameters       | N/A                                                              |
| Request Header   | N/A                                                              |
| Request Data     | N/A                                                              |
| Response Codes   | 200, 403, 404                                                    |
| Response Header  | Content-Type:application/xml or application/json                 |
| Response Data    | See Figure 192: WSResultCode                                     |

**Table 29: GET**  
***aml/devices/blade/ethernet/{serialNumber}/operations/powerCycle***

**Product Support:** Scalar i6k

**Description:** Retrieve the last request EEB power cycle task whose serial number is given by URI path template “serialNumber”.

| <b>URI</b>       | <b><i>aml/devices/blade/ethernet/{serialNumber}/powerCycle</i></b> |
|------------------|--------------------------------------------------------------------|
| Method           | <b>GET</b>                                                         |
| User Role Access | Admin, Service, User                                               |
| Version          | 700(i6k)                                                           |
| Parameters       | N/A                                                                |
| Request Header   | N/A                                                                |
| Request Data     | N/A                                                                |
| Response Codes   | 200, 404                                                           |
| Response Header  | Content-Type:application/xml or application/json                   |
| Response Data    | See Figure 181: task                                               |

**Table 30: POST**  
**aml/devices/blade/ethernet/{serialNumber}/operations/powerCycle**

**Product Support:** Scalar i6k

**Description:** Power cycle the EEB whose serial number is given by URI path template “serialNumber”. This is an asynchronous request, use the interface, Table 29: GET *aml/devices/blade/ethernet/{serialNumber}/operations/powerCycle*, to determine when the power cycle has finished.

| URI              | <i>aml/devices/blade/ethernet/{serialNumber}/powerCycle</i> |
|------------------|-------------------------------------------------------------|
| Method           | <b>POST</b>                                                 |
| User Role Access | Admin, Service                                              |
| Version          | 700(i6k)                                                    |
| Parameters       | N/A                                                         |
| Request Header   | N/A                                                         |
| Request Data     | N/A                                                         |
| Response Codes   | 200, 403, 404                                               |
| Response Header  | Content-Type:application/xml or application/json            |
| Response Data    | See Figure 181: task                                        |

**Table 31: GET aml/devices/blades/fibreChannel**

**Product Support:** Scalar i6k

**Description:** Retrieve a list of fcBlade (FC IO Blades) resources. There is one Fibre Channel (FC) I/O blade type supported: 7404 that auto-negotiates up to 4 Gbps. The 7404 FC I/O blade has an embedded controller that provides connectivity and features that enhance the performance and reliability of tape operations. It also provides two host communication ports and four connection ports to drives.

| URI              | <i>aml/devices/blades/fibreChannel</i>           |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 78: fcBladeList                       |

**Table 32: GET aml/devices/blade/fibreChannel/{serialNumber}**

**Product Support:** Scalar i6k

**Description:** Retrieve the FC IO Blade whose serial number is given by URI path template “serialNumber”.

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/devices/blade/fibreChannel/{serialNumber}</i></b> |
| Method           | <b>GET</b>                                                  |
| User Role Access | Admin, Service, User                                        |
| Version          | 700(i6k)                                                    |
| Parameters       | N/A                                                         |
| Request Header   | N/A                                                         |
| Request Data     | N/A                                                         |
| Response Codes   | 200, 404                                                    |
| Response Header  | Content-Type:application/xml or application/json            |
| Response Data    | See Figure 79: fcBlade                                      |

**Table 33: GET**  
***aml/devices/blade/fibreChannel/{serialNumber}/operations/identify***

**Product Support:** Scalar i6k

**Description:** Retrieve the FC IO Blade identify task whose serial number is given by URI path template “serialNumber”.

|                  |                                                                                 |
|------------------|---------------------------------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/devices/blade/fibreChannel/{serialNumber}/operations/identify</i></b> |
| Method           | <b>GET</b>                                                                      |
| User Role Access | Admin, Service, User                                                            |
| Version          | 700(i6k)                                                                        |
| Parameters       | N/A                                                                             |
| Request Header   | N/A                                                                             |
| Request Data     | N/A                                                                             |
| Response Codes   | 200, 404                                                                        |
| Response Header  | Content-Type:application/xml or application/json                                |
| Response Data    | See Figure 181: task                                                            |

**Table 34: POST**  
***aml/devices/blade/fibreChannel/{serialNumber}/operations/identify***

**Product Support:** Scalar i6k

**Description:** Start the FC IO Blade identify task whose serial number is given by URI path template “serialNumber”. This starts the status LED on the IO Blade to flash rapidly.

|                  |                                                                                 |
|------------------|---------------------------------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/devices/blade/fibreChannel/{serialNumber}/operations/identify</i></b> |
| Method           | <b>POST</b>                                                                     |
| User Role Access | Admin, Service                                                                  |
| Version          | 700(i6k)                                                                        |
| Parameters       | N/A                                                                             |
| Request Header   | N/A                                                                             |
| Request Data     | N/A                                                                             |
| Response Codes   | 200, 403, 404                                                                   |

|                 |                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>URI</b>      | <b><i>aml/devices/blade/fibreChannel/{serialNumber}/operations/identify</i></b>                                                    |
| Response Header | Content-Type:application/xml or application/json<br>Location:<br>aml/devices/blade/fibreChannel/{serialNumber}/operations/identify |
| Response Data   | See Figure 181: task                                                                                                               |

**Table 35: DELETE**  
***aml/devices/blade/fibreChannel/{serialNumber}/operations/identify***

**Product Support:** Scalar i6k

**Description:** Stop the FC IO Blade identify task whose serial number is given by URI path template “serialNumber”. This stops the status LED on the IO Blade from flashing rapidly.

**Note:** This interface is only supported by i6k.

|                  |                                                                                 |
|------------------|---------------------------------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/devices/blade/fibreChannel/{serialNumber}operations//identify</i></b> |
| Method           | <b>DELETE</b>                                                                   |
| User Role Access | Admin, Service                                                                  |
| Version          | 700(i6k)                                                                        |
| Parameters       | N/A                                                                             |
| Request Header   | N/A                                                                             |
| Request Data     | N/A                                                                             |
| Response Codes   | 200, 403, 404                                                                   |
| Response Header  | Content-Type:application/xml or application/json                                |
| Response Data    | See Figure 192: WSRetCode                                                       |

**Table 36: GET**  
***aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle***

**Product Support:** Scalar i6k

**Description:** Retrieve the FC IO Blade power cycle task whose serial number is given by URI path template “serialNumber”.

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle</i></b> |
| Method           | <b>GET</b>                                                                        |
| User Role Access | Admin, Service, User                                                              |
| Version          | 700(i6k)                                                                          |
| Parameters       | N/A                                                                               |
| Request Header   | N/A                                                                               |
| Request Data     | N/A                                                                               |
| Response Codes   | 200, 404                                                                          |
| Response Header  | Content-Type:application/xml or application/json                                  |
| Response Data    | See Figure 181: task                                                              |

**Table 37: POST****[aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle](#)****Product Support:** Scalar i6k**Description:** Start the FC IO Blade power cycle task whose serial number is given by URI path template “serialNumber”. This operation will power cycle the IO Blade.

| URI              | <b><a href="#">aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle</a></b>                                                           |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                                                                          |
| User Role Access | Admin, Service                                                                                                                                       |
| Version          | 700(i6k)                                                                                                                                             |
| Parameters       | N/A                                                                                                                                                  |
| Request Header   | N/A                                                                                                                                                  |
| Request Data     | N/A                                                                                                                                                  |
| Response Codes   | 200, 403, 404                                                                                                                                        |
| Response Header  | Content-Type:application/xml or application/json<br>Location:<br><a href="#">aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle</a> |
| Response Data    | See Figure 181: task                                                                                                                                 |

**Table 38: GET****[aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot](#)****Product Support:** Scalar i6k**Description:** Retrieve the FC IO Blade reboot task whose serial number is given by URI path template “serialNumber”.

| URI              | <b><a href="#">aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot</a></b> |
|------------------|----------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                             |
| User Role Access | Admin, Service, User                                                                   |
| Version          | 700(i6k)                                                                               |
| Parameters       | N/A                                                                                    |
| Request Header   | N/A                                                                                    |
| Request Data     | N/A                                                                                    |
| Response Codes   | 200, 404                                                                               |
| Response Header  | Content-Type:application/xml or application/json                                       |
| Response Data    | See Figure 181: task                                                                   |

**Table 39: POST****[aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot](#)****Product Support:** Scalar i6k**Description:** Start the FC IO Blade reboot task whose serial number is given by URI path template “serialNumber”. This operation will reboot the IO Blade.

| <b>URI</b>       | <b><i>aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot</i></b>                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                                                      |
| User Role Access | Admin, Service                                                                                                                   |
| Version          | 700(i6k)                                                                                                                         |
| Parameters       | N/A                                                                                                                              |
| Request Header   | N/A                                                                                                                              |
| Request Data     | N/A                                                                                                                              |
| Response Codes   | 200, 403, 404                                                                                                                    |
| Response Header  | Content-Type:application/xml or application/json<br>Location:<br>aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot |
| Response Data    | See Figure 181: task                                                                                                             |

**Table 40: GET aml/devices/blades/firmware**

**Product Support:** Scalar i3, Scalar i6

**Description:** Retrieve the blade firmware resource list.

| <b>URI</b>       | <b><i>aml/devices/blades/firmware</i></b>        |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 140(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 13: bladeFirmwareList                 |

**Table 41: POST aml/devices/blades/firmware**

**Product Support:** Scalar i3, Scalar i6

**Description:** Upload the blade firmware bundle to the library. The multipart form data key is 'file' and the value is the file to be uploaded.

**Note:** This is a licensed feature (Service) for i3/i6.

| <b>URI</b>       | <b><i>aml/devices/blades/firmware</i></b>        |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 140(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | Content-Type: multipart/formdata                 |
| Request Data     | File to be updated                               |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 42: GET aml/devices/blades/library****Product Support:** Scalar i6k**Description:** Retrieve the library main controller blade (MCB) list resource.

| URI              | <i>aml/devices/blades/library</i>                |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200,                                             |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 100: libraryControlBladeList          |

**Table 43: GET aml/devices/blade/library/{serialNumber}****Product Support:** Scalar i6k**Description:** Retrieve the library controller blade resource whose serial number is given by the URI path template “serialNumber”.

| URI              | <i>aml/devices/blade/library/{serialNumber}</i>  |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 101: libraryControlBlade              |

**Table 44: GET aml/devices/blades/lufs****Product Support:** Scalar i3, Scalar i6**Description:** Retrieve the LTFS blade resource list.

| URI              | <i>aml/devices/blades/lufs</i> |
|------------------|--------------------------------|
| Method           | <b>GET</b>                     |
| User Role Access | Admin, Service, User           |
| Version          | 140(i3/i6)                     |
| Parameters       | N/A                            |
| Request Header   | N/A                            |
| Request Data     | N/A                            |
| Response Codes   | 200,                           |

| URI             | <i>aml/devices/blades/ltfs</i>                   |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 113: LtfsBladeList                    |

**Table 45: GET *aml/devices/blade/ltfs/{sectionNumber}***

**Product Support:** Scalar i3, Scalar i6

**Description:** Get the LTFS blade resource whose section location is given by URI path template “sectionNumber”.

| URI              | <i>aml/devices/blade/ltfs/{sectionNumber}</i>    |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 140(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200,                                             |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 114: LtfsBlade                        |

**Table 46: DELETE *aml/devices/blade/ltfs/{sectionNumber}***

**Product Support:** Scalar i3, Scalar i6

**Description:** Delete the LTFS blade resource whose section location is given by URI path template “sectionNumber”.

| URI              | <i>aml/devices/blade/ltfs/{sectionNumber}</i>    |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 140(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200,                                             |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 47: GET *aml/devices/blades/windows***

**Product Support:** Scalar i3, Scalar i6

**Description:** Retrieve the Windows blade resource list.

| <b>URI</b>       | <b><i>aml/devices/blades/windows</i></b>         |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 140(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200,                                             |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 191: windowsBladeList                 |

**Table 48: GET *aml/devices/blade/windows/{sectionNumber}***

**Product Support:** Scalar i3, Scalar i6

**Description:** Get the Windows blade resource whose section location is given by URI path template “sectionNumber”.

| <b>URI</b>       | <b><i>aml/devices/blade/windows/{sectionNumber}</i></b> |
|------------------|---------------------------------------------------------|
| Method           | <b>GET</b>                                              |
| User Role Access | Admin, Service, User                                    |
| Version          | 140(i3/i6)                                              |
| Parameters       | N/A                                                     |
| Request Header   | N/A                                                     |
| Request Data     | N/A                                                     |
| Response Codes   | 200,                                                    |
| Response Header  | Content-Type:application/xml or application/json        |
| Response Data    | See Figure 190: windowsBlade                            |

**Table 49: DELETE *aml/devices/blade/windows/{sectionNumber}***

**Product Support:** Scalar i3, Scalar i6

**Description:** Delete the Windows blade resource whose section location is given by URI path template “sectionNumber”.

| <b>URI</b>       | <b><i>aml/devices/blade/windows/{sectionNumber}</i></b> |
|------------------|---------------------------------------------------------|
| Method           | <b>DELETE</b>                                           |
| User Role Access | Admin, Service                                          |
| Version          | 140(i3/i6)                                              |
| Parameters       | N/A                                                     |
| Request Header   | N/A                                                     |
| Request Data     | N/A                                                     |
| Response Codes   | 200,                                                    |
| Response Header  | Content-Type:application/xml or application/json        |
| Response Data    | See Figure 192: WSResultCode                            |

**Table 50: GET aml/devices/ieStations****Product Support:** Scalar i6k

**Description:** Retrieve a list of ieStation resources. I/E stations enable you to import and export cartridges without interrupting normal library operation. There are two types of I/E stations on Scalar i6k libraries: 24-slot I/E stations and 72-slot I/E stations.

| URI              | aml/devices/ieStations                           |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 94: ieStationList                     |

**Table 51: GET aml/devices/ieStation/{number}****Product Support:** Scalar i6k

**Description:** Retrieve the ieStation resource whose number is given by URI path template “number”.

| URI              | aml/devices/ieStation/{number}                   |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 95: ieStation                         |

**Table 52: GET aml/devices/ieStation/{number}/lock****Product Support:** Scalar i6k

**Description:** Retrieve the ieStation resource lock status whose number is given by the URI path template “number”.

The valid status are 1 (locked) or 2 (Unlocked).

| URI              | aml/devices/ieStation/{number}/lock |
|------------------|-------------------------------------|
| Method           | GET                                 |
| User Role Access | Admin, Service, User                |

| <b>URI</b>      | <b><i>aml/devices/ieStation/{number}/lock</i></b> |
|-----------------|---------------------------------------------------|
| Version         | 700(i6k)                                          |
| Parameters      | N/A                                               |
| Request Header  | N/A                                               |
| Request Data    | N/A                                               |
| Response Codes  | 200, 404                                          |
| Response Header | Content-Type:application/xml or application/json  |
| Response Data   | 1 or 2                                            |

**Table 53: PUT *aml/devices/ieStation/{number}/lock***

**Product Support:** Scalar i6k

**Description:** Update the ieStation resource lock status whose number is given by the URI path template “number”.

The valid lock values are 1 (locked) or 2 (Unlocked).

| <b>URI</b>       | <b><i>aml/devices/ieStation/{number}/lock</i></b> |
|------------------|---------------------------------------------------|
| Method           | <b>PUT</b>                                        |
| User Role Access | Admin, Service                                    |
| Version          | 700(i6k)                                          |
| Parameters       | N/A                                               |
| Request Header   | Content-Type:text/plain or application/json       |
| Request Data     | 1 (lock) or 2 (unlock)                            |
| Response Codes   | 200, 404                                          |
| Response Header  | Content-Type:text/plain or application/json       |
| Response Data    | 1 or 2                                            |

**Table 54: GET *aml/devices/magazines***

**Product Support:** Scalar i3, Scalar i6

**Description:** Retrieve a list of magazine resources. A magazine is the removable tray that contains 25 tape cartridge slots. The right magazine can be configured for Storage and Import/Export (IE) slots.

| <b>URI</b>       | <b><i>aml/devices/magazines</i></b>              |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 116: magazineList                     |

**Table 55: GET aml/devices/magazines/ieSlots****Product Support:** Scalar i3, Scalar i6

**Description:** Retrieve the ieSlots resource. An ieSlots object is used to configure or report how many Import/Export (IE) slots are configured in a Scalar i3 or Scalar i6 library. The IE slots are configured in increments of 5. It is also used to configure and report the IE assignment mode. This mode determines how media placed in the IE slots are assigned to partitions.

| URI              | aml/devices/magazines/ieSlots                    |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 93: ieSlots                           |

**Table 56: PUT aml/devices/magazines/ieSlots****Product Support:** Scalar i3, Scalar i6

**Description:** Update the IE slots count and/or the assignment mode. Either the slotCount element or assignmentMode element (or both) may be given. The slotCount element must be in increments of 5, with a minimum value of 0 (no IE slots configured) and a maximum of 240. The library will decide where to physically assign the IE slots. If only the assignment mode is being set, the slot count element should be set to -1.

| URI              | aml/devices/magazines/ieSlots                    |
|------------------|--------------------------------------------------|
| Method           | PUT                                              |
| User Role Access | Admin, Service                                   |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 93: ieSlots                           |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 93: ieSlots                           |

**Table 57: POST aml/devices/magazines/eject****Product Support:** Scalar i3, Scalar i6

**Description:** Eject the magazines from the library. This allows the removal of the magazines from the library. The coordinate element of the magazine object is used to determine which magazine to eject. Only the coordinate element of the magazine object is required. The coordinate section number indicates the module, a column of 1 indicates the left magazine and a column of 10 indicates the right magazine. The coordinate's row number must be 1 and the type must be 2(storage).

| <b>URI</b>       | <b>aml/devices/magazines/eject</b>               |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 116: magazineList                     |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 58: POST aml/devices/magazines/ieAssign****Product Support:** Scalar i3, Scalar i6

**Description:** Assign the media in configured IE slots to a partition. Only the unassigned media will get assigned.

| <b>URI</b>       | <b>aml/devices/magazine/ieAssign</b>             |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:text/plain or application/json      |
| Request Data     | The partition name                               |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 59: POST aml/devices/magazine/eject****Product Support:** Scalar i3, Scalar i6

**Description:** Eject a magazine from the library. This allows the removal of the magazine from the library. The coordinate element of the magazine object is used to determine which magazine to eject. Only the coordinate object is required. The coordinate section number indicates the module, a column of 1 indicates the left magazine and a column of 10 indicates the right magazine. The coordinate's row number must be 1 and the type must be 2(storage).

| URI              | <i>aml/devices/magazine/eject</i>                |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 117: magazine                         |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 60: GET aml/devices/robots****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve a list of robot object resources.

| URI              | <i>aml/devices/robots</i>                        |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 167: robotList                        |

**Table 61: GET aml/devices/robots/enable****Product Support:** Scalar i6k

**Description:** Retrieve the current ready state, 'true' or 'false', of the robotics. If true, the library aisle power is enabled and the robotics are operational. If false, the library aisle power is disabled, because the Control Module door is opened, for example, and the robotics are not operational.

| <b>URI</b>       | <b><i>aml/devices/robots/enable</i></b>      |
|------------------|----------------------------------------------|
| Method           | <b>GET</b>                                   |
| User Role Access | Admin, Service, User                         |
| Version          | 735(i6k)                                     |
| Parameters       | N/A                                          |
| Request Header   | N/A                                          |
| Request Data     | N/A                                          |
| Response Codes   | 200                                          |
| Response Header  | Content-Type: text/plain or application/json |
| Response Data    | 'true' or 'false'                            |

**Table 62: POST *aml/devices/robots/enable***

**Product Support:** Scalar i6k

**Description:** Change the robotics to enable. This simulates the pushing of the 'Enable Robotics' button on the Control Module of the i6k. This enables library aisle power so the robotics become operational. All module doors must be closed and the library aisle must be clear from any obstruction.

| <b>URI</b>       | <b><i>aml/devices/robots/enable</i></b>           |
|------------------|---------------------------------------------------|
| Method           | <b>POST</b>                                       |
| User Role Access | Admin, Service                                    |
| Version          | 735(i6k)                                          |
| Parameters       | N/A                                               |
| Request Header   | N/A                                               |
| Request Data     | N/A                                               |
| Response Codes   | 200, 403                                          |
| Response Header  | Content-Type: application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                      |

**Table 63: GET *aml/devices/robot/{name}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the robot resource whose name is given by the URI path template "name".

| <b>URI</b>       | <b><i>aml/devices/robot/{name}</i></b>            |
|------------------|---------------------------------------------------|
| Method           | <b>GET</b>                                        |
| User Role Access | Admin, Service, User                              |
| Version          | 700(i6k), 110(i3/i6)                              |
| Parameters       | N/A                                               |
| Request Header   | N/A                                               |
| Request Data     | N/A                                               |
| Response Codes   | 200, 404                                          |
| Response Header  | Content-Type: application/xml or application/json |
| Response Data    | See Figure 168: robot                             |

**Table 64: GET aml/devices/robot/{name}/state****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the robots state whose name is given by the URI path template “name”.

| URI              | aml/devices/robot/{name}/state              |
|------------------|---------------------------------------------|
| Method           | GET                                         |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200, 404                                    |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | 1 (Varied On) or 2 (Varied Off)             |

**Table 65: PUT aml/devices/robot/{name}/state****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Update the robots state whose name is given by the URI path template “name”.

| URI              | aml/devices/robot/{name}/state              |
|------------------|---------------------------------------------|
| Method           | PUT                                         |
| User Role Access | Admin, Service                              |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | Content-Type:text/plain or application/json |
| Request Data     | 1 (varied On) or 2 (Varied Off)             |
| Response Codes   | 200, 403, 404                               |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | 1 (Varied On) or 2 (Varied Off)             |

**Table 66: POST aml/devices/robot/{name}/park****Product Support:** Scalar i3, Scalar i6**Description:** Park the robot whose name is given by the URI path template “name”.

| URI              | aml/devices/robot/{name}/park               |
|------------------|---------------------------------------------|
| Method           | POST                                        |
| User Role Access | Admin, Service                              |
| Version          | 110(i3/i6)                                  |
| Parameters       | N/A                                         |
| Request Header   | Content-Type:text/plain or application/json |
| Request Data     | 1 (Top) or 2(Bottom)                        |
| Response Codes   | 200, 403, 404                               |

| <b>URI</b>      | <b><i>aml/devices/robot/{name}/park</i></b>      |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                     |

**Table 67: GET aml/devices/towers**

**Product Support:** Scalar i6k

**Description:** Retrieve the list of tower resources. Towers are high-density expansion modules (HDEM). These modules have larger storage capacities making them ideal for libraries where space is an issue.

| <b>URI</b>       | <b><i>aml/devices/towers</i></b>                 |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 183: towerList                        |

**Table 68: GET aml/devices/tower/{id}**

**Product Support:** Scalar i6k

**Description:** Retrieve the tower resource whose id is given by the URI path template “id”.

| <b>URI</b>       | <b><i>aml/devices/tower/{id}</i></b>             |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 184: tower                            |

**Table 69: POST aml/devices/tower/{id}/identify****Product Support:** Scalar i6k**Description:** Identify the tower resource whose id is given by the URI path template “id”. The status LED on the rear tower door will flash rapidly for about one minute.

| <b>URI</b>       | <b>aml/devices/tower/{id}/identify</b>           |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 70: GET aml/devices/tower/{id}/mode****Product Support:** Scalar i6k**Description:** Retrieve the tower resource mode whose id is given by the URI path template “id”.

| <b>URI</b>       | <b>aml/devices/tower/{id}/mode</b>          |
|------------------|---------------------------------------------|
| Method           | <b>GET</b>                                  |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k)                                    |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200, 404                                    |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | 1 (Online) or 2 (Offline)                   |

**Table 71: PUT aml/devices/tower/{id}/mode****Product Support:** Scalar i6k**Description:** Update the tower resource mode whose id is given by the URI path template “id”.

| <b>URI</b>       | <b>aml/devices/tower/{id}/mode</b>          |
|------------------|---------------------------------------------|
| Method           | <b>PUT</b>                                  |
| User Role Access | Admin, Service                              |
| Version          | 700(i6k)                                    |
| Parameters       | N/A                                         |
| Request Header   | Content-Type:text/plain or application/json |
| Request Data     | 1 (Online) or 2 (Offline)                   |

| URI             | <i>aml/devices/tower/{id}/mode</i>          |
|-----------------|---------------------------------------------|
| Response Codes  | 200, 403, 404                               |
| Response Header | Content-Type:text/plain or application/json |
| Response Data   | 1 (Online) or 2 (Offline)                   |

**Table 72: POST *aml/devices/tower/{id}/reset***

**Product Support:** Scalar i6k

**Description:** Reset the tower's controller board whose id is given by the URI path template "id".

**Note:** The tower must be varied off before you can reset its controller board.

| URI              | <i>aml/devices/tower/{id}/reset</i>              |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 73: GET *aml/devices/tower/{id}/state***

**Product Support:** Scalar i6k

**Description:** Retrieve the tower's state whose id is given by the URI path template "id".

| URI              | <i>aml/devices/tower/{id}/state</i>         |
|------------------|---------------------------------------------|
| Method           | <b>GET</b>                                  |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k)                                    |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200, 404                                    |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | 1(Varied On) or 2(Varied Off)               |

**Table 74: PUT *aml/devices/tower/{id}/state***

**Product Support:** Scalar i6k

**Description:** Change the tower's state whose id is given by the URI path template "id".

| URI              | <i>aml/devices/tower/{id}/state</i>         |
|------------------|---------------------------------------------|
| Method           | <b>PUT</b>                                  |
| User Role Access | Admin, Service                              |
| Version          | 700(i6k)                                    |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200, 403, 404                               |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | 1(Varied Off) or 2(Varied On)               |

**Table 75: GET aml/drives**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve all tape drive resource instances. To filter the number of drives you want to receive use the query parameters described below.

| URI              | <i>aml/drives</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Parameters       | <p>Query parameter names are “partition”, “status” and “dataStore”. The valid value for the named parameter are as follows:</p> <ul style="list-style-type: none"> <li>partition = “partition name”</li> <li>status = “available” or “used”</li> <li>dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is ‘0’. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for Scalar i6k (added in version 738).</li> </ul> <p>To retrieve all the drive in the library use “aml/drives”.</p> <p>To retrieve all drives not belonging to a partition use “aml/drives?status=available”</p> <p>To retrieve all drives belonging to a partition named Sales use “aml/drives?partition=Sales”</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Codes   | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| URI             | <i>aml/drives</i>                                |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 29: driveList                         |

**Table 76: DELETE *aml/drives/firmware/image/{name}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the specified drive firmware file given by the 'name' path parameter.

| URI              | <i>aml/drives/firmware/image/{name}</i>          |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 77: GET *aml/drives/firmware/images***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the list of currently installed firmware images.

| URI              | <i>aml/ drives/firmware/images</i>                                                                                                                                                                    |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                            |
| User Role Access | Admin, Service, User                                                                                                                                                                                  |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                  |
| Parameters       | Query parameter names are vendor and type, with the following values <ul style="list-style-type: none"> <li>• vendor=IBM or HP</li> <li>• type=LTO2, LTO3, LTO4, LTO5, LTO6, LTO7 and LTO8</li> </ul> |
| Request Header   | N/A                                                                                                                                                                                                   |
| Request Data     | N/A                                                                                                                                                                                                   |
| Response Codes   | 200                                                                                                                                                                                                   |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                      |
| Response Data    | See Figure 82: firmwareFileList                                                                                                                                                                       |

**Table 78: POST aml/drives/firmware/images**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Upload a drive firmware image using form data with key = 'file' and value = filename of firmware. For example, to upload a firmware file named HP\_FH\_FC\_I69Z.E you would have the following:

file = HP\_FH\_FC\_I69Z.E

file = the location of the file (/tmp/ HP\_FH\_FC\_I69Z.E)

**Note:** The firmware file name must have one of the following extensions, .drv .fmr .fmrz .img .ro .e or .frm, and is case insensitive.

| URI              | aml/ drives/firmware/images                      |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type: multipart/form-data                |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 79: GET aml/drives/firmware/operations/update**

**Product Support:** Scalar i6k

**Description:** Retrieve the progress of the current drive(s) update operations.

This returns a firmwareStatusList object. The updateState element does not apply to this interface and should be ignored.

If a response code 404 is returned, the firmware update has finished and there is no further status to report.

| URI              | aml/drives/firmware/operations/update            |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 86: firmwareStatusList                |

**Table 80: POST aml/drives/firmware/operations/update**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Upgrade the selected drives with the specified firmware image files. To determine the progress status of the update, use Table 79: GET aml/drives/firmware/operations/update. This only applies to i6k libraries.

**Note:** The Scalar i6k supports an asynchronous request. Non-Scalar i6k tape libraries will support synchronous requests and block until the update has finished. This is a licensed feature (Service) for i3/i6.

| URI              | aml/drives/firmware/operations/update            |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 83: firmwareUpdateList                |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 81: GET aml/drives/logs**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of drive log resources that were generated by the library because of certain tape alerts generated by a drive.

| URI              | aml/drives/logs                                   |
|------------------|---------------------------------------------------|
| Method           | GET                                               |
| User Role Access | Admin, Service, User                              |
| Version          | 700(i6k), 110(i3/i6)                              |
| Parameters       | N/A                                               |
| Request Header   | N/A                                               |
| Request Data     | N/A                                               |
| Response Codes   | 200                                               |
| Response Header  | Content-Type: application/xml or application/json |
| Response Data    | See Figure 37: driveLogList                       |

**Table 82: GET aml/drives/log/{name}**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the drive log resource instance whose name is given by the URI path template “name”.

| <b>URI</b>       | <b><i>aml/drives/log/{name}</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Parameters       | <p>Query parameter names are “save” with the following valid values:</p> <ul style="list-style-type: none"> <li>• save=the default name you want the browser to save the contents of the file too. If no name is given a default name will be supplied by the Web Server.</li> </ul> <p>The purpose of the save parameter is to tell the Web Browser that this is an attachment. If the client is not a Web Browser, then the ‘Accept: application/octet-stream’ can be used to retrieve the file data.</p> |
| Request Header   | <p>Accept: application/octet-stream (download the file content)</p> <p>Accept: application/xml or application/json (retrieve the driveLog resource object)</p>                                                                                                                                                                                                                                                                                                                                              |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Codes   | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response Header  | <p>Content-Type: application/octet-stream, application/xml or application/json</p> <ul style="list-style-type: none"> <li>• On success</li> </ul> <p>Cookie: name=FileDownloadingProgressCookie, value=Done</p>                                                                                                                                                                                                                                                                                             |
| Response Data    | The file content, or driveLog object, see Figure 38: driveLog                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Table 83: DELETE *aml/drives/log/{name}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the drive log resource instance whose name is given by the URI path template “name”.

| <b>URI</b>       | <b><i>aml/drives/log/{name}</i></b>               |
|------------------|---------------------------------------------------|
| Method           | <b>DELETE</b>                                     |
| User Role Access | Admin, Service                                    |
| Version          | 700(i6k), 110(i3/i6)                              |
| Parameters       | N/A                                               |
| Request Header   | N/A                                               |
| Request Data     | N/A                                               |
| Response Codes   | 200, 403, 404                                     |
| Response Header  | Content-Type: application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                      |

**Table 84: POST aml/drives/log/{name}/email****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Email the drive log resource instance whose name is given by the URI path template “name”.

| URI              | <i>aml/drives/log/{name}/email</i>                |
|------------------|---------------------------------------------------|
| Method           | <b>POST</b>                                       |
| User Role Access | Admin, Service, User                              |
| Version          | 700(i6k), 110(i3/i6)                              |
| Parameters       | N/A                                               |
| Request Header   | Content-Type: application/xml or application/json |
| Request Data     | See Figure 65: email                              |
| Response Codes   | 200, 403, 404, 412                                |
| Response Header  | Content-Type: application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                      |

**Table 85: GET aml/drives/ports****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve all drive port resource instances.

| URI              | <i>aml/drives/ports</i>                                                                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                         |
| User Role Access | Admin, Service, User                                                                                                                                                                                               |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                               |
| Parameters       | Query parameter names are “configuration” with the following valid values: <ul style="list-style-type: none"> <li>configuration = “actual” or “requested”</li> </ul> Note: On the i6k only requested is applicable |
| Request Header   | N/A                                                                                                                                                                                                                |
| Request Data     | N/A                                                                                                                                                                                                                |
| Response Codes   | 200                                                                                                                                                                                                                |
| Response Header  | Content-Type: application/xml or application/json                                                                                                                                                                  |
| Response Data    | See Figure 39: drivePortList                                                                                                                                                                                       |

**Table 86: POST aml/drives/powerCycle****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Power Cycle one or more drives. The drive serial numbers can be physical or logical.

| URI              | <i>aml/drives/powerCycle</i> |
|------------------|------------------------------|
| Method           | <b>POST</b>                  |
| User Role Access | Admin, Service               |

| <b>URI</b>      | <b><i>aml/drives/powerCycle</i></b>              |
|-----------------|--------------------------------------------------|
| Version         | 720(i6k), 110(i3/i6)                             |
| Parameters      | N/A                                              |
| Request Header  | Content-Type:application/xml or application/json |
| Request Data    | See Figure 41: driveSerialNumberList             |
| Response Codes  | 200, 403                                         |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                     |

**Table 87: GET *aml/drives/reports/activity***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the library drive(s) activity for the last 24 hours. A list of 24 driveActivityStatistics objects will be returned. Each object will represent an hour of activity in the last 24 hours and will report the read and writes in MB for all drives in the library, including the total mount counts and the hour of the day. The first entry in the list will represent the activity 23 hours ago, while the last entry in the list will represent activity for the current hour of the day.

| <b>URI</b>       | <b><i>aml/drives/reports/activity</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Parameters       | <p>The following query parameters are supported, partition and drive with the following values:</p> <ul style="list-style-type: none"> <li>• partition= the name of a specific partition</li> <li>• driveSerialNumber= The physical serial number of the drive</li> </ul> <p>If no query parameters are used the request will return data for all drives in the library. If the partition parameter is specified, the data for the drives belonging to that partition will be reported. When the drive query parameter is specified then the data for that drive is reported.</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Codes   | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Response Data    | See Figure 31: driveActivityStatistics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**Table 88: GET aml/drives/reports/activity/details**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the library drive(s) activity for the last 24 hours. A list of 24 driveActivityStatistics objects will be returned for each drive installed in the library, see Figure 31: driveActivityStatistics for details. The detailedDriveActivityStatistics.drive object reports the logical and physical serial number of the drive and the partition who owns the drive.

| URI              | aml/drives/reports/activity/details              |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 720(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 27: detailedDriveActivityStatistics   |

**Table 89: GET aml/drives/reports/cleaning**

**Product Support:** Scalar i3, Scalar i6

**Description:** Retrieve the list of drive cleaning records. The drive cleaning records provide information as to when a drive was last cleaned, what cleaning media was used, how many time the media was used to clean a drive and whether the cleaning media has expired.

| URI              | aml/drives/reports/cleaning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Version          | 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Parameters       | <p>The following query parameters are supported, start, length, period, date, barcode, save with the following values:</p> <ul style="list-style-type: none"><li>• start=0-n</li><li>• length=1-n, anything else means all records.</li><li>• period=the last number of days to include in the report. If you want to report for the last month, you would specify 30.</li><li>• date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When</li></ul> |

| URI             | <i>aml/drives/reports/cleaning</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <p>used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored.</p> <ul style="list-style-type: none"> <li>• barcode=The media barcode</li> <li>• save="name" where name is a file name to use to save the drive utilization information to. The file format will be CSV.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser. A default "name" is provided if none is given.</p> <p>If no query parameters are used the request will return all the drive cleaning data.</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Response Codes  | 200, 403                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Response Header | <p>Content-Type:application/xml or application/json, text/plain, application/octet-stream</p> <p>On success</p> <p>Cookie: name=FileDownloadingProgressCookie, value=Done</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Response Data   | See Figure 32: driveCleaningList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Table 90: POST *aml/drives/reports/cleaning/email***

**Product Support:** Scalar i3, Scalar i6

**Description:** Email the list of drive cleaning records. The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 90: POST *aml/drives/reports/cleaning*

| URI              | <i>aml/drives/reports/cleaning/email</i>         |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | Figure 65: email                                 |
| Response Codes   | 200, 403, 412                                    |

| <i>URI</i>      | <i>aml/drives/reports/cleaning/email</i>         |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                     |

**Table 91: GET aml/drives/reports/utilization**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the list of drive utilization records. The drive utilization record provides information as to when tape drives were mounted and un-mounted, capturing how much data the drives read and wrote during such mount sessions. The information provides details to allow further analysis as to which drives may be under- or over-utilized for tape cartridge load operations while also providing read/write performance data to assess tape cartridge residency needs.

If the Media Type text/plain is selected (Accept http header) the data will be returned in CSV format.

**Note:** This is a licensed feature (Advanced Reporting).

| <i>URI</i>       | <i>aml/drives/reports/utilization</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Parameters       | <p>The following query parameters are supported, start, length, period, date, partition, driveSerialNumber, barcode, save with the following values:</p> <ul style="list-style-type: none"> <li>• start=0-n</li> <li>• length=1-n, anything else means all records.</li> <li>• period=the last number of days to include in the report. If you want to report for the last month, you would specify 30.</li> <li>• date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored.</li> <li>• partition= the name of a specific partition</li> </ul> |

| URI             | <i>aml/drives/reports/utilization</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <ul style="list-style-type: none"> <li>• barcode=The media barcode</li> <li>• save="name" where name is a file name to use to save the drive utilization information to. The file format will be CSV.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser.<br/>A default "name" is provided if none is given.</p> <p>If no query parameters are used the request will return all the drive utilization data.<br/>If the partition parameter is specified, the data for the drives belonging to that partition will be reported.</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Response Codes  | 200, 403(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Header | Content-Type:application/xml or application/json, text/plain, application/octet-stream<br>On success<br>Cookie: name=FileDownloadingProgressCookie, value=Done                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Response Data   | See Figure 42: driveUtilizationList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Table 92: POST *aml/drives/reports/utilization/email***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Email the list of drive utilization records. The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 68: GET *aml/drives/reports/utilization*.

**Note:** This is a licensed feature (Advanced Reporting).

| URI              | <i>aml/drives/reports/utilization/email</i>      |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | Figure 65: email                                 |
| Response Codes   | 200, 403, 412                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 93: GET aml/drive/{serialNumber}****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the drive resource instances whose serial number is given by the URI path template “serialNumber”. The serialNumber can be the drives logical or physical serial number.

| URI              | aml/drive/{serialNumber}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Parameters       | <p>Query parameter names are “dataStore”. The valid value for the named parameter are as follows:</p> <ul style="list-style-type: none"> <li>dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is '0'. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for Scalar i6k (added in version 738).</li> </ul> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Response Codes   | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Response Data    | See Figure 30: drive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Table 94: GET aml/drive/{serialNumber}/dataPath****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the data path drive or capable data path drive whose serial number is given by the URI path template “serialNumber”. The serialNumber can be the drives logical or physical serial number.

| URI              | aml/drive/{serialNumber}/dataPath |
|------------------|-----------------------------------|
| Method           | GET                               |
| User Role Access | Admin, Service, User              |
| Version          | 700(i6k), 110(i3/i6)              |
| Parameters       | N/A                               |
| Request Header   | N/A                               |
| Request Data     | N/A                               |
| Response Codes   | 200, 404                          |

| URI             | <i>aml/drive/{serialNumber}/dataPath</i>         |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 30: drive                             |

**Table 95: PUT *aml/drive/{serialNumber}/dataPath***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the data path drive whose serial number is given by the URI path template “serialNumber”. The drive element field that needs to be updated is the settings.dataPath field. The valid values are: 1 (None), 2 (Standard) and 3 (Advanced).

The example below turns on standard data path failover. The serialNumber can be the drives logical or physical serial number.

| URI              | <i>aml/drive/{serialNumber}/dataPath</i>                                                                                                                                                                                                                                                                                                                                                         |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>PUT</b>                                                                                                                                                                                                                                                                                                                                                                                       |
| User Role Access | Admin, Service                                                                                                                                                                                                                                                                                                                                                                                   |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                             |
| Parameters       | N/A                                                                                                                                                                                                                                                                                                                                                                                              |
| Request Header   | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                 |
| Request Data     | See Figure 30: drive<br>The required fields of the drive object are as follows:<br><br><pre>&lt;ns2:drive xmlns:ns2="http://automatedMediaLibrary/"&gt;   &lt;logicalSerialNumber&gt;F0012&lt;/logicalSerialNumber&gt; OR   &lt;physicalSerialNumber&gt;ABCD&lt;/physicalSerialNumber&gt;   &lt;settings&gt;     &lt;dataPath&gt;2&lt;/dataPath&gt;   &lt;/settings&gt; &lt;/ns2:drive&gt;</pre> |
| Response Codes   | 200, 403, 404, 412                                                                                                                                                                                                                                                                                                                                                                               |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                 |
| Response Data    | See Figure 30: drive                                                                                                                                                                                                                                                                                                                                                                             |

**Table 96: GET *aml/drive/{serialNumber}/operations/clean***

**Product Support:** Scalar i6k

**Description:** Retrieve a list of clean drive tasks that were requested on the drive whose serial number is provided by the URI path template “serialNumber”. The serialNumber must be the drives logical serial number.

| URI              | <i>aml/drive/{serialNumber}/operations/clean</i> |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |

| URI             | <i>aml/drive/{serialNumber}/operations/clean</i> |
|-----------------|--------------------------------------------------|
| Request Header  | N/A                                              |
| Request Data    | N/A                                              |
| Response Codes  | 200, 404                                         |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 180: taskList                         |

**Table 97: POST *aml/drive/{serialNumber}/operations/clean***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Start a drive cleaning on the drive using the cleanDriveTask object. The serialNumber must be the drive's logical serial number.

Before you can issue a drive cleaning operation, the drive mode must be changed to offline.

To determine what cleaning media to use to clean the drive you can first use the URI Table 183: GET *aml/physicalLibrary/elements* to find the configured cleaning slot elements.

You can also use the URI Table 120: GET *aml/media* to find the cleaning media configured in the library.

**Note:** This request is an asynchronous request on a Scalar i6k library. The new task object URI that was created will be included in the 'Location' header of the response, see

Table 98: GET *aml/drive/{serialNumber}/operations/clean/{id}*. To determine if a drive cleaning task has completed, check the state element of the task object, when complete the state should be 5 (Completed) (see Figure 181: task).

On the Scalar i3 and Scalar i6, this request will block until the cleaning operation has completed.

| URI              | <i>aml/drive/{serialNumber}/operations/clean</i>                                                                           |
|------------------|----------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                                                |
| User Role Access | i6k - Admin, Service<br>I3/i6 - Admin, Service, User (Partition Access Required)                                           |
| Version          | 700(i6k), 110(i3/i6)                                                                                                       |
| Parameters       | N/A                                                                                                                        |
| Request Header   | Content-Type:application/xml or application/json                                                                           |
| Request Data     | See Figure 15: cleanDriveTask                                                                                              |
| Response Codes   | 202(i6k) 200(I3/i6), 403, 404                                                                                              |
| Response Header  | Content-Type:application/xml or application/json<br>Location:<br><i>aml/drive/{serialNumber}/operations/clean/{taskId}</i> |
| Response Data    | See Figure 192: WSResultCode                                                                                               |

**Table 98: GET aml/drive/{serialNumber}/operations/clean/{id}****Product Support:** Scalar i6k

**Description:** Retrieve the task object with the id given by URI path template “id” and the componentId given by URI path template “serialNumber”. The serialNumber must be the drives logical serial number.

| URI              | aml/drive/{serialNumber}/operations/clean/{id}   |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 181: task                             |

**Table 99: DELETE aml/drive/{serialNumber}/operations/clean/{id}****Product Support:** Scalar i6k

**Description:** Delete the cleaning task resource that was started/requested on the drive whose serial number is given by the URI path template “serialNumber” and whose task id is given by the URI path template “id”.

The task must be completed (See Figure 181: task) before it can be deleted.

| URI              | aml/drive/{serialNumber}/operations/clean/{id}   |
|------------------|--------------------------------------------------|
| Method           | DELETE                                           |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 100: POST aml/drive/{serialNumber}/operations/eject****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Eject media from the drive whose serial number is provided by the URI path template “serialNumber”. The serialNumber can be either the drive’s physical or logical serial number.

**Note:** In the event a tape cartridge is stuck in a tape drive, a forced eject command sequence, which simulates a physical 10 second eject button press and hold, consists of a drive power-cycle command followed by an eject request. See Table 104: POST

aml/drive/{serialNumber}/operations/powerCycle and Table 100: POST aml/drive/{serialNumber}/operations/eject.

| URI              | aml/drive/{serialNumber}/operations/eject                                        |
|------------------|----------------------------------------------------------------------------------|
| Method           | POST                                                                             |
| User Role Access | i6k - Admin, Service<br>I3/i6 - Admin, Service, User (Partition Access Required) |
| Version          | 700(i6k), 110(i3/i6)                                                             |
| Parameters       | N/A                                                                              |
| Request Header   | N/A                                                                              |
| Request Data     | N/A                                                                              |
| Response Codes   | 200, 404                                                                         |
| Response Header  | Content-Type:application/xml or application/json                                 |
| Response Data    | See Figure 192: WSResultCode                                                     |

**Table 101: GET aml/drive/{serialNumber}/operations/identify**

**Product Support:** Scalar i6k

**Description:** Retrieve the drive identify task on the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber must be the drive’s logical serial number.

| URI              | aml/drive/{serialNumber}/operations/identify     |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 181: task                             |

**Table 102: POST aml/drive/{serialNumber}/operations/identify**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Initiate a drive identify on the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber must be the drive’s logical serial number. Only one identify task can be initiated at a time. On an i6k, if an identify task is currently running, it must be stopped (DELETE) before another one may be started.

| <b>URI</b>       | <b><i>aml/drive/{serialNumber}/operations/identify</i></b>                       |
|------------------|----------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                      |
| User Role Access | i6k - Admin, Service<br>I3/i6 - Admin, Service, User (Partition Access Required) |
| Version          | 700(i6k), 110(i3/i6)                                                             |
| Parameters       | N/A                                                                              |
| Request Header   | N/A                                                                              |
| Request Data     | N/A                                                                              |
| Response Codes   | 200(i3/i6), 202(i6k), 403, 404                                                   |
| Response Header  | Content-Type:application/xml or application/json                                 |
| Response Data    | See Figure 192: WSResultCode                                                     |

**Table 103: DELETE *aml/drive/{serialNumber}/operations/identify***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Stop a drive identify task for the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber must be the drive’s logical serial number.

| <b>URI</b>       | <b><i>aml/drive/{serialNumber}/operations/identify</i></b>                       |
|------------------|----------------------------------------------------------------------------------|
| Method           | <b>DELETE</b>                                                                    |
| User Role Access | i6k - Admin, Service<br>I3/i6 – Admin, Service, User (Partition Access Required) |
| Version          | 700(i6k), 110(i3/i6)                                                             |
| Parameters       | N/A                                                                              |
| Request Header   | N/A                                                                              |
| Request Data     | N/A                                                                              |
| Response Codes   | 200, 403, 404                                                                    |
| Response Header  | Content-Type:application/xml or application/json                                 |
| Response Data    | See Figure 192: WSResultCode                                                     |

**Table 104: POST *aml/drive/{serialNumber}/operations/powerCycle***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Power cycle the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber can be the drive’s logical or physical serial number.

| <b>URI</b>       | <b><i>aml/drive/{serialNumber}/operations/powerCycle</i></b> |
|------------------|--------------------------------------------------------------|
| Method           | <b>POST</b>                                                  |
| User Role Access | Admin, Service                                               |
| Version          | 700(i6k), 110(i3/i6)                                         |
| Parameters       | N/A                                                          |
| Request Header   | N/A                                                          |

| URI             | <i>aml/drive/{serialNumber}/operations/powerCycle</i> |
|-----------------|-------------------------------------------------------|
| Request Data    | N/A                                                   |
| Response Codes  | 200, 403, 404                                         |
| Response Header | Content-Type:application/xml or application/json      |
| Response Data   | See Figure 192: WSResultCode                          |

**Table 105: POST *aml/drive/{serialNumber}/operations/performanceTest***

**Product Support:** Scalar i3, Scalar i6

**Description:** Run a performance test on the drive whose serial number is provided by the URI path template “{serialNumber}”. The serialNumber can be the drive’s logical or physical serial number.

| URI              | <i>aml/drive/{serialNumber}/operations/performanceTest</i> |
|------------------|------------------------------------------------------------|
| Method           | <b>POST</b>                                                |
| User Role Access | Admin, Service, User (Partition Access Required)           |
| Version          | 110(i3/i6)                                                 |
| Parameters       | N/A                                                        |
| Request Header   | Content-Type:application/xml or application/json           |
| Request Data     | See Figure 119: media                                      |
| Response Codes   | 200, 403, 404                                              |
| Response Header  | Content-Type:application/xml or application/json           |
| Response Data    | See Figure 192: WSResultCode                               |

**Table 106: GET *aml/drive/{identifier}/operations/state***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the current state (Varied On, Varied Off or Pending) of the drive whose identifier is provided by the URI path template “{identifier}”. The identifier can be the physical or logical serial number of the drive or the drive coordinate in the following format:

“frame,rack,section,column,row” (aml/drive/2,1,4,1,1/operations/state).

The coordinate should be used when varying on a drive, because the drive serial numbers are not reported when the drive is in the Pending state.

| URI              | <i>aml/drive/{identifier}/operations/state</i>         |
|------------------|--------------------------------------------------------|
| Method           | <b>GET</b>                                             |
| User Role Access | Admin, Service, User                                   |
| Version          | 700(i6k), 110(i3/i6)                                   |
| Parameters       | N/A                                                    |
| Request Header   | N/A                                                    |
| Request Data     | N/A                                                    |
| Response Codes   | 200, 404                                               |
| Response Header  | Content-Type:text/plain or application/json            |
| Response Data    | 1(Varied On), 2(Varied Off) or 3(Pending/Initializing) |

**Table 107: PUT aml/drive/{identifier}/operations/state**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Change the drive state, 1 (Vary On) or 2 (Vary Off). This option should be used when replacing a drive.

The identifier can be the physical or logical serial number of the drive or the drive coordinate in the following format:

“frame,rack,section,column,row” (aml/drive/2,1,4,1,1/operations/state).

The coordinate should be used when varying on a drive, because the drive serial numbers are not reported when the drive is in the Pending state.

| URI              | aml/drive/{identifier}/operations/state                                          |
|------------------|----------------------------------------------------------------------------------|
| Method           | PUT                                                                              |
| User Role Access | i6k - Admin, Service<br>I3/i6 – Admin, Service, User (Partition Access Required) |
| Version          | 700(i6k), 110(i3/i6)                                                             |
| Parameters       | N/A                                                                              |
| Request Header   | Content-Type:text/plain or application/json                                      |
| Request Data     | 1 or 2                                                                           |
| Response Codes   | 200, 403, 404                                                                    |
| Response Header  | Content-Type:application/xml or application/json                                 |
| Response Data    | See Figure 192: WSResultCode                                                     |

**Table 108: POST aml/drive/{serialNumber}/operations/test**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Run a drive self-test on the drive whose serial number is provided by the URI path template “serialNumber”. The serialNumber can be the drive’s logical or physical serial number.

| URI              | aml/drive/{serialNumber}/operations/test                                         |
|------------------|----------------------------------------------------------------------------------|
| Method           | POST                                                                             |
| User Role Access | i6k - Admin, Service<br>I3/i6 - Admin, Service, User (Partition Access Required) |
| Version          | 700(i6k), 110(i3/i6)                                                             |
| Parameters       | N/A                                                                              |
| Request Header   | N/A                                                                              |
| Request Data     | N/A                                                                              |
| Response Codes   | 200, 403, 404                                                                    |
| Response Header  | Content-Type:application/xml or application/json                                 |
| Response Data    | See Figure 192: WSResultCode                                                     |

**Table 109: POST aml/drive/{serialNumber}/operations/wrapTest****Product Support:** Scalar i3, Scalar i6**Description:** Perform a drive wrap test on the drive whose serial number is provided by the URI path template “{serialNumber}”. The serialNumber can be the drive’s logical or physical serial number.**Note:** This test requires that a wrap test tool be applied to the tape drive interface port(s).

| URI              | aml/drive/{serialNumber}/operations/wrapTest     |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service, User (Partition Access Required) |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 110: GET aml/drive/{serialNumber}/ports****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the drive ports resources whose serial number is given by the URI path template “{serialNumber}”. The serialNumber can be the drives logical or physical serial number.

This will report both actual and requested topology and speed values for each port.

| URI              | aml/drive/{serialNumber}/ports                                                                         |
|------------------|--------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                    |
| User Role Access | Admin, Service, User                                                                                   |
| Version          | 700(i6k), 110(i3/i6)                                                                                   |
| Parameters       | Query parameter names are “configuration”. Valid values for configuration are “actual” and “requested” |
| Request Header   | N/A                                                                                                    |
| Request Data     | N/A                                                                                                    |
| Response Codes   | 200, 404                                                                                               |
| Response Header  | Content-Type:application/xml or application/json                                                       |
| Response Data    | See Figure 40: drivePorts                                                                              |

**Table 111: PUT aml/drive/{serialNumber}/ports**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Modify the port settings for the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber can be the drive’s logical or physical serial number.

The example below changes the requested topology to loop (3) and request speed to 2Gb (2) and loop id to 10:

The required fields are:

```
<ns2:drivePorts xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>logical serial number</serialNumber>
  <!-- OR -->
  <physicalSerialNumber>physical serial number</physicalSerialNumber>
  <ports>
    <port>
      <id>1</id>
      <topology>
        <requested>3</requested>
      </topology>
      <loopId>10</loopId>
      <speed>
        <requested>2</requested>
      </speed>
    </port>
  </ports>
</ns2:drivePorts>
```

If the id, type, address or status elements of the port object are included in the request they will be ignored. You cannot modify these elements.

**Note:** When modifying port settings that have ‘actual’ and ‘requested’ elements, the ‘requested’ element must be used. The ‘actual’ settings refer to the drive reported individual port settings that cannot be modified, which may be different than what was requested. Requested settings are requested for a drive, not a specific port, regardless of the drive having 1 or 2 interface ports and are modified via port id 1 of the port object. The Scalar i6k only supports the following port.topology.requested types:

1(Loop Preferred “LN”), 2(P2P/Fabric “N”), 3(Loop “L”)

| URI              | aml/drive/{serialNumber}/ports                   |
|------------------|--------------------------------------------------|
| Method           | PUT                                              |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 40: drivePorts                        |
| Response Codes   | 200, 403, 404                                    |

| URI             | <i>aml/drive/{serialNumber}/ports</i>            |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 40: drivePorts                        |

**Table 112: GET *aml/drive/{serialNumber}/log***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the drive log whose serial number is given by the URI path template “serialNumber”. The “serialNumber” can be either the physical or logical serial number of the drive. For example, to retrieve a drive log whose serial number is DR1002 use the following URI:

*aml/drive/DR1002/log*

**Note:** The drives in a Scalar i6k must be connected to an I/O Blade or Ethernet Expansion Blade for this feature to work.

| URI              | <i>aml/drive/{serialNumber}/log</i>                                                                                                                                                                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                 |
| User Role Access | Admin, Service                                                                                                                                                                                                                                                                                                             |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                       |
| Parameters       | Optional query parameter is save, with the following valid values<br>save="name" where name is a file name to use to save the log data to.<br>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file.<br>A Default "name" is provided if none is given. |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                        |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                        |
| Response Codes   | 200, 403, 404                                                                                                                                                                                                                                                                                                              |
| Response Header  | Content-Type: application/octet-stream, application/xml, application/json<br>Cookie name= FileDownloadingProgressCookie                                                                                                                                                                                                    |
| Response Data    | Byte Stream if request completes successfully, otherwise See Figure 192: WSResultCode                                                                                                                                                                                                                                      |

**Table 113: POST *aml/drive/{serialNumber}/log/email***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Email the drive log report whose serial number is given by the URI path template “serialNumber”. The “serialNumber” can be either the physical or logical serial number of the drive.

The information will be in an email attachment.

**Note:** The drives in a Scalar i6k must be connected to an IO Blade or Ethernet Expansion Blade for this feature to work.

| URI              | <i>aml/drive/{serialNumber}/log/email</i>          |
|------------------|----------------------------------------------------|
| Method           | <b>POST</b>                                        |
| User Role Access | Admin, Service                                     |
| Version          | 700(i6k), 110(i3/i6)                               |
| Parameters       | N/A                                                |
| Request Header   | Content-Type: application/xml,<br>application/json |
| Request Data     | See Figure 65: email                               |
| Response Codes   | 200, 403, 404, 412                                 |
| Response Header  | Content-Type: application/xml,<br>application/json |
| Response Data    | See Figure 192: WSResultCode                       |

**Table 114: GET *aml/drive/{serialNumber}/mode***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the current mode (Online/Offline) of the drive whose serial number is provided by the URI path template “{serialNumber}”. The “{serialNumber}” can be either the physical or logical serial number of the drive.

| URI              | <i>aml/drive/{serialNumber}/mode</i>       |
|------------------|--------------------------------------------|
| Method           | <b>GET</b>                                 |
| User Role Access | Admin, Service, User                       |
| Version          | 700(i6k), 110(i3/i6)                       |
| Parameters       | N/A                                        |
| Request Header   | N/A                                        |
| Request Data     | N/A                                        |
| Response Codes   | 200, 404                                   |
| Response Header  | Content-Type: test/plain, application/json |
| Response Data    | 1(Online) or 2(Offline)                    |

**Table 115: PUT *aml/drive/{serialNumber}/mode***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Change the drive mode of the drive whose serial number is provided by the URI path template “{serialNumber}”. The “{serialNumber}” can be either the physical or logical serial number of the drive.

The mode can be, 1 (Online) or 2 (Offline). This option should be used to block hosts from moving media to a drive (mode offline). When offline a Read Element Status will report an ASC 0x83 ASCQ 0x05 and moves are rejected with an ASC 0x83 ASCQ 0x05.

A situation where the drive should be taken offline is when updating drive firmware.

| URI              | <i>aml/drive/{serialNumber}/mode</i>                                             |
|------------------|----------------------------------------------------------------------------------|
| Method           | <b>PUT</b>                                                                       |
| User Role Access | i6k - Admin, Service<br>i3/i6 – Admin, Service, User (Partition Access Required) |
| Version          | 700(i6k), 110(i3/i6)                                                             |
| Parameters       | N/A                                                                              |
| Request Header   | Content-Type: text/plain, application/json                                       |
| Request Data     | 1 or 2                                                                           |
| Response Codes   | 200, 403, 404                                                                    |
| Response Header  | Content-Type: application/xml, application/json                                  |
| Response Data    | See Figure 192: WSResultCode                                                     |

**Table 116: POST *aml/drive/{serialNumber}/removeITNexus***

**Product Support:** Scalar i6k

**Description:** Remove the IT Nexus from the drive with the serial number given by URI path template “serialNumber”. The “serialNumber” can be either the physical or logical serial number of the drive.

The drive will clear all SCSI-host defined Initiator-Target (IT) reservations and media removal settings. This functionality only applies to HP LTO5 and greater drives.

| URI              | <i>aml/drive/{serialNumber}/removeITNexus</i>    |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 117: GET *aml/enum***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve all the enum resource instances. The enum resources describe the name value pairs for certain XML object elements. For example, the RASGroup object has a property group and a value of 1. To determine the value of 1, the componentList component name “RASGroup” contains keys for all possible values for an element name “group”, and the value of 1 is “Connectivity”. See the XML response data below:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<componentList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="RASGroup">
    <element name="group">
      <entry key="0" value="All"/>
      <entry key="1" value="Connectivity"/>
      <entry key="2" value="Control"/>
      <entry key="3" value="Media"/>
      <entry key="4" value="Drives"/>
      <entry key="5" value="Power"/>
      <entry key="6" value="Robotics"/>
      <entry key="7" value="Library"/>
    </element>
  </component>
  <component name="RASGroupStatus">
    <element name="group">
      <entry key="1" value="Connectivity"/>
      <entry key="2" value="Control"/>
      <entry key="3" value="Media"/>
      <entry key="4" value="Drives"/>
      <entry key="5" value="Power"/>
      <entry key="6" value="Robotics"/>
      <entry key="7" value="Library"/>
    </element>
    <element name="status">
      <entry key="1" value="Good"/>
      <entry key="2" value="Failed"/>
      <entry key="3" value="Degraded"/>
      <entry key="4" value="Warning"/>
      <entry key="5" value="Informational"/>
      <entry key="6" value="Unknown"/>
      <entry key="7" value="Invalid"/>
      <entry key="8" value="Attention"/>
    </element>
  </component>
  </component>
  ....
  ....
</componentList>

```

| <b>URI</b>       | <b>aml/enum</b>                                     |
|------------------|-----------------------------------------------------|
| Method           | <b>GET</b>                                          |
| User Role Access | Admin, Service, User                                |
| Version          | 700(i6k), 110(i3/i6)                                |
| Parameters       | N/A                                                 |
| Request Header   | N/A                                                 |
| Request Data     | N/A                                                 |
| Response Codes   | 200                                                 |
| Response Header  | Content-Type:application/xml or<br>application/json |
| Response Data    | See Figure 20: componentList                        |

**Table 118: GET aml/enum/{component}****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the enum resource instance whose component is given by the URI path template “component”. This is similar to the aml/enum resource, except this URI should returns only the elements for the specific path component template parameter. The example output below shows the response for the component “RASGroup”. The URI “aml/enum/RASGroup” returns the response data below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<elementList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="RASGroup">
    <element name="group">
      <entry key="0" value="All"/>
      <entry key="1" value="Connectivity"/>
      <entry key="2" value="Control"/>
      <entry key="3" value="Media"/>
      <entry key="4" value="Drives"/>
      <entry key="5" value="Power"/>
      <entry key="6" value="Robotics"/>
      <entry key="7" value="Library"/>
    </element>
  </component>
</elementList>
```

| URI              | aml/enum/{component}                             |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 20: componentList (ENUM)              |

**Table 119: GET aml/enum/{component}/{element}****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the enum component and element resource instance given by the URI path template “component” and “element”. The URI “aml/enum/partition/interfaceType” will return the response data below:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<entryList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="partition">
    <element name="interfaceType">
      <entry key="1" value="SCSI"/>
      <entry key="10" value="Mixed"/>
      <entry key="2" value="Fibre"/>
      <entry key="3" value="SAS"/>
    </element>
  </component>
</entryList>

```

| URI              | <i>aml/enum/{component}/{element}</i>            |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 70: entryList (ENUM)                  |

**Table 120: GET aml/media**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the media resource instances.

| URI              | <i>aml/media</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Parameters       | <p>Query parameters are partition, location, start, length, frame, rack, type, status, and save, and have the following values:</p> <ul style="list-style-type: none"> <li>• partition=name of partition</li> <li>• location="storage", "drive", "ie" or "xie"</li> <li>Range parameters</li> <li>• start=0-n</li> <li>• length=1-n, anything else means all records.</li> <li>• frame=0 – maximum number of frames</li> <li>• rack = 1 or 2</li> <li>• type= 3(LTO2), 4(LTO3), 5(LTO4), 6(LTO5), 7(LTO6), 8(LTO7), 9(LTO8), 20(Cleaning)</li> <li>• status="used" or "available"</li> <li>• save="name" where name is a file name</li> </ul> |

| URI | aml/media                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <p>to use to save the media information to. The file format will be CSV. (i6k Only)</p> <ul style="list-style-type: none"> <li>• sharedIE=true or false. (I3/i6 Only)</li> <li>• includePreviousOwner=true. This will prompt the server to include the previousOwner information of the media object. This is only supported for Scalar i6k version 738 or higher.</li> <li>• fields=A comma separate list of media object elements you want to get values for. The elements that are supported are barcode, coordinate, currentOwner, encryption and mediaType. This query parameter is provided to improve performance on libraries with large numbers of media. This is only supported for the Scalar i6k.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> <p>The sharedIE query parameter is an indication if shared IE media (unassigned media in an IE slot while the library is in auto assignment mode) should specifically be included or excluded from the media list. If true, shared IE media will be included. If false, shared IE media are excluded. For example, /media?status=available, by default, includes shared IE media. Adding sharedIE=false (/media?used=available&amp;sharedIE=false) will exclude the shared IE media from the list.</p> <p>To retrieve all media in one call, use "aml/media?start=0&amp;length=-1" which is the default if no range is specified.</p> <p>To retrieve all media belonging to partition named TEST use "aml/media?partition=TEST".</p> <p>To retrieve all media in IE stations use "aml/media?location=ie".</p> <p>To retrieve the first 50 media belonging to partition TEST use "aml/media?partition=TEST&amp;start=0&amp;length=50".</p> <p><b>Note:</b> When using the range parameters, the media are sorted by their barcodes.</p> |

| <i>URI</i>      | <i>aml/media</i>                                                                                                                                         |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Request Header  | N/A                                                                                                                                                      |
| Request Data    | N/A                                                                                                                                                      |
| Response Codes  | 200, 404                                                                                                                                                 |
| Response Header | Content-Type:application/xml or application/json<br>On success and save= parameter is used<br>Cookie: name=<br>FileDownloadingProgressCookie, value=Done |
| Response Data   | See Figure 118: mediaList                                                                                                                                |

**Table 121: GET aml/media/cleaning**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of cleaning media resources. These are specific media used for drive cleaning.

**Note:** The cleaningMedia.state element is not supported for the Scalar i6k.

| <i>URI</i>       | <i>aml/media/cleaning</i>                        |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 16: cleaningMediaList                 |

**Table 122: GET aml/media/edlm**

**Product Support:** Scalar i6k, Scalar i6

**Description:** Retrieve a list of EDLM media resources. These resources describe all the media in the library, except for media that are in IE slots or drives, and whether they have been tested by the EDLM feature. The list can be used to determine which media may need to have tests started. If a media has never been scanned, the value of the testType, testPriority, testState and testResult elements of the edlmMedia object can be ignored.

| <i>URI</i>       | <i>aml/media/edlm</i>                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                               |
| User Role Access | Admin, Service, User                                                                                                                     |
| Version          | 700(i6k), 110(i6)                                                                                                                        |
| Parameters       | The following query parameters are supported, partition, barcode, start, length, period, state, type and date with the following values: |

| <b>URI</b>      | <b>aml/media/edlm</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <ul style="list-style-type: none"> <li>• partition=name (request only media belonging to this partition)</li> <li>• barcode=the media barcode to filter on</li> <li>• start=0-n (range parameter)</li> <li>• length=1-n, anything else means all records.</li> <li>• period=the last number of days to include in the data reported. If you want to report for the last 3 months, you would specify 90.</li> <li>• date=At what date (the lastTested field of the edlmMedia object is used) you want to start your query. The data returned will include all records that are equal or older than the date specified and applied against the lastTested field of the edlmMedia object. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored.</li> <li>• state=the current/last test state: 1(pending), 2(In progress), 3(Complete), 4(Stopped), 5(Paused) or 6(Resume (scalar i6k only))</li> <li>• type=the test type of the current/last test type: 1(Quick Scan), 2(Normal Scan) or 3(Full Scan).</li> </ul> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Codes  | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Header | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Response Data   | See Figure 44: edlmMediaList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**Table 123: POST aml/media/edlm**

**Product Support:** Scalar i6k, Scalar i6

**Description:** Start a new EDLM test session using the edlmMediaObject list. The required fields of the edlmMedia object are:

edlmMedia.barcode and edlmMedia.testType. Scalar i6 libraries require also that the coordinate be specified.

You can also set the edlmMedia.testPriority field.

This call is asynchronous, and the location headed in the response will report the new session id URI that can be used to determine the test state.

| URI              | aml/media/edlm                                                                          |
|------------------|-----------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                             |
| User Role Access | Admin, Service                                                                          |
| Version          | 700(i6k), 110(i6)                                                                       |
| Parameters       | N/A                                                                                     |
| Request Header   | Content-Type: application/xml or application/json                                       |
| Request Data     | See Figure 44: edlmMediaList                                                            |
| Response Codes   | 200(i6k), 201(i3/i6), 403, 404                                                          |
| Response Header  | Content-Type: application/xml or application/json<br>Location: aml/media/edlm/session/# |
| Response Data    | See Figure 192: WSResultCode                                                            |

**Table 124: GET aml/media/edlm/results**

**Product Support:** Scalar i6k, Scalar i6

**Description:** Retrieve a list of EDLM media result resources. These resources report the results of media that have been tested by the EDLM feature. Media may have more than one result, depending on how many times it has been tested.

| URI              | aml/media/edlm/results                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                      |
| Version          | 700(i6k), 110(i6)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Parameters       | <p>The following query parameters are supported: partition, barcode, start, length, period, state, type and date, with the following values:</p> <ul style="list-style-type: none"> <li>partition=name (request only results for media belonging to this partition)</li> <li>barcode=the media barcode to filter on</li> <li>start=0-n (range parameter)</li> <li>length=1-n, anything else means all records.</li> </ul> |

| URI             | <i>aml/media/edlm/results</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <ul style="list-style-type: none"> <li>period=the last number of days to include in the data reported. If you want to report for the last 3 months, you would specify 90.</li> <li>date=At what date (the testDate (this is the date the media was last scanned) of the edlmMediaResult object field is used) you want to start your query. The data returned will include all records that are equal or older than the date specified and applied against the testDate field of the edlmMediaResult object. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored.</li> <li>state=the current/last test state: 1(pending), 2(In progress), 3(Complete), 4(Stopped), 5(Paused) or 6(Resume (Scalar i6k only))</li> <li>type=the test type of the current/last test type: 1(Quick Scan), 2(Normal Scan) or 3(Full Scan).</li> <li>sessionId=the session id that kicked off the test</li> </ul> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Response Codes  | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Response Header | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Data   | See Figure 46: edlmMediaResultList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Table 125: GET *aml/media/edlm/result/{id}***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Retrieve the EDLM media result resource instance whose id is given by the URI path template “id”.

| URI              | <i>aml/media/edlm/result/{id}</i> |
|------------------|-----------------------------------|
| Method           | <b>GET</b>                        |
| User Role Access | Admin, Service, User              |
| Version          | 700(i6k), 110(i6)                 |
| Parameters       | N/A                               |

| URI             | <i>aml/media/edlm/result/{id}</i>                 |
|-----------------|---------------------------------------------------|
| Request Header  | N/A                                               |
| Request Data    | N/A                                               |
| Response Codes  | 200, 404                                          |
| Response Header | Content-Type: application/xml or application/json |
| Response Data   | See Figure 47: edlmMediaResult                    |

**Table 126: DELETE *aml/media/edlm/result/{id}***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Delete the EDLM media result resource instance whose id is given by the URI path template “id”.

| URI              | <i>aml/media/edlm/result/{id}</i>                 |
|------------------|---------------------------------------------------|
| Method           | <b>DELETE</b>                                     |
| User Role Access | Admin, Service                                    |
| Version          | 700(i6k), 110(i6)                                 |
| Parameters       | N/A                                               |
| Request Header   | N/A                                               |
| Request Data     | N/A                                               |
| Response Codes   | 200, 403, 404                                     |
| Response Header  | Content-Type: application/xml or application/json |
| Response Data    | See Figure 47: edlmMediaResult                    |

**Table 127: GET *aml/media/edlm/sessions***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Retrieve a list of EDLM session resources. These session resources report the status of a collection of media that have either been tested, are currently being tested or are scheduled to be tested. When a user initiates an EDLM test, see Table 123: POST *aml/media/edlm*, a new session is created and it aggregates the results of the media being tested.

| URI              | <i>aml/media/edlm/sessions</i>                                                                                                                                                                                                                                                                                             |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                 |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                       |
| Version          | 700(i6k), 110(i6)                                                                                                                                                                                                                                                                                                          |
| Parameters       | <p>The following query parameters are supported, active with the following values:</p> <ul style="list-style-type: none"> <li>active = true. When this parameter is requested, only sessions that are in a state of Pending (2), Paused (4) or In Progress (8) will be reported.</li> </ul> <p><b>Note:</b> 13/16 only</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                        |

| <b>URI</b>      | <b><i>aml/media/edlm/sessions</i></b>            |
|-----------------|--------------------------------------------------|
| Request Data    | N/A                                              |
| Response Codes  | 200                                              |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 52: edlmSessionList                   |

**Table 128: GET *aml/media/edlm/session/{id}***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Retrieve the EDLM session resource instance whose id is given by the URI path template “id”.

| <b>URI</b>       | <b><i>aml/media/edlm/session/{id}</i></b>        |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 53: edlmSession                       |

**Table 129: PUT *aml/media/edlm/session/{id}/operations/pause***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Pause the EDLM media tests that were started by the session resource instance whose id is given by the URI path template “id”. The tests that will be paused must have a current test state of Pending.

| <b>URI</b>       | <b><i>aml/media/edlm/session/{id}/operations/pause</i></b> |
|------------------|------------------------------------------------------------|
| Method           | <b>PUT</b>                                                 |
| User Role Access | Admin, Service                                             |
| Version          | 700(i6k), 110(i6)                                          |
| Parameters       | N/A                                                        |
| Request Header   | N/A                                                        |
| Request Data     | N/A                                                        |
| Response Codes   | 200, 403, 404                                              |
| Response Header  | Content-Type:application/xml or application/json           |
| Response Data    | See Figure 192: WSResultCode                               |

**Table 130: PUT aml/media/edlm/session/{id}/operations/resume****Product Support:** Scalar i6k, Scalar i6**Description:** Resume the EDLM media tests that were started by the session resource instance whose id is given by the URI path template “id”. Tests with a current test state of paused will be resumed.

| URI              | aml/media/edlm/session/{id}/operations/resume    |
|------------------|--------------------------------------------------|
| Method           | PUT                                              |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 131: PUT aml/media/edlm/session/{id}/operations/stop****Product Support:** Scalar i6k, Scalar i6**Description:** Stop the EDLM media tests that were started by the session resource instance whose id is given by the URI path template “id”. Tests with a current test state of paused, pending or in progress will be stopped.

| URI              | aml/media/edlm/session/{id}/operations/stop      |
|------------------|--------------------------------------------------|
| Method           | PUT                                              |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 132: GET aml/media/operations/moveMedium****Product Support:** Scalar i6k**Description:** Retrieve the list of moveMedium resources that are currently in progress. The moveMedium objects returned will include the source and destination coordinates, all other elements of the moveMedium object should be ignored. The list of move medium will only include those moves that were requested through the Web Services interface, Table 133: POST aml/media/operations/moveMedium.

| <b>URI</b>       | <b><i>aml/media/operations/moveMedium</i></b>    |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 751(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 127: moveMediumList                   |

**Table 133: POST *aml/media/operations/moveMedium***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Move a media from its source coordinate to the destination coordinate. The destination coordinate must be empty and can be any element type storage, drive, I/E or extended I/E.

The mode element should be set to 2 if the partition involved in the move operation is to be taken offline before the move and put back online after the move. It is not necessary to take the partition offline and then back online since the host will be notified that there was an inventory change when a media is moved to/from a partition.

When moving media from a drive (unload) use the mediaHomeCoordinate element of the drive object (see Figure 30: drive), to determine the slot coordinate where the media came from (this will be the destinationCoordinate).

| <b>URI</b>       | <b><i>aml/media/operations/moveMedium</i></b>    |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User (Partition Access Required) |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 128: moveMedium                       |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 134: GET *aml/media/operations/moveMedium/maxAllowed***

**Product Support:** Scalar i6k

**Description:** Retrieve the maximum number of concurrent move medium requests allowed, using Web Services.

|                  |                                                                      |
|------------------|----------------------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/media/operations/moveMedium/maxAllowed</i></b>             |
| Method           | <b>GET</b>                                                           |
| User Role Access | Admin, Service, User                                                 |
| Version          | 751(i6k)                                                             |
| Parameters       | N/A                                                                  |
| Request Header   | N/A                                                                  |
| Request Data     | N/A                                                                  |
| Response Codes   | 200                                                                  |
| Response Header  | Content-Type: text/plain or application/json                         |
| Response Data    | A number representing the maximum number of concurrent move allowed. |

**Table 135: PUT *aml/media/operations/moveMedium/maxAllowed***

**Product Support:** Scalar i6k

**Description:** Update the maximum number of concurrent move medium requests allowed, using Web Services.

|                  |                                                                                                                                                |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/media/operations/moveMedium/maxAllowed</i></b>                                                                                       |
| Method           | <b>POST</b>                                                                                                                                    |
| User Role Access | Admin, Service                                                                                                                                 |
| Version          | 751(i6k)                                                                                                                                       |
| Parameters       | N/A                                                                                                                                            |
| Request Header   | Content-Type: text/plain or application/json                                                                                                   |
| Request Data     | -1 (Unbounded, no maximum limit, this is the default)<br>0-n (0 means move medium is disabled and 1-n is the maximum concurrent moves allowed) |
| Response Codes   | 200, 503                                                                                                                                       |
| Response Header  | Content-Type: application/xml or application/json                                                                                              |
| Response Data    | Figure 192: WSResultCode                                                                                                                       |

**Table 136: GET aml/media/reports/crossPartitionMoves****Product Support:** Scalar i6k, Scalar i6**Description:** Retrieve the cross partition moves report. This report contains a list of media that have been moved from one partition to another partition.

| URI              | aml/media/reports/crossPartitionMoves                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Parameters       | <p>The following query parameters are supported, start, length, period, date, save with the following values:</p> <p>Range parameters</p> <ul style="list-style-type: none"><li>• start=0-n</li><li>• length=1-n, anything else means all records.</li><li>• period=the last number of days to include in the report. If you want to report for the last 3 months, you would specify 90.</li><li>• date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored.</li><li>• partition=the source or destination partition name to filter on.</li><li>• barcode=the barcode of the media that was moved</li><li>• type=the source or destination partition type involved in the move, 1(Standard), 2(EDLM), 3(AMP) or 4(Active Vault).</li><li>• save="name" where name is a file name to use to save the cross partition media move information to. The file format will be CSV.</li></ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> |

| <b>URI</b>      | <b><i>aml/media/reports/crossPartitionMoves</i></b>                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------|
|                 | If no query parameters are used the request will return all the cross partition move data.                               |
| Request Header  | N/A                                                                                                                      |
| Request Data    | N/A                                                                                                                      |
| Response Codes  | 200, 404                                                                                                                 |
| Response Header | Content-Type:application/xml or application/json<br>On success<br>Cookie: name=FileDownloadingProgressCookie, value=Done |
| Response Data   | See Figure 24: crossPartitionMovesList                                                                                   |

**Table 137: POST *aml/media/reports/crossPartitionMoves/email***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Email the list of cross partition media move records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 136: GET *aml/media/reports/crossPartitionMoves*.

| <b>URI</b>       | <b><i>aml/media/reports/crossPartitionMoves/email</i></b> |
|------------------|-----------------------------------------------------------|
| Method           | <b>POST</b>                                               |
| User Role Access | Admin, Service, User                                      |
| Version          | 700(i6k), 110(i3/i6)                                      |
| Parameters       | N/A                                                       |
| Request Header   | Content-Type:application/xml or application/json          |
| Request Data     | See Figure 65: email                                      |
| Response Codes   | 200, 403, 404, 412                                        |
| Response Header  | Content-Type:application/xml or application/json          |
| Response Data    | See Figure 192: WSResultCode                              |

**Table 138: GET *aml/media/reports/edlm***

**Product Support:** Scalar i6

**Description:** Retrieve the EDLM Scan Test report resource. This report contains a list of media that have been scanned by the EDLM drive(s) installed in the library.

**Note:** This is a licensed feature (EDLM).

| <b>URI</b>       | <b><i>aml/media/reports/edlm</i></b>                                                                                                                               |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                         |
| User Role Access | Admin, Service, User                                                                                                                                               |
| Version          | 110(i6)                                                                                                                                                            |
| Parameters       | The following query parameters are supported, start, length, period, date, barcode, driveSerialNumber, partition, type, result and save with the following values: |

| URI             | <b><i>aml/media/reports/edlm</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <p>Range parameters</p> <ul style="list-style-type: none"> <li>• start=0-n</li> <li>• length=1-n, anything else means all records.</li> <li>• period=the last number of days to include in the report. If you want to report for the last 3 months, you would specify 90.</li> <li>• date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored.</li> <li>• barcode=the specific media barcode you want to query on.</li> <li>• driveSerialNumber=the EDLM drive serial number (physical) that was used to scan the media.</li> <li>• partition=the name of the partition who last owned the media.</li> <li>• type=the test scan type to filter on, the valid values are 1(Quick), 2(Normal) and 3(Full).</li> <li>• result=the test result to filter on, the valid values are 1(Good), 2(Untested), 3(Suspect) and 4(Failed)</li> <li>• save="name" where name is a file name to use to save the cross partition media move information to. The file format will be CSV.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> <p>If no query parameters are used the request will return all the media that have been tested/scanned.</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Response Codes  | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Header | Content-Type:application/xml or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| URI           | <i>aml/media/reports/edlm</i>                                                            |
|---------------|------------------------------------------------------------------------------------------|
|               | application/json<br>On success<br>Cookie: name=FileDownloadingProgressCookie, value=Done |
| Response Data | See Figure 48: edlmMediaScanTestList                                                     |

**Table 139: POST *aml/media/reports/edlm/email***

**Product Support:** Scalar i6

**Description:** Email the EDLM Scan Test report.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 138: GET *aml/media/reports/edlm*, to filter on result, use the reportCriteria.state element.

**Note:** This is a licensed feature (EDLM).

| URI              | <i>aml/media/reports/edlm/email</i>              |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 110(i6)                                          |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 65: email                             |
| Response Codes   | 200, 403, 404, 412                               |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 140: GET *aml/media/reports/inventory***

**Product Support:** Scalar i6k

**Description:** Retrieve the media inventory resource instances.

| URI              | <i>aml/media/reports/inventory</i>                                                                                                                                                                                                                                                                                                                       |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                               |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                     |
| Version          | 700(i6k)                                                                                                                                                                                                                                                                                                                                                 |
| Parameters       | Query parameters are partition, location, start, length, frame, rack and have the following values: <ul style="list-style-type: none"> <li>partition=name of partition</li> <li>location="storage", "drive" or "ie"</li> </ul> Range parameters <ul style="list-style-type: none"> <li>start=0-n</li> <li>length=1-n, anything else means all</li> </ul> |

| <b>URI</b>      | <b><i>aml/media/reports/inventory</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <p>records.</p> <ul style="list-style-type: none"> <li>• frame=0 – maximum number of frames</li> <li>• rack = 1 or 2</li> <li>• save="name" where name is a file name to use to save the media inventory information to. The file format will be CSV.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> <p><b>Note:</b> When using the range parameters, the media are sorted by their barcodes.</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Response Codes  | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Response Header | Content-Type:application/xml or application/json, text/plain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Response Data   | See Figure 118: mediaList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Table 141: POST *aml/media/reports/inventory/email***

**Product Support:** Scalar i6k

**Description:** Email the list of media records.

The information will be in an email attachment and the file format will be CSV.

| <b>URI</b>       | <b><i>aml/media/reports/inventory/email</i></b>  |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 65: email                             |
| Response Codes   | 200, 403, 412                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 142: GET aml/media/reports/securityEvents**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the list of media security records.

The media security records provide information as to which tape cartridge was removed either expectedly (properly exported) or removed unexpectedly (removed during open door condition or while library was powered off) to assist administrators with tape cartridge inventory verifications.

**Note:** This is a licensed feature (Advanced Reporting).

| URI              | aml/media/reports/securityEvents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Parameters       | <p>The following query parameters are supported, start, length, period, date, barcode, save with the following values:</p> <ul style="list-style-type: none"><li>• start=0-n</li><li>• length=1-n, anything else means all records.</li><li>• period=the last number of days to include in the report. If you want to report for the last month, you would specify 30.</li><li>• date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored.</li><li>• barcode=The media barcode</li><li>• save="name" where name is a file name to use to save the security event information to. The file format will be CSV.</li></ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> <p>If no query parameters are used the request will return all the media security event data.</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| <i>URI</i>      | <i>aml/media/reports/securityEvents</i>                                                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Request Data    | N/A                                                                                                                                                   |
| Response Codes  | 200, 403                                                                                                                                              |
| Response Header | Content-Type:application/xml or application/json<br>On success and save= parameter is used<br>Cookie: name= FileDownloadingProgressCookie, value=Done |
| Response Data   | See Figure 120: mediaSecurityEventList                                                                                                                |

**Table 143: POST aml/media/reports/securityEvents/email**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Email the list of media security records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 142: GET aml/media/reports/securityEvents.

**Note:** This is a licensed feature (Advanced Reporting).

| <i>URI</i>       | <i>aml/media/reports/securityEvents/email</i>    |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 65: email                             |
| Response Codes   | 200, 403, 412                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 144: GET aml/media/reports/tapeAlerts**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the list of tape alert records.

**Note:** This is a licensed feature (Advanced Reporting).

| <i>URI</i>       | <i>aml/media/reports/tapeAlerts</i>                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                             |
| User Role Access | Admin, Service, User                                                                                                                   |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                   |
| Parameters       | The following query parameters are supported, start, length, period, date, driveSerialNumber, barcode, save with the following values: |

| URI             | <i>aml/media/reports/tapeAlerts</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <ul style="list-style-type: none"> <li>• start=0-n</li> <li>• length=1-n, anything else means all records.</li> <li>• period=the last number of days to include in the report. If you want to report for the last week, you would specify 7.</li> <li>• date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored.</li> <li>• driveSerialNumber= The physical serial number of the drive</li> <li>• barcode=The media barcode</li> <li>• save="name" where name is a file name to use to save the tape alert information to. The file format will be CSV.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> <p>If no query parameters are used the request will return all the tape alert data.</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Response Codes  | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Response Header | Content-Type:application/xml or application/json<br>On success and save= parameter is used<br>Cookie: name=FileDownloadingProgressCookie, value=Done                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Data   | See Figure 178: tapeAlertList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Table 145: POST *aml/media/reports/tapeAlerts/email***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Email the list of drive tape alert records.

The tape alert records provide information as to which drive reported which Tape Alert while being loaded with which tape cartridge. The report information provides details to allow further analysis as to which media or which drive may be a cause for media or drive failures.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 144: GET aml/media/reports/tapeAlerts.

**Note:** This is a licensed feature (Advanced Reporting).

| URI              | <i>aml/media/reports/tapeAlerts/email</i>        |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | Figure 65: email                                 |
| Response Codes   | 200, 403, 412                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 146: GET aml/media/reports/usage**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of media usage records.

The media usage records provides media information capturing tape cartridge identification and media capacity and usage information as well as unrecovered and recovered read/write error count statistics.

**Note:** This is a licensed feature (Advanced Reporting).

| URI              | <i>aml/media/reports/usage</i>                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                |
| Parameters       | <p>The following query parameters are supported, start, length, period, date, barcode, save with the following values:</p> <ul style="list-style-type: none"> <li>• start=0-n</li> <li>• length=1-n, anything else means all records.</li> <li>• period=the last number of days to include in the report. If you want to report for the last month, you would specify 30.</li> <li>• date=At what date you want to start</li> </ul> |

| URI             | <i>aml/media/reports/usage</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <p>your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored.</p> <ul style="list-style-type: none"> <li>• barcode=The media barcode</li> <li>• save="name" where name is a file name to use to save the media usage information to. The file format will be CSV.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> <p>If no query parameters are used the request will return all the media usage data.</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Codes  | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Header | <p>Content-Type:application/xml or application/json</p> <p>On success and save= parameter is used</p> <p>Cookie: name=FileDownloadingProgressCookie, value=Done</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Data   | See Figure 123: mediaUsageList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Table 147: POST *aml/media/reports/usage/email***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Email the list of media usage records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 146: GET *aml/media/reports/usage*.

**Note:** This is a licensed feature (Advanced Reporting).

| URI              | <i>aml/media/reports/usage/email</i> |
|------------------|--------------------------------------|
| Method           | <b>POST</b>                          |
| User Role Access | Admin, Service, User                 |
| Version          | 700(i6k), 110(i3/i6)                 |
| Parameters       | N/A                                  |

| <b>URI</b>      | <b><i>aml/media/reports/usage/email</i></b>      |
|-----------------|--------------------------------------------------|
| Request Header  | Content-Type:application/xml or application/json |
| Request Data    | Figure 65: email                                 |
| Response Codes  | 200, 403, 412                                    |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                     |

**Table 148: GET aml/medium/{barcode}**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the media whose barcode is given by the URI path template “barcode”. To retrieve the media object whose barcode is “100000L6” use “aml/medium/100000L6”.

A list is returned where duplicate barcodes exist since multiple media may have the same barcode.

| <b>URI</b>       | <b><i>aml/medium/{barcode}</i></b>               |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 118: mediaList                        |

**Table 149: GET aml/partitions**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve all partition resource instances configure on the library.

| <b>URI</b>       | <b><i>aml/partitions</i></b>                                                                                                                                                                                                                                                                                                                                        |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                          |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                |
| Parameters       | <p>The following query parameters are supported, fields, with the following values</p> <ul style="list-style-type: none"> <li>fields=A comma separate list of partition object elements you want to retrieve values for. The partition elements id, name, type, mode and serialNumber will always be included and if the user specifies ‘fields=’, these</li> </ul> |

| URI             | aml/partitions                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <p>are the elements that will have real values. The elements that are supported are driveDomainType , storageSlotCount, emptyStorageSlotCount, driveCount, emptyDriveCount, ieSlotCount, emptyIeSlotCount, xieSlotCount, emptyXieSlotCount, ampExtensionsCount, mediaCount, barcodeReporting, vendorId, productId, controlPathProvider, policySettings.</p> <p>Note: This query parameter is only supported on the i6k.</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Codes  | 200                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Header | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                            |
| Response Data   | See Figure 139: partitionList                                                                                                                                                                                                                                                                                                                                                                                               |

**Table 150: POST aml/partitions**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Create a new partition resource. When using the partition XML object to create a partition, the following valid values apply:

- type: 1 (standard), 2 (EDLM), 3 (AMP), 4 (Active Vault)  
**Note:** The Scalar i6 supports type 1 (standard), 2 (EDLM), 4 (Active Vault). The Scalar i3 only supports type 1 (standard)
- driveDomainType: 0 (Unknown), 3 (LTO2), 4 (LTO3), 5 (LTO4), 6 (LTO5), 7 (LTO6), 8 (LTO7), 9 (LTO8)
- barcodeReporting: 1 (Prefix), 2 (Suffix), 3 (Disable), 4 (Pass Through) and 2 more for non-Scalar i6k products 5 (Standard Six), 6 (Plus Six)
- vendorId: 0 (ADIC), 1 (Quantum), – default 1
- productId: 0 (N/A), 1 (Scalar 24), 2 (Scalar 100), 3 (Scalar 1000), 4 (Scalar 10k), 5 (Scalar i500), 6 (Scalar i2000), 7 (Scalar i6000), 8 (Scalar i40-i80), 9 (Scalar i3-i6)  
**Note:** The productId value's 5, 6 and 7 can only be used if the vendorId 1 (Quantum) is selected. For vendorId 0 (ADIC) the productId value's 1,2,3,4,5 and 6 can be used. The Scalar i6k supports productId value's 1,2,3,4,5,6,7 and i3/i6 supports 5,7,8,9.

The example below creates a partition named “Test” with 2 LTO-5 drives and 300 slots.

The vendor id will be “Quantum”, the product id will be “Scalar i6000” and the barcodeReporting method policy will be “Pass Through”.

The required fields for creating a partition are: “name” and “type”.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partition xmlns:ns2="http://automatedMediaLibrary/">
  <name>Test</name>
  <type>1</type>
  <driveDomainType>6</driveDomainType>
  <storageSlotCount>300</storageSlotCount>
  <driveCount>2</driveCount>
  <ieSlotCount>12</ieSlotCount>
  <xieSlotCount>0</xieSlotCount>
  <ampExtensionsCount>0</ampExtensionsCount>
  <barcodeReporting>4</barcodeReporting>
  <vendorId>1</vendorId>
  <productId>7</productId>
</ns2:partition>
```

**Note:** The Scalar i3 and Scalar i6 does not support the following partition elements:

- isSlotCount
- xieSlotCount
- ampExtensionCount

A partition name can only contain the following characters: A-Z a-z 0-9 \_ and spaces

The maximum number of characters allowed is 64.

**Note:** The partition name ‘System’ (case-insensitive) cannot be used when connecting to Scalar i3 and Scalar i6 libraries as the “System” partition is a library reserved partition.

| URI              | aml/partitions                                   |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 140: partition                        |
| Response Codes   | 200, 403, 404, 412                               |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 140: partition                        |

**Table 151: GET aml/partitions/policy/activeVault**

**Description:** Get a list of activeVaultPolicy resources configured on the library. Active Vault policies are configured on standard partitions. The policies intercept host commands that export tape cartridges to library managed Active Vault partitions.

**Note:** Requires an Active Vault license.

**Note:** This interface is not supported in i3.

| URI              | aml/partitions/policy/activeVault                |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 5: activeVaultPolicyList              |

**Table 152: POST aml/partitions/policy/activeVault**

**Product Support:** Scalar i6k, Scalar i6

**Description:** Create a new active vault policy for partition named LL2. You can either choose an externalDefinedExport policy or a vaultDefinedExport policy but not both.

**Note:** Requires an Active Vault license.

| URI              | aml/partitions/policy/activeVault                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | POST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| User Role Access | Admin, Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Version          | 700(i6k), 110(i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Parameters       | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Request Header   | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Request Data     | <p>See Figure 6: activeVaultPolicy</p> <p>The following example would move any media barcode that contains the characters '00LTO5' to the active vault 'AV Partition' when the media is exported (moved to the IE station) from the partition 'LL2'.</p> <pre>&lt;?xml version="1.0" encoding="UTF-8" standalone="yes"?&gt; &lt;ns2:activeVaultPolicy xmlns:ns2="http://automatedMediaLibrary/"&gt;   &lt;partitionName&gt;LL2&lt;/partitionName&gt;   &lt;vaultDefinedExport&gt;     &lt;activeVaultName&gt;AV</pre> |

| URI             | <i>aml/partitions/policy/activeVault</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Partition</activeVaultName><br><mediaFilter>*00LTO5</mediaFilter><br></vaultDefinedExport><br></ns2:activeVaultPolicy><br><br><b>Note:</b> If the above mediaFilter element is used, it must be a comma delimited set of alphanumeric tokens, with an optional prefix or suffix wildcard (*).<br><br>The other option is to choose the external application server(s) configured on the library, see Table 333: GET aml/system/policy/externalApplicationServers. You would use the externalApplicationServers.name field. |
| Response Codes  | 201, 403, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Response Header | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Response Data   | See Figure 192: WSResultCode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Table 153: GET aml/partitions/policy/autoImport**

**Product Support:** Scalar i6k

**Description:** Retrieve the list of Auto Import Policy resources. The Auto Import feature allows the import of media from an AMP partition to a Standard partition based on an Auto Import Policy configured for a standard partition. The policy defines a range of media barcodes to use to determine which media get imported into which partition.

| URI              | <i>aml/partitions/policy/autoImport</i>          |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 9: autoImportPolicyList               |

**Table 154: GET aml/partitions/policy/autoExport****Product Support:** Scalar i6k

**Description:** Retrieve the list of Auto Export Policy resources. The Auto Export feature reroutes the export of media (media moves by a host to IE stations) from a Standard partition to an AMP partition. This feature can only be configured if there is an AMP partition configured.

| <i>URI</i>       | <i>aml/partitions/policy/autoExport</i>          |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 7: autoExportPolicyList               |

**Table 155: GET aml/partitions/policy/driveCleaning****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of drive cleaning policy resources configured on the library.

| <i>URI</i>       | <i>aml/partitions/policy/driveCleaning</i>       |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 34: driveCleaningPolicyList           |

**Table 156: GET aml/partitions/policy/edlm****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of edlmPolicy resources configured on the library.

| <i>URI</i>       | <i>aml/partitions/policy/edlm</i> |
|------------------|-----------------------------------|
| Method           | <b>GET</b>                        |
| User Role Access | Admin, Service, User              |
| Version          | 700(i6k), 110(i6)                 |
| Parameters       | N/A                               |
| Request Header   | N/A                               |

| URI             | <i>aml/partitions/policy/edlm</i>                |
|-----------------|--------------------------------------------------|
| Request Data    | N/A                                              |
| Response Codes  | 200                                              |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 50: edlmPolicyList                    |

**Table 157: POST *aml/partitions/policy/edlm***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Create a new edlm policy. The example below creates a policy for partition LL1:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:edlmPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL1</partitionName>
  <tapeAlert>
    <scanType>1</scanType>
    <count>3</count>
  </tapeAlert>
  <timeInterval>
    <quickScan>0</quickScan>
    <normalScan>365</normalScan>
    <fullScan>1095</fullScan>
  </timeInterval>
  <onImport>1</onImport>
  <scanPriority>2</scanPriority>
  <concurrentScans>0</concurrentScans>
  <continueOnError>true</continueOnError>
  <disableRasTicketGeneration>true</disableRasTicketGeneration>
  <externalPolicies>
    <externalApplicationServersName>The name of the external applications server's configuration
  </externalApplicationServersName>
    <mediaCopyPolicy>3</mediaCopyPolicy>
    <suspectCountScanType>1</suspectCountScanType>
  </externalPolicies>
</ns2:edlmPolicy>
```

| URI              | <i>aml/partitions/policy/edlm</i>                                                              |
|------------------|------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                    |
| User Role Access | Admin, Service                                                                                 |
| Version          | 700(i6k), 110(i6)                                                                              |
| Parameters       | N/A                                                                                            |
| Request Header   | Content-Type:application/xml or application/json                                               |
| Request Data     | Figure 51: edlmPolicy                                                                          |
| Response Codes   | 201, 403, 404, 412                                                                             |
| Response Header  | Content-Type:application/xml or application/json<br>Location: aml/partition/{name}/policy/edlm |
| Response Data    | See Figure 192: WSResultCode                                                                   |

**Table 158: GET aml/partitions/policy/ekm****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of partition encryption policy resources. Encryption key management systems generate, protect, store, and manage encryption keys. These keys are used by their respective tape drives to encrypt information being written to tape, and decrypt information being read from tape media. Encryption on the i6k tape library is enabled by partition only.

If a configured partition does not support EKM, it will not be included in this list.

**Note:** Encryption Key Management (EKM) is a licensable feature. While the Scalar i6k supports an EKM license for all encryption key management solutions, the Scalar i3 and Scalar i6 support an EKM and SKM license depending on the configured encryption key management solution.

| URI              | <i>aml/partitions/policy/ekm</i>                 |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Codes   | 200                                              |
| Response Data    | See Figure 141: partitionEncryptionPolicyList    |

**Table 159: GET aml/partitions/reports/utilization****Product Support:** Scalar i6k

**Description:** Retrieve the partition utilization file resource. The output below is a sample of what the report looks like.

The Partition Utilization Report provides information for library partition usage determination, capturing high watermark counts for drive, slot and media usage. The report information provides all necessary details to evaluate library and partition usage for proper sizing and/or usage determination, see below:

SN: 273190049

Date: Tue Jun 03 10:21:27 MDT 2014

```

----- June : 2014 -----
HIGH WATER MARKS:
DWM:2, SWM:12, MWM:2, PN:LL5
DWM:0, SWM:24, MWM:3, PN:AMP Part
DWM:1, SWM:24, MWM:3, PN:MEDIA Partition
DWM:3, SWM:12, MWM:6, PN:LL1
DWM:1, SWM:12, MWM:1, PN:edlm
DWM:0, SWM:108, MWM:17, PN:AV
DWM:1, SWM:18, MWM:0, PN:LL3

```

DWM:1, SWM:120, MWM:41, PN:LL2  
 DWM:1, SWM:120, MWM:2, PN:EDLM  
 DWM:0, SWM:12, MWM:1, PN:AMP  
 DWM:0, SWM:12, MWM:1, PN:amp partition  
 DWM:0, SWM:0, MWM:0, PN:JUnit Empty Partition  
 DWM:0, SWM:120, MWM:2, PN:AMPPY  
 DWM:2, SWM:660, MWM:126, PN:JUnit Standard LL One  
 DWM:0, SWM:330, MWM:55, PN:JUnit Active Vault Partition  
 DWM:2, SWM:660, MWM:126, PN:JUnit Standard Partition  
 DWM:1, SWM:24, MWM:2, PN:Sales Partition One  
 DWM:0, SWM:330, MWM:55, PN:JUnit AMP Partition  
 DWM:0, SWM:24, MWM:3, PN:AV Part  
 DWM:0, SWM:12, MWM:1, PN:amp  
 DWM:1, SWM:102, MWM:2, PN:LL4 IBM

#### PARTITION ACTIVITY:

Mon Jun 02 10:52:15 MDT 2014,LL1,0,0,0,Delete  
 Thu May 15 16:06:44 MDT 2014,Sales Partition One,1,24,2,Rename Sales Partition Sales Partition One  
 Fri May 09 16:24:29 MDT 2014,Sales Partition One,1,24,2,Create first  
 Tue May 27 14:59:38 MDT 2014,EDLM,0,0,0,Delete  
 Tue May 06 14:10:14 MDT 2014,EDLM,1,120,2,Create first

**Note:** This is a licensed feature (Partition Utilization).

| URI              | <i>aml/partitions/reports/utilization</i>                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Parameters       | <p>Optional query parameter is save, with the following valid values</p> <ul style="list-style-type: none"> <li>save="name" where name is a file name to use to save the partition utilization information to. The file format will be in text.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Codes   | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response Header  | <p>Content-Type: application/octet-stream</p> <p>On success and save= parameter is used</p> <p>Cookie: name= FileDownloadingProgressCookie, value=Done</p>                                                                                                                                                                                                                                                                                  |
| Response Data    | Partition utilization data                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Table 160: POST aml/partitions/reports/utilization/email****Product Support:** Scalar i6k**Description:** Email the Partition Utilization activity report. The information will be in an email attachment and the file format will be text.

| URI              | <i>aml/partitions/reports/utilization/email</i>  |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | Figure 65: email                                 |
| Response Codes   | 200, 403, 412                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 161: GET aml/partition/{name}****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the partition whose name is given by the URI path template “name”. To retrieve the partition name “Test Partition”, the following URI would be requested: “aml/partition/Test Partition”.

| URI              | <i>aml/partition/{name}</i>                      |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 140: partition                        |

**Table 162: PUT aml/partition/{name}****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Modify the partition whose name is given by the URI path template “name”.

The following URI “aml/partition/LL2” and XML request data will modify the partitions, name, barcodeReporting, vendorId and productId. These values are the only ones that can be modified through this URI. The serialNumber field must be specified as this is used to identify the partition you want to modify.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partition xmlns:ns2="http://automatedMediaLibrary/">
  <name>Partition2</name>
  <serialNumber>273190048_LL3</serialNumber>
  <barcodeReporting>1</barcodeReporting>
  <vendorId>1</vendorId>
  <productId>7</productId>
</ns2:partition>
```

To change other partition attributes see the following:

Table 164: GET aml/partition/{name}/ampExtensionsCount

Table 166: GET aml/partition/{name}/barcodeReporting

Table 175: GET aml/partition/{name}/mode

Table 177: GET aml/partition/{name}/name

Table 206: GET aml/partition/{name}/segments

Table 233: GET aml/physicalLibrary/segments

| URI              | aml/partition/{name}                             |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | Figure 140: partition                            |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 140: partition                        |

### Table 163: DELETE aml/partition/{name}

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the partition whose name is given by the URI path template “name”.

| URI              | aml/partition/{name}                             |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |

|               |                              |
|---------------|------------------------------|
| Response Data | See Figure 192: WSResultCode |
|---------------|------------------------------|

**Table 164: GET aml/partition/{name}/ampExtensionsCount**

**Product Support:** Scalar i6k

**Description:** Retrieve the current amp extensions count for the partition whose name is provided by the URI path template “name”.

A single string value will be returned that represents the current configured extension count.

**Note:** The count represents the number of segments/magazines.

| URI              | aml/partition/{name}/ampExtensionsCount     |
|------------------|---------------------------------------------|
| Method           | GET                                         |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k)                                    |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200, 404                                    |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | The number of AMP extensions                |

**Table 165: PUT aml/partition/{name}/ampExtensionsCount**

**Product Support:** Scalar i6k

**Description:** Change the partitions amp extensions count (segments). The number that is requested will be added or subtracted from the current extension count. If you want to add 5 segments to the current count, request 5. If you want to remove 4 segments, request -4.

This option only applies to standard partitions. •

| URI              | aml/partition/{name}/ampExtensionsCount                             |
|------------------|---------------------------------------------------------------------|
| Method           | PUT                                                                 |
| User Role Access | Admin, Service                                                      |
| Version          | 700(i6k)                                                            |
| Parameters       | N/A                                                                 |
| Request Header   | Content-Type:text/plain or application/json                         |
| Request Data     | The number of extensions to add or subtract from the current count. |
| Response Codes   | 200, 403, 404                                                       |
| Response Header  | Content-Type:application/xml or application/json                    |
| Response Data    | See Figure 192: WSResultCode                                        |

**Table 166: GET aml/partition/{name}/barcodeReporting****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the current barcodeReporting methodology (Prefix, Suffix, Disabled or Pass Through) of the partition whose name is given by the URI path template “name”.

A single string value will be returned and the possible values are:

- 1 (Prefix, Media ID First), expect and report barcode label's media id first
- 2 (Suffix, Media ID Last,) expect and report barcode label's media id last
- 3 (Disabled, Standard), report barcode identifier without media identifier
- 4 (Pass Through), report barcode label information as scanned on label
- 5 (Standard 6), expect and report 6 character barcode without media identifier
- 6 (Plus 6), expect 6 character barcode label with additional media identifier

**Note:** Barcode reporting methodology 5 and 6 are only supported by the Scalar i3/i6

| URI              | aml/partition/{name}/barcodeReporting       |
|------------------|---------------------------------------------|
| Method           | GET                                         |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200, 404                                    |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | 1,2,3,4,5 or 6 (5 and 6 only on i3/i6)      |

**Table 167: PUT aml/partition/{name}/barcodeReporting****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Change the partitions barcode reporting methodology whose name is given by the URI path template “name”.**Note:** This option only applies to standard partitions.**Note:** The partition's mode must change before a connected host will see these changes. To change the partitions mode, see: Table 175: GET aml/partition/{name}/mode.

| URI              | aml/partition/{name}/barcodeReporting       |
|------------------|---------------------------------------------|
| Method           | PUT                                         |
| User Role Access | Admin, Service                              |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | Content-Type:text/plain or application/json |
| Request Data     | 1,2,3 or 4                                  |

| URI             | <i>aml/partition/{name}/barcodeReporting</i>     |
|-----------------|--------------------------------------------------|
| Response Codes  | 200, 403, 404                                    |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                     |

**Table 168: GET *aml/partition/{name}/controlPath***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the list of control path capable drives for the partition whose name is given as the URI path template “name”.

| URI              | <i>aml/partition/{name}/controlPath</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Parameters       | Query parameter names are “dataStore”. The valid value for the named parameter are as follows: <ul style="list-style-type: none"> <li>dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is '0'. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for the Scalar i6k (added in version 739).</li> </ul> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Response Codes   | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Response Header  | Content-Type:text/plain or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Response Data    | See Figure 29: driveList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Table 169: PUT *aml/partition/{name}/controlPath***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the control path settings on the requested drives.

See the XML REQUEST DATA examples below for more details:

**Example 1:** Configure a Standard CP drive, no CPF. The controlPath type must be 2 and primary must be set to true.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
```

```

    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>2</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>

```

**Example 2:** To remove a CP drive, the controlPath type must be set to 1. This is also used to disable Control Path in the case where there are CPF drives configured. You only need to specify the CP drive to be disabled.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>1</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>

```

**Example 3:** Configure Basic CP/CPF pair. The controlPath type must be set to 3 and one of the drives must have primary set to true.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396043</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>3</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>false</primary>
        <type>3</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>

```

**Example 4:** Set the CP/CPF pair to advanced mode. The controlPath type must be set to 4.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396043</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>4</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>false</primary>
        <type>4</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>
```

**Example 5:** Remove a CPF drive from a CP/CPF pair. The CPF drive controlPath type must be set to 1 and the CP drive controlPath type must be set to 2.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396043</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>2</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>false</primary>
        <type>1</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>
```

**Example 6:** Add a basic CPF drive to an existing CP drive. Both drives must have their controlPath type set to 3.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
```

```

<drive>
  <logicalSerialNumber>F001396043</logicalSerialNumber>
  <settings>
    <controlPath>
      <primary>true</primary>
      <type>3</type>
    </controlPath>
  </settings>
</drive>
<drive>
  <logicalSerialNumber>F00139603D</logicalSerialNumber>
  <settings>
    <controlPath>
      <primary>false</primary>
      <type>3</type>
    </controlPath>
  </settings>
</drive>
</ns2:driveList>

```

**Example 7:** Add an advanced CPF drive to an existing ACPF cluster.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396025</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>false</primary>
        <type>4</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>

```

**Example 8:** Configure three multi control path drives. This would be the same for Advanced IBM control path, except the type field would be set to 6 instead of 5.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <!-- <physicalSerialNumber>GB120401FD</physicalSerialNumber> -->
    <logicalSerialNumber>F00139709D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>5</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <!-- <physicalSerialNumber>10WT017350</physicalSerialNumber> -->
    <logicalSerialNumber>F001397091</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>

```

```

        <type>5</type>
      </controlPath>
    </settings>
  </drive>
</drive>
  <!-- <physicalSerialNumber>10WT017242</physicalSerialNumber> -->
  <logicalSerialNumber>F001397097</logicalSerialNumber>
  <settings>
    <controlPath>
      <primary>true</primary>
      <type>5</type>
    </controlPath>
  </settings>
</drive>
</ns2:driveList>

```

To remove one or all the multi-control paths, supply the drive list to be removed and set the *type* field to 1.

When configuring multi path or an advanced control path configuration with IBM drives, the *primary* field must be set to true.

| URI              | <i>aml/partition/{name}/controlPath</i>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>PUT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| User Role Access | Admin, Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Parameters       | <p>The query parameters are takePartitionOffline. The valid values for the query parameters are as follows</p> <ul style="list-style-type: none"> <li>takePartitionOffline = true or false (this parameter allows you to take the partition offline before the operation is performed. The partition will be taken online when the operation has completed. If the partition was already offline before the operation was performed, it will be left in that state.)</li> </ul> |
| Request Header   | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Request Data     | See Figure 29: driveList                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Response Codes   | 200, 403, 404, 412                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Response Data    | See Figure 29: driveList                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Table 170: GET *aml/partition/{name}/dataPath***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of drive resources that are data path failover capable who belong to the partition whose name is provided by the URI path template “name”. A drive is data path failover capable if it is internally Ethernet connected, drive generation LTO5 or greater and properly licensed for redundancy/failover configuration.

| <b>URI</b>       | <b><i>aml/partition/{name}/dataPath</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Parameters       | <p>Query parameter names are “dataStore”. The valid value for the named parameter are as follows:</p> <ul style="list-style-type: none"> <li>dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is ‘0’. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for the Scalar i6k (added in version 739).</li> </ul> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Response Codes   | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Response Header  | Content-Type: application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response Data    | See Figure 29: driveList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Table 171: PUT *aml/partition/{name}/dataPath***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the drive resources data path failover settings who belong to the partition whose name is provided by the URI path template “name”.

| <b>URI</b>       | <b><i>aml/partition/{name}/dataPath</i></b>       |
|------------------|---------------------------------------------------|
| Method           | <b>PUT</b>                                        |
| User Role Access | Admin, Service                                    |
| Version          | 700(i6k), 110(i3/i6)                              |
| Parameters       | N/A                                               |
| Request Header   | Content-Type: application/xml or application/json |
| Request Data     | See Figure 29: driveList                          |
| Response Codes   | 200, 403, 404                                     |
| Response Header  | Content-Type: application/xml or application/json |
| Response Data    | See Figure 29: driveList                          |

**Table 172: GET aml/partition/{name}/driveSerialNumbers****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve a list of drive serial numbers for the drives that are configured in the partition whose name is provided by the URI path template “name”.

| URI              | aml/partition/{name}/driveSerialNumbers          |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 41: driveSerialNumberList             |

**Table 173: POST aml/partition/{name}/driveSerialNumbers****Product Support:** Scalar i6k**Description:** Add the drives with the serial numbers given in the driveSerialNumberList to the partition whose name is provided by the URI path template “name”.

The example below adds the drives with logical serial number, F001396031 and F001396007 to the partition whose name is provided by the URI path template “name”.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveSerialNumberList xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396031</serialNumber>
  <serialNumber>F001396007</serialNumber>
</ns2:driveSerialNumberList>
```

| URI              | aml/partition/{name}/driveSerialNumbers          |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 41: driveSerialNumberList             |
| Response Codes   | 200, 403, 404, 412                               |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 41: driveSerialNumberList             |

**Table 174: DELETE aml/partition/{name}/driveSerialNumbers****Product Support:** Scalar i6k

**Description:** Remove the drives with the serial numbers given in the driveSerialNumberList from the partition whose name is provided by the URI path template “name”.

The example below removes the drive with logical serial number, F001396007 from the partition whose name is provided by the URI path template “name”.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveSerialNumberList xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396007</serialNumber>
</ns2:driveSerialNumberList>
```

| URI              | aml/partition/{name}/driveSerialNumbers          |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 41: driveSerialNumberList             |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 41: driveSerialNumberList             |

**Table 175: GET aml/partition/{name}/mode****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the current mode (Online/Offline) of the partition whose name is provided by the URI path template “name”.

A single string value will be returned and the possible values are:

1 (online) or 2 (offline)

| URI              | aml/partition/{name}/mode                   |
|------------------|---------------------------------------------|
| Method           | <b>GET</b>                                  |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200, 404                                    |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | 1 or 2                                      |

**Table 176: PUT aml/partition/{name}/mode****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Change the partition mode, 1 (Online) or 2 (Offline) of the partition whose name is given by the URI path template “name”. This option only applies to standard partitions or LTFS partitions.

| URI              | aml/partition/{name}/mode                                                        |
|------------------|----------------------------------------------------------------------------------|
| Method           | <b>PUT</b>                                                                       |
| User Role Access | i6k - Admin, Service<br>I3/i6 – Admin, Service, User (Partition Access Required) |
| Version          | 700(i6k), 110(i3/i6)                                                             |
| Parameters       | N/A                                                                              |
| Request Header   | Content-Type:text/plain or application/json                                      |
| Request Data     | 1 or 2                                                                           |
| Response Codes   | 200, 403, 404                                                                    |
| Response Header  | Content-Type:application/xml or application/json                                 |
| Response Data    | See Figure 192: WSResultCode                                                     |

**Table 177: GET aml/partition/{name}/name****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the current name of the partition whose name is provided by the URI path template 'name'. The return name should be the same as the 'name' template.

| URI              | aml/partition/{name}/name                   |
|------------------|---------------------------------------------|
| Method           | <b>GET</b>                                  |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200, 404                                    |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | The name of the partition                   |

**Table 178: PUT aml/partition/{name}/name****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Change the partition’s name of the partitions whose name is given by the URI path template “name”. A partition name can only contain the following characters:

A-Z a-z 0-9 \_ and spaces

The maximum number of character allowed is 64.

| <b>URI</b>       | <b><i>aml/partition/{name}/mode</i></b>     |
|------------------|---------------------------------------------|
| Method           | <b>PUT</b>                                  |
| User Role Access | Admin, Service                              |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | Content-Type:text/plain or application/json |
| Request Data     | The new name of the partition               |
| Response Codes   | 200, 403, 404                               |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | See Figure 192: WSResultCode                |

**Table 179: GET aml/partition/{name}/operations**

**Product Support:** Scalar i6k

**Description:** Retrieve the list of task resources that were started/requested by the partition whose name is given by the URI path template “name”.

| <b>URI</b>       | <b><i>aml/partition/{name}/operations</i></b>    |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 180: taskList                         |

**Table 180: GET aml/partition/{name}/operations/autoImport**

**Product Support:** Scalar i6k

**Description:** Retrieve a list of auto import media tasks that were requested on the AMP partition whose name is provided by the URI path template “name”.

| <b>URI</b>       | <b><i>aml/partition/{name}/operations/autoImport</i></b> |
|------------------|----------------------------------------------------------|
| Method           | <b>GET</b>                                               |
| User Role Access | Admin, Service, User                                     |
| Version          | 700(i6k)                                                 |
| Parameters       | N/A                                                      |
| Request Header   | N/A                                                      |
| Request Data     | N/A                                                      |
| Response Codes   | 200, 404                                                 |
| Response Header  | Content-Type:application/xml or application/json         |
| Response Data    | See Figure 180: taskList                                 |

**Table 181: POST aml/partition/{name}/operations/autoImport**

**Product Support:** Scalar i6k

**Description:** Start an Auto Import on the partition whose name is provided by the URI path template “name”.

The partition must be a library-managed AMP partition type.

**Note:** This is an asynchronous request. The new task object URI that was created will be included in the ‘Location’ header of the response, see Figure 181: task.

To determine if an auto import task has completed, check the state element of the task object, when complete the state should be 5 (Completed), see Figure 181: task.

| URI              | aml/partition/{name}/operations/autoImport       |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 182: GET aml/partition/{name}/operations/autoImport/{id}**

**Product Support:** Scalar i6k

**Description:** Retrieve the task object with the id given by URI path template “id” and the componentId (partition name) given by URI path template “name”.

| URI              | aml/partition/{name}/operations/autoImport/{id}  |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 181: task                             |

**Table 183: DELETE aml/partition/{name}/operations/autoImport/{id}**

**Product Support:** Scalar i6k

**Description:** Delete the task object with the id given by URI path template “id” and the componentId given by URI path template “name”.

**Note:** This does not stop the specific auto import request. It is a way to clean up operation tasks from the library's database.

| URI              | <i>aml/partition/{name}/operations/autoImport/{id}</i> |
|------------------|--------------------------------------------------------|
| Method           | <b>DELETE</b>                                          |
| User Role Access | Admin, Service                                         |
| Version          | 700(i6k)                                               |
| Parameters       | N/A                                                    |
| Request Header   | N/A                                                    |
| Request Data     | N/A                                                    |
| Response Codes   | 200, 403, 404                                          |
| Response Header  | Content-Type:application/xml or application/json       |
| Response Data    | See Figure 192: WSResultCode                           |

**Table 184: GET *aml/partition/{name}/operations/inventory***

**Product Support:** Scalar i6k

**Description:** Retrieve the list of inventory tasks resources that were started/requested by the partition whose name is given by the URI path template “name”.

| URI              | <i>aml/partition/{name}/operations/inventory</i> |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 180: taskList                         |

**Table 185: POST *aml/partition/{name}/operations/inventory***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Request the library to do an inventory for the partition whose name is given by the URI path template “name”.

The startElement must be a valid element address, if the elementCount is greater than the number of elements, the inventory will ignore the extra elements. To inventory the whole partition, set the startElement to 0 and the elementCount to 65000.

If the partition is not taken offline the inventory will fail. On the i6k, the physical library must be online before you can inventory a partition.

The example below requests to do an inventory of the first 10 slots in the partition.

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:inventoryTask xmlns:ns2="http://automatedMediaLibrary/">
  <offline>true</offline>
```

```

<startElement>4096</startElement>
<elementCount>10</elementCount>
</ns2:inventoryTask>

```

**Note:** The Scalar i6k supports an inventory as an asynchronous request. The new task resource URI that was created will be included in the 'Location' header of the response. See Table 185: POST aml/partition/{name}/operations/inventory.

In the Scalar i3/i6, the request is synchronous which blocks until the inventory completes.

| URI              | aml/partition/{name}/operations/inventory                                                                  |
|------------------|------------------------------------------------------------------------------------------------------------|
| Method           | POST                                                                                                       |
| User Role Access | i6k - Admin, Service<br>I3/i6 – Admin, Service, User (Partition Access Required)                           |
| Version          | 700(i6k), 110(i3/i6)                                                                                       |
| Parameters       | N/A                                                                                                        |
| Request Header   | Content-Type:application/xml or application/json                                                           |
| Request Data     | See Figure 97: inventoryTask (i6k only)                                                                    |
| Response Codes   | 202(i6k) 200(I3/i6), 403, 404                                                                              |
| Response Header  | Content-Type:application/xml or application/json<br>Location:<br>aml/partition/{name}/operations/inventory |
| Response Data    | See Figure 192: WSResultCode                                                                               |

**Table 186: GET aml/partition/{name}/operations/inventory/{taskId}**

**Product Support:** Scalar i6k

**Description:** Retrieve the inventory tasks resources that were started/requested by the partition whose name is given by the URI path template “name” and whose task id is given by the URI path template “taskId”.

To determine if an inventory task has completed, check the state element of the task object, when complete the state should be 5 (Completed). See Figure 181: task, for more details.

| URI              | aml/partition/{name}/operations/inventory/{taskId} |
|------------------|----------------------------------------------------|
| Method           | GET                                                |
| User Role Access | Admin, Service, User                               |
| Version          | 700(i6k)                                           |
| Parameters       | N/A                                                |
| Request Header   | N/A                                                |
| Request Data     | N/A                                                |
| Response Codes   | 200, 404                                           |
| Response Header  | Content-Type:application/xml or application/json   |
| Response Data    | See Figure 181: task                               |

**Table 187: DELETE aml/partition/{name}/operations/inventory/{taskId}****Product Support:** Scalar i6k**Description:** Delete the inventory task resources that were started/requested by the partition whose name is given by the URI path template “name” and whose task id is given by the URI path template “taskId”.

The task must be completed (See Figure 181: task) before it can be deleted.

| URI              | aml/partition/{name}/operations/inventory/{taskId} |
|------------------|----------------------------------------------------|
| Method           | DELETE                                             |
| User Role Access | Admin, Service                                     |
| Version          | 700(i6k)                                           |
| Parameters       | N/A                                                |
| Request Header   | N/A                                                |
| Request Data     | N/A                                                |
| Response Codes   | 200, 403, 404                                      |
| Response Header  | Content-Type:application/xml or application/json   |
| Response Data    | See Figure 192: WSResultCode                       |

**Table 188: GET aml/partition/{name}/policy/activeVault****Product Support:** Scalar i6k, Scalar i6**Description:** Retrieve the active vault policy resources for the partition whose name is given by the URI path template “name”.

| URI              | aml/partition/{name}/policy/activeVault          |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 6: activeVaultPolicy                  |

**Table 189: PUT aml/partition/{name}/policy/activeVault****Product Support:** Scalar i6k, Scalar i6**Description:** Modify the active vault policy resources for the partition whose name is given by the URI path template “name”.

To create a new active vault policy, see Table 152: POST aml/partitions/policy/activeVault.

The example below modifies the active vault policy for partition LL2. Instead of using StorNext to decide what to do on an export, move the media directly to the AV Partition vault.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:activeVaultPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL2</partitionName>
  <vaultDefinedExport>
    <activeVaultName>AV Partition</activeVaultName>
  </vaultDefinedExport>
</ns2:activeVaultPolicy>
```

**Note:** This is a licensed feature (Active Vault).

| URI              | <i>aml/partition/{name}/policy/activeVault</i>   |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 6: activeVaultPolicy                  |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 6: activeVaultPolicy                  |

**Table 190: DELETE *aml/partition/{name}/policy/activeVault***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Delete the active vault policy resources for the partition whose name is given by the URI path template “name”.

| URI              | <i>aml/partition/{name}/policy/activeVault</i>   |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 191: GET aml/partition/{name}/policy/autoImport****Product Support:** Scalar i6k**Description:** Retrieve Auto Import Policy resource for the partition whose name is given by the URI path template “name”.

The Auto Import feature allows the import of media from an AMP partition to a Standard partition based on an Auto Import Policy configured for each standard partition. The policy defines a range of media barcodes to use to determine which media gets imported into which partition.

| URI              | aml/partition/{name}/policy/autoImport           |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 10: autoImportPolicy                  |

**Table 192: PUT aml/partition/{name}/policy/autoImport****Product Support:** Scalar i6k**Description:** Update the Auto Import Policy resource for the partition whose name is given by the URI path template “name”.

The required autoImportPolicy fields required are partitionName, which should be a valid partition name and match the URI path name.

If the mediaBarcodeFilter is not given or is an empty string, then Auto Import will be turned off for this partition.

The mediaBarcodeFilter is constrained to the following regex "[a-zA-Z0-9]{5,15}-[a-zA-Z0-9]{5,15};?\s\*". Examples of valid ranges are as follows:

000100-000200  
 00500-00550; 00000700-00000900  
 100400900-100500000

Examples of invalid ranges:

000200-000100  
 000100-000400; 000200-000300

| URI              | aml/partition/{name}/policy/autoImport |
|------------------|----------------------------------------|
| Method           | PUT                                    |
| User Role Access | Admin, Service                         |
| Version          | 700(i6k)                               |

| URI             | <i>aml/partition/{name}/policy/autoImport</i>    |
|-----------------|--------------------------------------------------|
| Parameters      | N/A                                              |
| Request Header  | Content-Type:application/xml or application/json |
| Request Data    | See Figure 10: autoImportPolicy                  |
| Response Codes  | 200, 403, 404                                    |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 10: autoImportPolicy                  |

**Table 193: GET *aml/partition/{name}/policy/autoExport***

**Product Support:** Scalar i6k

**Description:** Retrieve the Auto Export policy resource for the partition whose name is given by the URI path template “name”.

The Auto Export feature reroutes media that have been moved from a standard partition storage slot to an IE station by a host application to an AMP partition.

| URI              | <i>aml/partition/{name}/policy/autoExport</i>    |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 8: autoExportPolicy                   |

**Table 194: PUT *aml/partition/{name}/policy/autoExport***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the Auto Export Policy resource for the partition whose name is given by the URI path template “name”.

To configure an Auto Export policy for partition LL1 and have the media rerouted to the AMP partition Amp1 you would use the following:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoExportPolicy
  xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL2</partitionName>
  <destinationAmpPartitionName>amp</destinationAmpPartitionName>
</ns2:autoExportPolicy>
```

To un-configure Auto Export for partition LL2, do the following:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

```

<ns2:autoExportPolicy
  xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL2</partitionName>
</ns2:autoExportPolicy>

```

An Auto Export policy can only be configured for a Standard partition. You cannot configure an Auto Export policy if no AMP partitions exist. If a partition has an Active Vault policy configured then you cannot configure an Auto Export policy on it.

| URI              | <i>aml/partition/{name}/policy/autoExport</i>    |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 8: autoExportPolicy                   |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 8: autoExportPolicy                   |

**Table 195: GET *aml/partition/{name}/policy/driveCleaning***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the drive cleaning policy resource for the partition whose name is given by the URI path template “name”.

| URI              | <i>aml/partition/{name}/policy/driveCleaning</i> |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 35: driveCleaningPolicy               |

**Table 196: POST *aml/partition/{name}/policy/driveCleaning***

**Product Support:** Scalar i6k

**Description: DEPRECATED.** Create a new drive cleaning policy for the partition whose name is given by the URI path template “name”. The mountCount element should only be used for EDLM partitions.

**Note:** As of i12.1, it is recommended you use the PUT method instead of this POST method.

| URI              | <i>aml/partition/{name}/policy/driveCleaning</i> |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 35: driveCleaningPolicy               |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 35: driveCleaningPolicy               |

**Table 197: PUT *aml/partition/{name}/policy/driveCleaning***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the drive cleaning policy resource for the partition whose name is given by the URI path template “name”.

**Note:** As of i12.1, the enabled element has been added to the driveCleaningPolicy object. This must be used to determine if a cleaning policy be applied to the partition.

| URI              | <i>aml/partition/{name}/policy/driveCleaning</i> |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 35: driveCleaningPolicy               |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 35: driveCleaningPolicy               |

**Table 198: DELETE *aml/partition/{name}/policy/driveCleaning***

**Product Support:** Scalar i6k

**Description: DEPRECATED.** Delete the drive cleaning policy resources for the partition whose name is given by the URI path template “name”.

**Note:** As of Scalar i6k firmware release i12.1, it is recommended you use the PUT method instead of this DELETE method.

| URI              | <i>aml/partition/{name}/policy/driveCleaning</i> |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |

| URI             | <i>aml/partition/{name}/policy/driveCleaning</i> |
|-----------------|--------------------------------------------------|
| Request Header  | N/A                                              |
| Request Data    | N/A                                              |
| Response Codes  | 200, 403, 404                                    |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                     |

**Table 199: GET *aml/partition/{name}/policy/driveLeveling***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the drive leveling policy resource for the partition whose name is given by the URI path template “name”. The drive leveling policy uses specified drive firmware images(s) to be used on the different drive generations configured in the partition. To see what firmware images are currently available/installed on the library, see the following interface: Table 77: GET *aml/drives/firmware/images*.

The type element provides three options, 0 (No drive leveling), 1 (Auto leveling) and 2 (Selective leveling).

**Note:** The Scalar i6k supports only options 0 and 2.

| URI              | <i>aml/partition/{name}/policy/driveLeveling</i> |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 36: driveLevelingPolicy               |

**Table 200: PUT *aml/partition/{name}/policy/driveLeveling***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the drive leveling policy resource for the partition whose name is given by the URI path template “name”. See examples below for details:

**Example 1:** Add another firmware file to be used for leveling drives in a partition. The firmware file(s) selected must be compatible with the drive(s) configured in the library. In this example we are adding firmware file “LTO6\_D7Y0.fcp\_fh.fmrz”. For every PUT request you must specify all the firmware files you want to apply to the partition. In this example you need to include “LTO6FH\_FC\_J3KZ.E” even though it is already configured.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLevelingPolicy
```

```

xmlns:ns2="http://automatedMediaLibrary/">
<partition>LL1</partition>
<type>2</type>
<firmwareFile>
  <name>LTO6FH_FC_J3KZ.E</name>
  <version>J3KZ</version>
  <vendor>HP</vendor>
  <type>LTO6</type>
</firmwareFile>
<firmwareFile>
  <name>LTO6_D7Y0.fcp_fh.fmrz</name>
  <version>D7Y0</version>
  <vendor>IBM</vendor>
  <type>LTO6</type>
</firmwareFile>
</ns2:driveLevelingPolicy>

```

**Example 2:** Remove firmware file “LTO6FH\_FC\_J3KZ.E” from the current configuration. The firmware file to be deleted is not included in the request.

Basically, this firmware file object is not included in the request. Again, when you want to configure selective drive leveling you must always include all the leveling firmware files in the request.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLevelingPolicy
  xmlns:ns2="http://automatedMediaLibrary/">
  <partition>LL1</partition>
  <type>2</type>
  <firmwareFile>
    <name>LTO6_D7Y0.fcp_fh.fmrz</name>
    <version>D7Y0</version>
    <vendor>IBM</vendor>
    <type>LTO6</type>
  </firmwareFile>
</ns2:driveLevelingPolicy>

```

**Note:** The Scalar i6k does not support driveLevelingPolicy.type 1 (Auto Leveling)

| URI              | <i>aml/partition/{name}/policy/driveLeveling</i> |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 36: driveLevelingPolicy               |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 36: driveLevelingPolicy               |

**Table 201: GET aml/partition/{name}/policy/edlm****Product Support:** Scalar i6k, Scalar i6**Description:** Retrieve the edlm policy resources for the partition whose name is given by the URI path template “name”.

| URI              | aml/partition/{name}/policy/edlm                 |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 51: edlmPolicy                        |

**Table 202: PUT aml/partition/{name}/policy/edlm****Product Support:** Scalar i6k, Scalar i6**Description:** Modify the edlm policy resources for the partition whose name is given by the URI path template “name”.

The example below modifies the policy such that RAS ticket generation and notification is disabled on bad or suspect media and scan policy is scheduled every 30 days for normal scans and 60 days for full scans.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:edlmPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL1</partitionName>
  <disableRasTicketGeneration>true</disableRasTicketGeneration>
  <timeInterval>
    <quickScan>0</quickScan>
    <normalScan>30</normalScan>
    <fullScan>60</fullScan>
  </timeInterval>
</ns2:edlmPolicy>
```

**Note:** This is a licensed feature (EDLM).

| URI              | aml/partition/{name}/policy/edlm                 |
|------------------|--------------------------------------------------|
| Method           | PUT                                              |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 51: edlmPolicy                        |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 51: edlmPolicy                        |

**Table 203: DELETE aml/partition/{name}/policy/edlm****Product Support:** Scalar i6k, Scalar i6**Description:** Delete the edlm policy resources for the partition whose name is given by the URI path template “name”.

| URI              | aml/partition/{name}/policy/edlm                 |
|------------------|--------------------------------------------------|
| Method           | DELETE                                           |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i6)                                |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 204: GET aml/partition/{name}/policy/ekm****Description:** Retrieve the encryption key management (EKM) policy for the partition with the name given by URI path template “name”.**Product Support:** Scalar i6k, Scalar i3, Scalar i6

| URI              | aml/partition/{name}/policy/ekm                  |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 142: partitionEncryptionPolicy        |

**Table 205: PUT aml/partition/{name}/policy/ekm****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Update the encryption key management (EKM) policy for the partition with the name given by URI path template “name”.**Note:** This is a licensed feature (EKM and/or SKM).

| URI              | aml/partition/{name}/policy/ekm |
|------------------|---------------------------------|
| Method           | PUT                             |
| User Role Access | Admin, Service                  |
| Version          | 700(i6k), 110(i3/i6)            |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>URI</b>      | <b><i>aml/partition/{name}/policy/ekm</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Parameters      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Request Header  | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Request Data    | <p>See Figure 142: partitionEncryptionPolicy<br/>The Request data will be a little different depending on the ekmServerType requested, see the following examples for details:</p> <pre>&lt;ns2:partitionEncryptionPolicy xmlns:ns2="http://automatedMediaLibrary/"&gt;   &lt;partitionName&gt;LL2&lt;/partitionName&gt;   &lt;ekmServerType&gt;4&lt;/ekmServerType&gt;   &lt;libraryManaged&gt;true&lt;/libraryManaged&gt;   &lt;fipsEnabled&gt;false&lt;/fipsEnabled&gt;   &lt;keyReuse&gt;false&lt;/keyReuse&gt;   &lt;keyType&gt;2&lt;/keyType&gt; &lt;/ns2:partitionEncryptionPolicy&gt;</pre> <p>The element fipsEnabled does not apply to partitions with IBM drives or for ekmServerType 8 (QEKM) and 32 (TKLM).</p> <p>The ekmServerType 8 and 32 (QEKM/TKLM) only applies to partitions containing only IBM drives.</p> <p><b>Note:</b> The partition must be taken offline before you can change the EKM policy. All drives in the partition must be unloaded before this request can be processed. The ekmServerType selected must be configured before you can set a policy to libraryManaged. If the server is currently configured by another partition to Key Per Library (keyType) then you must select the same keyType. If Key Per Partition is configure by another partition for this server type, then only Key Per Partition or Key Per Media can be selected. If Key Per Media is configure by another partition for this server type, then only Key Per Media or Key Per Partition can be selected.</p> |
| Response Codes  | 200, 403, 404, 412                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Header | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Response Data   | See Figure 142: partitionEncryptionPolicy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Table 206: GET aml/partition/{name}/segments****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the segments resources for the partition given by URI path template “name”.

| URI              | aml/partition/{name}/segments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Parameters       | <p>Query parameters names are type, state, start, length, frame and rack with the following valid values:</p> <ul style="list-style-type: none"> <li>• type=“storage”, “ie”, “drive” or “xie”</li> <li>• state=“full” or “empty”</li> <li>• start=0-n</li> <li>• length=1-n, anything else means all records.</li> <li>• frame=0 – maximum number of frames</li> <li>• rack = 1 or 2 So to retrieve all segments in one call,</li> </ul> <p>“aml/partition/{name}/segments?start=0&amp;length=-1” which is the default if no range is specified.<br/>To retrieve all drive segments<br/>“aml/partition/{name}/segments?type=drive”</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response Codes   | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Response Data    | See Figure 169: segmentList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**Table 207: POST aml/partition/{name}/segments****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Add the list of segments to the partition whose name is given by URI path template “name”. The added segments must not be currently owned by this partition or another partition, they must be available. To discover which segments are available, use the following URI: Table 233: GET aml/physicalLibrary/segments.**Example 1:** To add a drive to a partition, send the request shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>1</frame>
      <rack>1</rack>
      <section>2</section>
      <column>1</column>
      <row>1</row>
    </coordinate>
  </segment>
</ns2:segmentList>
```

```

        <type>4</type>
    </coordinate>
</segment>
</ns2:segmentList>

```

**Example 2:** Add 2 storage segments and on IE segment.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>7</section>
      <column>3</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>8</section>
      <column>3</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
  </segment>
  <segment>
    <coordinate>
      <frame>1</frame>
      <rack>2</rack>
      <section>2</section>
      <column>3</column>
      <row>1</row>
      <type>3</type>
    </coordinate>
  </segment>
</ns2:segmentList>

```

**Example 3:** The above 2 requests combined into one single request.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>1</frame>
      <rack>1</rack>
      <section>2</section>
      <column>1</column>
      <row>1</row>
      <type>4</type>
    </coordinate>
  </segment>

```

```

    </coordinate>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>7</section>
      <column>3</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>8</section>
      <column>3</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
  </segment>
  <segment>
    <coordinate>
      <frame>1</frame>
      <rack>2</rack>
      <section>2</section>
      <column>3</column>
      <row>1</row>
      <type>3</type>
    </coordinate>
  </segment>
</ns2:segmentList>

```

The following URI can be used to find what segments are currently available (not part of an existing partition): Table 233: GET aml/physicalLibrary/segments.

| <b>URI</b>       | <b><i>aml/partition/{name}/segments</i></b>      |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 169: segmentList                      |
| Response Codes   | 201, 403, 404, 412                               |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 169: segmentList                      |

**Table 208: DELETE aml/partition/{name}/segments****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Delete the list of segments from the partition whose name is given by the URI path template “name”.

| URI              | aml/partition/{name}/segments                    |
|------------------|--------------------------------------------------|
| Method           | DELETE                                           |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 169: segmentList                      |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 169: segmentList                      |

**Table 209: PUT aml/partition/{name}/segments****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Reconfigure the partition whose name is given by the URI path template “name” with the new segmentList request data. The segmentList can contain storage, drive, ie and extended ie segments. The segmentList can contain segments that currently belong to the partition or available (non-allocated) segments. You cannot assign segments that are currently owned by another partition.

The example below reconfigures a partition with one drive and 3 storage segments (18 slots).

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>1</frame>
      <rack>1</rack>
      <section>9</section>
      <column>1</column>
      <row>1</row>
      <type>4</type>
    </coordinate>
    <size>1</size>
    <configuredType>0</configuredType>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>1</section>
```

```

        <column>4</column>
        <row>1</row>
        <type>2</type>
    </coordinate>
    <size>6</size>
    <configuredType>0</configuredType>
</segment>
<segment>
    <coordinate>
        <frame>0</frame>
        <rack>1</rack>
        <section>2</section>
        <column>4</column>
        <row>1</row>
        <type>2</type>
    </coordinate>
    <size>6</size>
    <configuredType>0</configuredType>
</segment>
<segment>
    <coordinate>
        <frame>0</frame>
        <rack>1</rack>
        <section>3</section>
        <column>4</column>
        <row>1</row>
        <type>2</type>
    </coordinate>
    <size>6</size>
    <configuredType>0</configuredType>
</segment>
</ns2:segmentList>

```

| <b>URI</b>       | <b><i>aml/partition/{name}/segments</i></b>      |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 169: segmentList                      |
| Response Codes   | 200, 403, 404, 412                               |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 169: segmentList                      |

**Table 210: GET aml/physicalLibrary**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the physical library resource instances.

**Note:** The autoClean element is deprecated in the Scalar i6k as of firmware release i12. Refer to the following interface: Table 195: GET aml/partition/{name}/policy/driveCleaning to change partition cleaning policies.

**Note:** The autoConfiguration and autoCalibration feature are no longer supported as of Scalar i6k firmware release i12.

| URI              | aml/physicalLibrary                              |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 143: physicalLibrary                  |

**Table 211: PUT aml/physicalLibrary**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the physical library settings features. The settings that can be modified are listed in the physicalLibrary.phySettings object, and include the following features:

- driveSerialNumberSpoofing – enable or disable the ability for the library to present drives with logical serial numbers, rather than physical serial numbers, to a host.

**Note:** The library needs to be power cycled (See Table 221: POST aml/physicalLibrary/operations/shutdown) before the changes take effect. This only applies to Scalar i6k libraries.

- autoInventory – enable/disable a library inventory every time the library is rebooted or a Scalar i6k main access door closes.
- autoCalibration – Not used. Deprecated in Scalar i6k as of firmware release i12 (680Q/680H).
- autoConfiguration –This feature is deprecated in i12 (680Q/680H).
- autoCleaning – Not used. Deprecated in Scalar i6k as of firmware release i12 (680Q/680H). Drive cleaning is now configured on a partition basis, see Table 195: GET aml/partition/{name}/policy/driveCleaning.

- autoDriveUnload – enable/disable functionality for the library to perform drive unload and eject operation if the host application does not perform drive unload requests to a drive prior to requesting the tape library to move media from a drive to a new location.
- Ipv6 – Support for IPv6 configurations is enabled by default and not changeable.  
**Note:** Enabling and disabling functionality has been deprecated as of Scalar i6k firmware release i12.3.
- extendedIe – Enable/Disable extended IE feature.  
**Note:** Supported in Scalar i6k only.
- sendUsageStatistics – Determines the notification interval in which the library sends library usage and performance data to Quantum.
- healthCheck – Defines the interval in which the library performs automatic health checks on the robot(s), tower(s) and robotic power rails. The intervals are defined in days (0-180), 0 indicating the health check is turned off.  
**Note:** This feature is only supported by the Scalar i6k.
- aisleLights – Defines the time period the aisle lights will be turned on. Valid values are 30 or 60 minutes, or 0 for always turned off.  
**Note:** This feature is only supported by the Scalar i6k.
- webCamera – Set the IP of the host that is running the application that is managing the camera mounted in the library.  
**Note:** This feature is only supported by the Scalar i6k.
- icmpService – enable/disable the capability for device on the network to ping the library.
- sshService – Enable/disable the capability to establish a secure shell (ssh) connection to the library.
- cliService – Enable/disable support for the legacy command line interface (CLI).  
**Note:** This feature is only supported by the Scalar i6k.
- xmlInterfaceService – Enable/disable the Quantum Vision access interface.  
**Note:** This feature is only supported by the Scalar i6k.
- serviceLogin – Enable/disable the ability of a Service user to login to the library from local and remote interfaces, i.e. Graphical User.

To enable a service user to have access from the local user interface for a period of 6 hours you would use the following:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:physicalLibrary xmlns:ns2="http://automatedMediaLibrary/">
  <phySettings>
    <serviceLogin>
      <enabled>true</enabled>
```

```

    <enabledRemoteAccess>false</enabledRemoteAccess>
    <remoteAccessTimeout>0</remoteAccessTimeout>
    <enableLocalAccess>true</enableLocalAccess>
    <localAccessTimeout>6</localAccessTimeout>
  </serviceLogin>
</phySettings>
</ns2:physicalLibrary>

```

- sessionTimeout – Set the session timeout a user will be automatically logged out (session will be terminated). The valid values are, 1 through 1440 minutes. The timeout is based on the length of inactivity of a user login session.
- snmp – Configure the library SNMP settings.
- Smis – Configure the library SMIS settings.

One or more settings can be applied on a single request by including the feature for an update. For example, if you want to update the extended I/E and sessionTimeout settings, you can use the following XML:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:physicalLibrary xmlns:ns2="http://automatedMediaLibrary/">
  <phySettings>
    <extendedIe>
      <enabled>true</enabled>
    </extendedIe>
    <sessionTimeout>
      <minutes>15</minutes>
    </sessionTimeout>
  </phySettings>
</ns2:physicalLibrary>

```

A feature settings update may fail for some reason. If the feature was included with other feature updates in a single request, it will return a HTTP failure status, but that does not necessarily mean that all the features were not updated successfully. It is recommended that you do a GET request after a failure has occurred to retrieve the current setting of the individual features.

| URI              | <i>aml/physicalLibrary</i>                       |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 143: physicalLibrary                  |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 143: physicalLibrary                  |

**Table 212: GET aml/physicalLibrary/elements****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the elementList resource instances.

| URI              | <i>aml/physicalLibrary/elements</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Parameters       | <p>Query parameters names are partition, state, type, start, length, frame, rack with the following valid values:</p> <ul style="list-style-type: none"><li>• partition=name of partition</li><li>• state="full" or "empty". The slot contains a media (full) or the slot is empty (empty)</li><li>• type="storage", "ie", "drive" "xie" or "cleaning"</li><li>• start=0-n</li><li>• length=1-n, anything else means all records.</li><li>• frame=0 – maximum number of frames (specify which frame you want)</li><li>• rack = 1 or 2</li></ul> <p>coordinate = Frame,Rack,Section,Column,Row,Type. A comma separated coordinate. This query parameter should not be used with any other query parameter. See</p> <ul style="list-style-type: none"><li>• Figure 23: coordinate</li></ul> <p>To retrieve all elements in one call use "aml/physicalLibrary/elements?start=0&amp;length=-1" which is the default if no range is specified.</p> <p>To retrieve all elements belonging to partition named TEST use "aml/physicalLibrary/elements?partition=TEST".</p> <p>To retrieve all ie elements that contain media use "aml/physicalLibrary/elements?type=ie&amp;state=full".</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Response Codes   | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response Data    | See Figure 63: elementList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Table 213: GET aml/physicalLibrary/mode****Product Support:** Scalar i6k**Description:** Retrieve the current physical library mode, 1 (online) or 2 (offline).

| URI              | aml/physicalLibrary/mode                    |
|------------------|---------------------------------------------|
| Method           | GET                                         |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200                                         |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | 1 or 2                                      |

**Table 214: PUT aml/physicalLibrary/mode****Product Support:** Scalar i6k**Description:** Change the physical library mode to 1 (online) or 2 (offline) which will affect all logical library access.

| URI              | aml/physicalLibrary/mode                    |
|------------------|---------------------------------------------|
| Method           | PUT                                         |
| User Role Access | Admin, Service                              |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | Content-Type:text/plain or application/json |
| Request Data     | 1 or 2                                      |
| Response Codes   | 200, 403                                    |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | 1 or 2                                      |

**Table 215: GET aml/physicalLibrary/operations****Product Support:** Scalar i6k**Description:** Retrieve the list of tasks resources that were started/requested.

| URI              | aml/physicalLibrary/operations                                                                                                                                                                                                                                                   |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                                                                                                                                                                                              |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                             |
| Version          | 700(i6k)                                                                                                                                                                                                                                                                         |
| Parameters       | <p>Query parameters names are type with the following valid values:</p> <ul style="list-style-type: none"> <li>type = 0 (All), 1 (inventory), 2 (library shutdown), 3 (library reboot), 4 (identify drive), 5 (drive clean), 6 (power cycle FC IO blade), 7 (reset FC</li> </ul> |

| URI             | <b>aml/physicalLibrary/operations</b>                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                 | IO blade), 8 (identify FC IO blade), 9 (Identify Ethernet Expansion Blade), 10 (Auto Import Media), 11 (Generate Command History Logs) |
| Request Header  | N/A                                                                                                                                    |
| Request Data    | N/A                                                                                                                                    |
| Response Codes  | 200                                                                                                                                    |
| Response Header | Content-Type:application/xml or application/json                                                                                       |
| Response Data   | See Figure 180: taskList                                                                                                               |

**Table 216: GET aml/physicalLibrary/operations/inventory**

**Product Support:** Scalar i6k

**Description:** Retrieve a list of inventory tasks that we requested on the physical library.

| URI              | <b>aml/physicalLibrary/operations/inventory</b>  |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 180: taskList                         |

**Table 217: POST aml/physicalLibrary/operations/inventory**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Start an inventory of the physical library using the inventoryTask object. This object will specify the starting element address and the number of elements (inventory range) and whether to take the physical library offline. If the physical library is not taken offline the inventory will fail. On the i6k to do a full inventory of the physical library, set the startElement and elementCount to 0 in the inventoryTask object. See example below

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:inventoryTask xmlns:ns2="http://automatedMediaLibrary/">
  <startElement>0</startElement>
  <elementCount>0</elementCount>
</ns2:inventoryTask>
```

**Note:** The Scalar i6k supports an inventory as an asynchronous request. The new task resource URI that was created will be included in the 'Location' header of the response, see Table 218: GET aml/physicalLibrary/operations/inventory/{id}. To determine if an

inventory task has completed, check the state element of the task object; when complete the state should be 5 (Completed), see Figure 181: task.

In the Scalar i3/i6, the request is synchronous which blocks until the inventory completes.

| URI              | <i>aml/physicalLibrary/operations/inventory</i>  |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 97: inventoryTask (i6k only)          |
| Response Codes   | 202(i6k) 200(i3/i6), 403                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 218: GET *aml/physicalLibrary/operations/inventory/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the task object with the id given by URI path template “id”.

To retrieve a task object with id of 86, use the following URI:  
'aml/physicalLibrary/operations/inventory/86'.

| URI              | <i>aml/physicalLibrary/operations/inventory/{id}</i> |
|------------------|------------------------------------------------------|
| Method           | <b>GET</b>                                           |
| User Role Access | Admin, Service, User                                 |
| Version          | 700(i6k)                                             |
| Parameters       | N/A                                                  |
| Request Header   | N/A                                                  |
| Request Data     | N/A                                                  |
| Response Codes   | 200, 404                                             |
| Response Header  | Content-Type:application/xml or application/json     |
| Response Data    | See Figure 181: task                                 |

**Table 219: DELETE *aml/physicalLibrary/operations/inventory/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the task object with the id given by URI path template “id”.

**Note:** This does not stop the specific inventory request. It will cleanup operation tasks from the library's database.

| URI              | <i>aml/physicalLibrary/operations/inventory/{id}</i> |
|------------------|------------------------------------------------------|
| Method           | <b>DELETE</b>                                        |
| User Role Access | Admin, Service                                       |
| Version          | 700(i6k)                                             |

| URI             | <i>aml/physicalLibrary/operations/inventory/{id}</i> |
|-----------------|------------------------------------------------------|
| Parameters      | N/A                                                  |
| Request Header  | N/A                                                  |
| Request Data    | N/A                                                  |
| Response Codes  | 200, 403, 404                                        |
| Response Header | Content-Type:application/xml or application/json     |
| Response Data   | See Figure 192: WSResultCode                         |

**Table 220: GET *aml/physicalLibrary/operations/shutdown***

**Product Support:** Scalar i6k

**Description:** Retrieve a list of shutdown tasks that were requested on the physical library.

| URI              | <i>aml/physicalLibrary/operations/shutdown</i>   |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 180: taskList                         |

**Table 221: POST *aml/physicalLibrary/operations/shutdown***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Shut down the library using the shutdownTask object. This object must specify a reboot element with a value of false, otherwise the library will reboot. To complete the shutdown process you must physically push the library power button.

| URI              | <i>aml/physicalLibrary/operations/shutdown</i>   |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 175: shutdownTask                     |
| Response Codes   | 202, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 222: GET *aml/physicalLibrary/operations/shutdown/{id}***

**Product Support:** Scalar i6k

**Description:** Retrieve the task object of type 2 (Shutdown) with the id given by URI path template “id”.

| URI              | <i>aml/physicalLibrary/operations/shutdown/{id}</i> |
|------------------|-----------------------------------------------------|
| Method           | <b>GET</b>                                          |
| User Role Access | Admin, Service, User                                |
| Version          | 700(i6k)                                            |
| Parameters       | N/A                                                 |
| Request Header   | N/A                                                 |
| Request Data     | N/A                                                 |
| Response Codes   | 200, 404                                            |
| Response Header  | Content-Type:application/xml or application/json    |
| Response Data    | See Figure 181: task                                |

**Table 223: DELETE *aml/physicalLibrary/operations/shutdown/{id}***

**Product Support:** Scalar i6k

**Description:** Delete the task object of type 2 (Shutdown) with the id given by URI path template “id”.

**Note:** This request does not stop the shutdown operation in progress.

| URI              | <i>aml/physicalLibrary/operations/shutdown/{id}</i> |
|------------------|-----------------------------------------------------|
| Method           | <b>DELETE</b>                                       |
| User Role Access | Admin, Service                                      |
| Version          | 700(i6k)                                            |
| Parameters       | N/A                                                 |
| Request Header   | N/A                                                 |
| Request Data     | N/A                                                 |
| Response Codes   | 200, 403, 404                                       |
| Response Header  | Content-Type:application/xml or application/json    |
| Response Data    | See Figure 181: task                                |

**Table 224: GET *aml/physicalLibrary/operations/reboot***

**Product Support:** Scalar i6k

**Description:** Retrieve a list of reboot tasks that were previously requested.

| URI              | <i>aml/physicalLibrary/operations/reboot</i>     |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 180: taskList                         |

**Table 225: POST aml/physicalLibrary/operations/reboot**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Reboot the library using the shutdownTask object. This object must specify a reboot element with a value of true, otherwise the library will shut down.

| <b>URI</b>       | <b><i>aml/physicalLibrary/operations/reboot</i></b> |
|------------------|-----------------------------------------------------|
| Method           | <b>POST</b>                                         |
| User Role Access | Admin, Service                                      |
| Version          | 700(i6k), 110(i3/i6)                                |
| Parameters       | N/A                                                 |
| Request Header   | Content-Type:application/xml or application/json    |
| Request Data     | See Figure 175: shutdownTask                        |
| Response Codes   | 202, 403                                            |
| Response Header  | Content-Type:application/xml or application/json    |
| Response Data    | See Figure 192: WSResultCode                        |

**Table 226: GET aml/physicalLibrary/operations/reboot/{id}**

**Product Support:** Scalar i6k

**Description:** Retrieve the task object of type 3 (Reboot) with the id given by URI path template “id”.

| <b>URI</b>       | <b><i>aml/physicalLibrary/operations/reboot/{id}</i></b> |
|------------------|----------------------------------------------------------|
| Method           | <b>GET</b>                                               |
| User Role Access | Admin, Service, User                                     |
| Version          | 700(i6k)                                                 |
| Parameters       | N/A                                                      |
| Request Header   | N/A                                                      |
| Request Data     | N/A                                                      |
| Response Codes   | 200, 404                                                 |
| Response Header  | Content-Type:application/xml or application/json         |
| Response Data    | See Figure 181: task                                     |

**Table 227: DELETE aml/physicalLibrary/operations/reboot/{id}****Product Support:** Scalar i6k**Description:** Delete the task object of type 3 (Reboot) with the id given by URI path template “id”.**Note:** This request does not stop the reboot operation in progress.

| URI              | <i>aml/physicalLibrary/operations/reboot/{id}</i> |
|------------------|---------------------------------------------------|
| Method           | <b>DELETE</b>                                     |
| User Role Access | Admin, Service                                    |
| Version          | 700(i6k)                                          |
| Parameters       | N/A                                               |
| Request Header   | N/A                                               |
| Request Data     | N/A                                               |
| Response Codes   | 200, 403, 404                                     |
| Response Header  | Content-Type:application/xml or application/json  |
| Response Data    | See Figure 192: WSResultCode                      |

**Table 228: GET aml/physicalLibrary/quattro/module****Product Support:** Scalar i3, Scalar i6**Description:** Retrieve a list of module resources.

| URI              | <i>aml/physicalLibrary/quattro/modules</i>       |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 125: moduleList                       |

**Table 229: GET aml/physicalLibrary/subset/configuration****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve a subset of the physicalLibrary resource, which groups all configuration options of the library.

| URI              | <i>aml/physicalLibrary/subset/configuration</i> |
|------------------|-------------------------------------------------|
| Method           | <b>GET</b>                                      |
| User Role Access | Admin, Service, User                            |
| Version          | 720(i6k), 110(i3/i6)                            |
| Parameters       | N/A                                             |

| <b>URI</b>      | <b><i>aml/physicalLibrary/subset/configuration</i></b> |
|-----------------|--------------------------------------------------------|
| Request Header  | N/A                                                    |
| Request Data    | N/A                                                    |
| Response Codes  | 200                                                    |
| Response Header | Content-Type:application/xml or application/json       |
| Response Data   | See Figure 144: physicalLibraryConfiguration           |

**Table 230: GET *aml/physicalLibrary/subset/remoteAccess***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a subset of the physicalLibrary resource, which groups all remote network service access options of the library.

| <b>URI</b>       | <b><i>aml/physicalLibrary/subset/remoteAccess</i></b> |
|------------------|-------------------------------------------------------|
| Method           | <b>GET</b>                                            |
| User Role Access | Admin, Service, User                                  |
| Version          | 720(i6k), 110(i3/i6)                                  |
| Parameters       | N/A                                                   |
| Request Header   | N/A                                                   |
| Request Data     | N/A                                                   |
| Response Codes   | 200                                                   |
| Response Header  | Content-Type:application/xml or application/json      |
| Response Data    | See Figure 145: physicalLibraryRemoteAccess           |

**Table 231: GET *aml/physicalLibrary/subset/resources***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a subset of the physicalLibrary resource, which groups all library resources.

| <b>URI</b>       | <b><i>aml/physicalLibrary/subset/resources</i></b> |
|------------------|----------------------------------------------------|
| Method           | <b>GET</b>                                         |
| User Role Access | Admin, Service, User                               |
| Version          | 720(i6k), 110(i3/i6)                               |
| Parameters       | N/A                                                |
| Request Header   | N/A                                                |
| Request Data     | N/A                                                |
| Response Codes   | 200                                                |
| Response Header  | Content-Type:application/xml or application/json   |
| Response Data    | See Figure 146: physicalLibraryResources           |

**Table 232: GET aml/physicalLibrary/subset/settings****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve a subset of the physicalLibrary resource, which groups similar physical library settings.

| <i>URI</i>       | <i>aml/physicalLibrary/subset/settings</i>       |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 720(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 147: physicalLibrarySettings          |

**Table 233: GET aml/physicalLibrary/segments****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve a list of segment resources.

| <i>URI</i>       | <i>aml/physicalLibrary/segments</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Parameters       | <p>Query parameters names are partition, status, type, start, length, frame, rack with the following valid values:</p> <ul style="list-style-type: none"> <li>• partition=name of partition</li> <li>• status="available" or "used" (owned by a partition or not)</li> <li>• type="storage", "ie", "drive", "xie" or "cleaning"</li> <li>• start=0-n</li> <li>• length=1-n, anything else means all records.</li> <li>• frame=0 – maximum number of frames</li> <li>• rack = 1 or 2</li> </ul> <p>To retrieve all segments in one call use "aml/physicalLibrary/segments?start=0&amp;length=-1" which is the default if no range is specified. To retrieve all segments belonging to partition named LL1 use "aml/physicalLibrary/segments?partition=LL1". To retrieve all ie segments use "aml/physicalLibrary/segments?type=ie".</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| URI             | <i>aml/physicalLibrary/segments</i>              |
|-----------------|--------------------------------------------------|
| Request Data    | N/A                                              |
| Response Codes  | 200, 404                                         |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 169: segmentList                      |

**Table 234: GET *aml/physicalLibrary/segments/amp***

**Product Support:** Scalar i6k

**Description:** Retrieve the storage segment resources belonging to Automated Media Pool (AMP) partitions.

| URI              | <i>aml/physicalLibrary/segments/amp</i>          |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 169: segmentList                      |

**Table 235: PUT *aml/physicalLibrary/segments/amp***

**Product Support:** Scalar i6k

**Description:** Change the owner of the segments in the segmentList. This interface is used to reassign *storage* segments from a Standard partition to an Automated Media Pool (AMP) partition and vice versa.

When reassigning storage segments from an AMP to a Standard partition the Standard partition should have enough available AMP extensions configured to satisfy the request (reassign segments <= AMP extensions).

The segment list in the request must belong to a single partition and must be reassigned to a single partition.

In the example below there is a segment that belongs to an AMP partition called AMP and we want to reassign it to a partition called LL1. The segmentList will contain a single segment that currently belongs to the AMP partition with its owner element changed to LL1, the partition to which the segment will be reassigned.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
```

```

    <section>4</section>
    <column>3</column>
    <row>1</row>
    <type>2</type>
  </coordinate>
  <size>6</size>
  <owner>LL1</owner>
  <configuredType>0</configuredType>
</segment>
</ns2:segmentList>

```

To retrieve a list of AMP storage segments, use the GET request above. To retrieve a list of Standard storage segments, use Table 206: GET aml/partition/{name}/segments with the appropriate query parameters.

| <b>URI</b>       | <b><i>aml/physicalLibrary/segments/amp</i></b>   |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 169: segmentList                      |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 236: GET aml/physicalLibrary/segments/cleaning**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of cleaning segment resources. These segments will contain cleaning media used for library initiated cleaning.

| <b>URI</b>       | <b><i>aml/physicalLibrary/segments/cleaning</i></b> |
|------------------|-----------------------------------------------------|
| Method           | <b>GET</b>                                          |
| User Role Access | Admin, Service, User                                |
| Version          | 700(i6k), 110(i3/i6)                                |
| Parameters       | N/A                                                 |
| Request Header   | N/A                                                 |
| Request Data     | N/A                                                 |
| Response Codes   | 200, 404                                            |
| Response Header  | Content-Type:application/xml or application/json    |
| Response Data    | See Figure 169: segmentList                         |

**Table 237: POST aml/physicalLibrary/segments/cleaning****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Create a new cleaning segment resource. If no cleaning media are already present in the segment, they can be imported into the segment, see Table 133: POST aml/media/operations/moveMedium.

| URI              | <i>aml/physicalLibrary/segments/cleaning</i>     |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 170: segment                          |
| Response Codes   | 201, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 238: DELETE aml/physicalLibrary/segments/cleaning****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Remove a cleaning segment resource. This will make the segment available, so it can be used by a partition.

| URI              | <i>aml/physicalLibrary/segments/cleaning</i>                                           |
|------------------|----------------------------------------------------------------------------------------|
| Method           | <b>DELETE</b>                                                                          |
| User Role Access | Admin, Service                                                                         |
| Version          | 700(i6k), 110(i3/i6)                                                                   |
| Parameters       | N/A                                                                                    |
| Request Header   | Content-Type:application/xml or application/json                                       |
| Request Data     | See Figure 170: segment. This will be the current cleaning segment you want to delete. |
| Response Codes   | 201, 403, 404                                                                          |
| Response Header  | Content-Type:application/xml or application/json                                       |
| Response Data    | See Figure 192: WSResultCode                                                           |

**Table 239: POST aml/physicalLibrary/segments/operations/inventory****Product Support:** Scalar i3, Scalar i6**Description:** Request the library to do an inventory on the list of segments/magazines/drives provided by the segmentList. The only element of the segment object that needs to be provided is the coordinate.

| <b>URI</b>       | <b><i>aml/physicalLibrary/segments/operations/inventory</i></b> |
|------------------|-----------------------------------------------------------------|
| Method           | <b>POST</b>                                                     |
| User Role Access | Admin, Service                                                  |
| Version          | 110(i3/i6)                                                      |
| Parameters       | N/A                                                             |
| Request Header   | Content-Type:application/xml or application/json                |
| Request Data     | See Figure 169: segmentList                                     |
| Response Codes   | 200, 403, 404                                                   |
| Response Header  | Content-Type:application/xml or application/json                |
| Response Data    | See Figure 192: WSResultCode                                    |

**Table 240: GET aml/physicalLibrary/status**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the library status information resource. This resource reports general state/status information about the library.

**Note:** This URI does not affect the user's session timeout; all other URIs are considered a user activity and reset the session timeout.

| <b>URI</b>       | <b><i>aml/physicalLibrary/status</i></b>         |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 108: libraryStatus                    |

**Table 241: GET aml/service/logs**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of service logs.

| <b>URI</b>       | <b><i>aml/service/logs</i></b>                   |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 720(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 173: serviceLogList                   |

**Table 242: GET aml/service/log/{name}****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the service log whose name is given by the URI path template “name”. The available log names are provided by the interface Table 241: GET aml/service/logs.**Note:** This is a licensed feature (Service) for i3/i6.

| URI              | aml/service/log/{name}                                                                                                                                                                                                                                                                                                                                                             |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                                                                                                                                                                                                                                                                                                |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                               |
| Version          | 720(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                               |
| Parameters       | <p>Query parameter names are “save” with the following valid values:</p> <ul style="list-style-type: none"> <li>save=the default name you want the browser to save the contents of the file too. If no name is given a default name will be supplied by the Web Server.</li> </ul> <p>The purpose of the save parameter is to tell the Web Browser that this is an attachment.</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                |
| Response Codes   | 200                                                                                                                                                                                                                                                                                                                                                                                |
| Response Header  | <p>Content-Type: application/octet-stream, application/xml or application/json<br/> Content-Disposition: attachment;<br/> filename=“the name of the file” (This will only happen if the save query parameter is requested)<br/> On success<br/> Cookie: name=FileDownloadingProgressCookie, value=Done</p>                                                                         |
| Response Data    | The log file content.                                                                                                                                                                                                                                                                                                                                                              |

**Table 243: POST aml/service/log/{name}/email****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Email the service log whose name is given by the URI path template “name”.**Note:** This is a licensed feature (Service) for i3/i6.

| URI              | aml/service/log/{name}/email |
|------------------|------------------------------|
| Method           | POST                         |
| User Role Access | Admin, Service, User         |
| Version          | 720(i6k), 110(i3/i6)         |
| Parameters       | N/A                          |

| <i>URI</i>      | <i>aml/service/log/{name}/email</i>               |
|-----------------|---------------------------------------------------|
| Request Header  | Content-Type: application/xml or application/json |
| Request Data    | See Figure 65: email                              |
| Response Codes  | 200, 403, 412                                     |
| Response Header | Content-Type: application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                      |

**Table 244: POST aml/service/resetFactoryDefault**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Reset the library's configuration to factory defaults.

| <i>URI</i>       | <i>aml/service/resetFactoryDefault</i>           |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 720(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 202, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 245: GET aml/service/vt/test**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of supported tests.

| <i>URI</i>       | <i>aml/service/vt/test</i>                       |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 735(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 102: libraryDiagnosticTestList        |

**Table 246: POST aml/service/vt/test/abort**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Stop the currently running diagnostic test and end the session.

| <b>URI</b>       | <b><i>aml/service/vt/test/abort</i></b>          |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 735(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 247: GET aml/service/vt/test/operations**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of requested VT tasks. The supported VT tasks are as follows:

- 12 (Start Test Diagnostic Session (i6k only))
- 13 (Finish Test Diagnostic Session (i6k only))
- 14 (Robot Accessor Test (i6k only))
- 15 (Robot Picker Test (i6k only))
- 16 (Robot Assembly Test (i6k and i3/i6))
- 17 (IE Station Assembly Test (i6k only))
- 18 (Tower Assembly Test (i6k only))
- 19 (Tower Scanner Test (i6k only))
- 20 (Robot Scanner Test (i6k only))
- 21 (Library Get/Put Test (i6k only))
- 22 (Drive Assembly Test (i6k and i3/i6))
- 23 (Magazine Test (i3/i6 only))
- 24 (Installation Verification Test (IVT) (i6k and i3/i6))
- 27 (Library Alignment Test (i6k only))
- 28 (Barcode Label Test (i6k only))

| <b>URI</b>       | <b><i>aml/service/vt/test/operations</i></b> |
|------------------|----------------------------------------------|
| Method           | <b>GET</b>                                   |
| User Role Access | Admin, Service, User                         |
| Version          | 735(i6k), 110(i3/i6)                         |

| URI             | aml/service/vt/test/operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameters      | <p>Query parameters names are type with the following valid values:</p> <ul style="list-style-type: none"> <li>type=# or lastRun</li> </ul> <p>If type = # then a taskList will be returned with the tasks of the specified task type number. To retrieve a list of Robot tasks that were run use the following<br/>aml/service/vt/test/operations?type=16<br/>If no Robot tests were run, you will get an empty list.<br/>If type=lastRun, you will get a list of the last run task types, no more than one for each task type and if a specific task type was never run, it will not be included.</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Codes  | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Header | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Response Data   | See Figure 180: taskList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Table 248: POST aml/service/vt/test/operations**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Start a VT diagnostic test task.

The first task that must be called on the i6k is task type 12 (Start Test Diagnostic Session), except in the case where 24 (IVT) is requested. This will prepare the library for VT tests to run on the i6k. If you do not have a task type 12 running then no other diagnostic test task will be allowed to run, except for task type 24, again, this is an i6k requirement only. To finish a VT diagnostic test session, you need to call test type 13, except for task type 24, this is also only an i6k requirement. Some VT task types take a libraryTestParameters object which has multiple options, here is the list of valid options for each task type.

12 (Start Test Diagnostic Session (i6k only)) No libraryTestParameters required

13 (Finish Test Diagnostic Session (i6k only)) No libraryTestParameters required

14 (Robot Accessor Test (i6k only))

- libraryTestParameters.robot

**Note:** You must specify 0(Left) or 1(Right) robot but not 2(Both).

15 (Robot Picker Test (i6k only))

- libraryTestParameters .robot

- `libraryTestParameters.mediaLocations` (Scratch tape, must be an IE Station slot containing media, this parameter is optional.)
- `libraryTestParameters.slotLocation` (This can be a Storage, Drive or IE slot.)

#### 16 (Robot Assembly Test (i6k and i3/i6))

- `libraryTestParameters.robot`
- `libraryTestParameters.startModule`
- `libraryTestParameters.endModule`
- `libraryTestParameters.startRack`
- `libraryTestParameters.endRack`
- `libraryTestParameters.mediaLocations` (Scratch tape, must be an IE Station slot containing media)

#### 17 (IE Station Assembly Test (i6k only))

- `libraryTestParameters.robot`
- `libraryTestParameters.startModule` (Starting IE Station Number)
- `libraryTestParameters.endModule` (Ending IE Station Number)
- `libraryTestParameters.mediaLocations` (Scratch Tape, must be an IE Station slot containing media.)

#### 18 (Tower Assembly Test (i6k only))

- `libraryTestParameters.robot`
- `libraryTestParameters.startModule`
- `libraryTestParameters.endModule`

**Note:** The start and end modules/frames must contain towers. Use the interface Table 67: GET `aml/devices/towers` to retrieve a list of configured towers.

#### 19 (Tower Scanner Test (i6k only))

- `libraryTestParameters.robot` (DEPRECATED)
- `libraryTestParameters.startModule`
- `libraryTestParameters.endModule`

**Note:** The start and end modules/frames must contain towers with scanners installed.

**Note:** The libraryTestParameters.robot is no longer a required parameter and should be ignored.

20 (Robot Scanner Test (i6k only))

- libraryTestParameters.robot
- libraryTestParameters.startModule
- libraryTestParameters.endModule
- libraryTestParameters.startRack
- libraryTestParameters.endRack

21 (Library Get/Put Test (i6k only))

- libraryTestParameters.robot
- libraryTestParameters.startModule
- libraryTestParameters.endModule
- libraryTestParameters.startRack
- libraryTestParameters.endRack
- libraryTestParameters.mediaLocations (Scratch tapes, must be an IE Station slot containing media.)

22 (Drive Assembly Test (i6k and i3/i6))

- libraryTestParameters.robot (i6k Only)
- libraryTestParameters.mediaLocations (Scratch tape, must be an IE Station slot containing media. (i6k Only))
- libraryTestParameters.startLocation
- libraryTestParameters.endLocation

23 (Magazine Test (i3/i6 only))

- libraryTestParameters.startLocation
- libraryTestParameters.endLocation

## 24 (IVT Test (i6k and i3/i6))

- `libraryTestParameters.mediaLocations` (Scratch tape(s), must be one or more IE Station slots containing media. It is recommended to use 2 scratch tapes in a library with dual robots (i6k only))
- `libraryTestParameters.partialIvt`, this is optional and should include the following elements: `libraryTestParameters.startModule`, `libraryTestParameters.endModule`, `libraryTestParameters.startRack` and `libraryTestParameters.endRack`. If set to true, it will perform a partial IVT on the modules and racks specified (i6k only)
- `libraryTestParameters.startLocation` (i3/i6 only)
- `libraryTestParameters.endLocation` i3/i6 only)

## 27 (Library Alignment Test (i6k only))

- `libraryTestParameters.robot`
- `libraryTestParameters.startModule`
- `libraryTestParameters.endModule`
- `libraryTestParameters.startRack`
- `libraryTestParameters.endRack`

| <b>URI</b>       | <b><i>aml/service/vt/test/operations</i></b>                                                                          |
|------------------|-----------------------------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                                           |
| User Role Access | Admin, Service                                                                                                        |
| Version          | 735(i6k), 110(i3/i6)                                                                                                  |
| Parameters       | N/A                                                                                                                   |
| Request Header   | Content-Type:application/xml or application/json                                                                      |
| Request Data     | See Figure 107: <code>libraryDiagnosticTestTask</code>                                                                |
| Response Codes   | 202, 403                                                                                                              |
| Response Header  | Content-Type:application/xml or application/json<br>Location: <code>aml/service/vt/operation/taskId</code> (i6k only) |
| Response Data    | See Figure 192: <code>WSResultCode</code>                                                                             |

**Table 249: GET aml/service/vt/test/operation/{taskId}****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the task whose id is given by the URI template 'taskId'

| URI              | aml/service/vt/test/operation/{taskId}           |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 735(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 181: task                             |

**Table 250: GET aml/service/vt/test/sessions****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve a list of library diagnostic test session resources

| URI              | aml/service/vt/test/sessions                     |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 735(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 105: libraryDiagnosticTestSessionList |

**Table 251: GET aml/service/vt/test/session****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the last or currently running library diagnostic test session. This can be used to get results for the current or last run VT session.

| URI              | aml/service/vt/test/session |
|------------------|-----------------------------|
| Method           | GET                         |
| User Role Access | Admin, Service, User        |
| Version          | 735(i6k), 110(i3/i6)        |
| Parameters       | N/A                         |
| Request Header   | N/A                         |
| Request Data     | N/A                         |

| <b>URI</b>      | <b><i>aml/service/vt/test/session</i></b>        |
|-----------------|--------------------------------------------------|
| Response Codes  | 200, 404                                         |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 106: libraryDiagnosticTestSession     |

**Table 252: GET *aml/service/vt/test/session/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the session resource whose id is given by the URI path template “id”.

| <b>URI</b>       | <b><i>aml/service/vt/test/session/{id}</i></b>   |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 735(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 106: libraryDiagnosticTestSession     |

**Table 253: DELETE *aml/service/vt/test/session/{id}***

**Product Support:** Scalar i6k

**Description:** Delete the session resource whose id is given by the URI path template “id”. This will delete the session record from the library’s database.

| <b>URI</b>       | <b><i>aml/service/vt/test/session/{id}</i></b>   |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 735(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404, 403                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 106: libraryDiagnosticTestSession     |

**Table 254: GET aml/system/configuration/record****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve a library configuration record.

| <b>URI</b>       | <b>aml/system/configuration/record</b>                                                                                                                                                                                                                                                                                                                                            |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                        |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                              |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                              |
| Parameters       | Optional query parameter is save, with the following valid values <ul style="list-style-type: none"> <li>save="name" where name is a file name to use to save the configuration record/report information to. The file format will be text.</li> </ul> The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                               |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                               |
| Response Codes   | 200                                                                                                                                                                                                                                                                                                                                                                               |
| Response Header  | Content-Type: text/plain or application/octet-stream<br>On success and save= parameter is used<br>Cookie: name=FileDownloadingProgressCookie, value=Done                                                                                                                                                                                                                          |
| Response Data    | Byte Stream or text                                                                                                                                                                                                                                                                                                                                                               |

**Table 255: POST aml/system/configuration/record/email****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Email a library configuration record to recipients specified in the provided email object.

| <b>URI</b>       | <b>aml/system/configuration/record/email</b>     |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 65: email                             |
| Response Codes   | 200, 403, 412                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 256: GET aml/system/dateTime****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the date and time resource. This reports the time on the library with time zone included.

| <i>URI</i>       | <i>aml/system/dateTime</i>                       |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 26: dateTime                          |

**Table 257: PUT aml/system/dateTime****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Update the current date time resource on the library. The example XML object below shows the request body data used to update the time. To discover the available time zones, see Table 260: GET aml/system/dateTime/timeZoneIDs.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:dateTime xmlns:ns2="http://automatedMediaLibrary/">
  <date>2013-05-22</date>
  <time>13:56:15</time>
  <timezone>American/Denver</timezone>
</ns2:dateTime>

```

| <i>URI</i>       | <i>aml/system/dateTime</i>                       |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 26: dateTime                          |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 26: dateTime                          |

**Table 258: GET aml/system/dateTime/ntp****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the Network Time Protocol (NTP) resource. This is used to synchronize the library's clock with a number of NTP servers on the internet.

| URI              | aml/system/dateTime/ntp                          |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 137: NTP                              |

**Table 259: PUT aml/system/dateTime/ntp****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Update the NTP resource. To disable NTP send an empty NTP object, with no server defined.

| URI              | aml/system/dateTime/ntp                          |
|------------------|--------------------------------------------------|
| Method           | PUT                                              |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 137: NTP                              |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 137: NTP                              |

**Table 260: GET aml/system/dateTime/timeZoneIDs****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the available list of time zone ID's. When setting the time zone use the string value reported between the values reported in parentheses. For example, from the response data below: "<ID>(GMT+13:00) MIT (WSDT)</ID>" use "MIT".

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:timeZoneIds xmlns:ns2="http://automatedMediaLibrary/">
  <ID>(GMT-12:00) Etc/GMT+12 (GMT-12:00)</ID>
  <ID>(GMT-11:00) Etc/GMT+11 (GMT-11:00)</ID>
  <ID>(GMT+13:00) MIT (WSDT)</ID>
  <ID>(GMT+13:00) Pacific/Apia (WSDT)</ID>
  <ID>(GMT-11:00) Pacific/Midway (SDT)</ID>
  <ID>(GMT-11:00) Pacific/Niue (NUST)</ID>
  <ID>(GMT-11:00) Pacific/Pago_Pago (SDT)</ID>
  <ID>(GMT-11:00) Pacific/Samoa (SDT)</ID>
  <ID>(GMT-11:00) US/Samoa (SDT)</ID>
  <ID>(GMT-10:00) America/Adak (HADT)</ID>
  .....
</ns2:timeZoneIds>

```

| URI              | <i>aml/system/dateTime/timeZoneIds</i>           |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 182: timeZoneIds                      |

**Table 261: GET *aml/system/ekm/communicationCertificates***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the list of communicationCertificate resources installed on the library.

| URI              | <i>aml/system/ekm/communicationCertificates</i>  |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 18: communicationCertificateList      |

**Table 262: POST aml/system/ekm/communicationCertificates**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Install the communication certificates to be used between the library and the EKM servers. The following form data key value pairs are required:

For all server types, the key “type” is required:

type=qekm, tklm, skm, rkm or kmip

**Note:** Q-EKM and TKLM/SKLM EKM solution are only supported by the Scalar i6k.

QEKM or TKLM

root=The root certificate file

SKM

quantum=The Quantum certificate bundle file

Or the following

root= The root certificate file

admin=The admin certificate file

adminpassword=The admin password

client=The client certificate file

clientpassword=The client password

KMIP

root= The root certificate file

client=The client certificate file

clientpassword=The client password

**Note:** This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

| URI              | aml/system/ekm/communicationCertificates         |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type: multipart/form-data                |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 263: GET aml/system/ekm/logs****Product Support:** Scalar i6k**Description:** Retrieve the SKM server logs.**Note:** This interface has been deprecated. The logs should be retrieved from the SKM server log capture functionality.

| URI              | <i>aml/system/ekm/logs</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Parameters       | <p>Query parameter names are type and save with the following valid values:</p> <ul style="list-style-type: none"> <li>• save=the default name you want the browser to save the contents of the file to. If no name is given a default name will be supplied by the Web Server. The purpose of the save parameter is to tell the Web Browser that this is an attachment. If the client is not a Web Browser then the 'Accept: application/octet-stream' can be used to retrieve the file data.</li> <li>• type=0(Primary), 1(secondary) and 2(Import Warning)</li> </ul> <p>If no type is given, then 0 is the default.</p> |
| Request Header   | Accept: application/octet-stream (download the file content)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Codes   | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response Header  | <p>Content-Type: application/octet-stream, application/xml or application/json</p> <p>Content-Disposition: attachment; filename="the name of the file" (This will only happen if the save query parameter is requested)</p> <p>Cookie: name=FileDownloadingProgressCookie, value=Done</p>                                                                                                                                                                                                                                                                                                                                   |
| Response Data    | The file content, it is in tgz format.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Table 264: GET aml/system/ekm/reports/audit/mediaStatus****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the list of EKM media statistics resources.**Note:** This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/system/ekm/reports/audit/mediaStatus</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Parameters       | <p>Optional query parameter is start, length, period, date, partition and save, with the following valid values:</p> <ul style="list-style-type: none"> <li>• save="name" where name is a file name to use to save the media status information to. The file format will be CSV.</li> <li>• start=0-n</li> <li>• length=1-n, anything else means all records.</li> <li>• period=the last number of days to include in the report. If you want to report for the last month, you would specify 30.</li> <li>• date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored.</li> <li>• partition=The partition name.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Codes   | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Header  | <p>Content-Type: application/xml or application/json</p> <p>On success</p> <p>Cookie: name=FileDownloadingProgressCookie, value=Done</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response Data    | See Figure 54: ekmMediaStatusList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Table 265: POST aml/system/ekm/reports/audit/mediaStatus/email**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Email the list of media encryption status records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 264: GET aml/system/ekm/reports/audit/mediaStatus.

**Note:** This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

| URI              | aml/system/ekm/reports/audit/mediaStatus/email   |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 65: email                             |
| Response Codes   | 200, 403, 412                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 266: GET aml/system/ekm/reports/audit/partitionActivity**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the list of EKM partition activity resources.

The EKM (Encryption Key Management) Report provides partition encryption method summaries, providing historic information as to when a library partition was enabled or disabled for library managed encryption.

**Note:** This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

| URI              | aml/system/ekm/reports/audit/partitionActivity                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | GET                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Parameters       | Optional query parameter is save, with the following valid values: <ul style="list-style-type: none"><li>• save="name" where name is a file name to use to save the partition activity information to. The file format will be CSV.</li><li>• start=0-n</li><li>• length=1-n, anything else means all records.</li><li>• period=the last number of days to include in the report. If you want to report for the last month, you would specify 30.</li></ul> |

| URI             | <i>aml/system/ekm/reports/audit/partitionActivity</i>                                                                                                                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <ul style="list-style-type: none"> <li>partition=The partition name</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file.<br/>A default "name" is provided if none is given.</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                 |
| Request Data    | N/A                                                                                                                                                                                                                                                                 |
| Response Codes  | 200                                                                                                                                                                                                                                                                 |
| Response Header | Content-Type: application/xml or application/json<br>On success<br>Cookie: name= FileDownloadingProgressCookie, value=Done                                                                                                                                          |
| Response Data   | See Figure 56: ekmPartitionActivityList                                                                                                                                                                                                                             |

**Table 267: POST *aml/system/ekm/reports/audit/partitionActivity/email***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Email the list of partition encryption activity records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 266: GET *aml/system/ekm/reports/audit/partitionActivity*.

**Note:** This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

| URI              | <i>aml/system/ekm/reports/audit/partitionActivity/email</i> |
|------------------|-------------------------------------------------------------|
| Method           | <b>POST</b>                                                 |
| User Role Access | Admin, Service, User                                        |
| Version          | 700(i6k), 110(i3/i6)                                        |
| Parameters       | N/A                                                         |
| Request Header   | Content-Type:application/xml or application/json            |
| Request Data     | See Figure 65: email                                        |
| Response Codes   | 200, 403, 412                                               |
| Response Header  | Content-Type:application/xml or application/json            |
| Response Data    | See Figure 192: WSResultCode                                |

**Table 268: GET *aml/system/ekm/servers***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of EKM server resources. These resources report all configured EKM server configured on the library. These servers are used to managed the encryption keys that are used to encrypt/decrypt the data read and written to media in the library.

**Note:** The list of servers returned will be in the sequence order that was used to configure the servers.

| URI              | <i>aml/system/ekm/servers</i>                    |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 58: ekmServersList                    |

**Table 269: POST aml/system/ekm/servers**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Configure new EKM server resources.

**Note:** The order servers are received in the data object is the sequence order the servers will be added.

The Request data will be a little different depending on the EKM server types requested, see the following examples for details:

### QEKM and TKLM

```
<ns2:ekmServers xmlns:ns2="http://automatedMediaLibrary/">
  <ekmServerType>8</ekmServerType>
  <server>
    <hostName>192.168.10.80</hostName>
    <port>3801</port>
  </server>
  <ssl>false</ssl>
</ns2:ekmServers>
```

The ekmServerType must be 8 for QEKM and 32 for TKLM. You must provide at least one server and a maximum of two servers can be configure. If you want to turn on Transport Layer Security (TLS) between the library and the server, set ssl to true.

### SKM

```
<ns2:ekmServers xmlns:ns2="http://automatedMediaLibrary/">
  <ekmServerType>16</ekmServerType>
  <server>
    <hostName>192.168.20.100</hostName>
  </server>
  <server>
    <hostName>192.168.20.101</hostName>
  </server>
</ns2:ekmServers>
```

The ekmServerType must be set to 16. You are required to configure two servers. No

port number is required since it is hard coded to 6000.

## KMIP

```
<ns2:ekmServers xmlns:ns2="http://automatedMediaLibrary/">
  <ekmServerType>4</ekmServerType>
  <server>
    <hostName>10.20.169.146</hostName>
    <port>5696</port>
  </server>
  <server>
    <hostName>10.20.169.147</hostName>
    <port>5696</port>
  </server>
</ns2:ekmServers>
```

The ekmServerType must be set to 4. You must have at least two servers but no more than 10 configured.

You cannot configure a server type if it is already configured. Each server requested must be unique.

The ekmServers.ekmPathDiagnosticsInterval element determines if the path diagnostics test will be run and at what interval. The options are 0-60 minutes, where 0 means do not run these tests.

**Note:** This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

| URI              | <i>aml/system/ekm/servers</i>                                                        |
|------------------|--------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                          |
| User Role Access | Admin, Service                                                                       |
| Version          | 700(i6k), 110(i3/i6)                                                                 |
| Parameters       | N/A                                                                                  |
| Request Header   | Content-Type:application/xml or application/json                                     |
| Request Data     | See Figure 59: ekmServers                                                            |
| Response Codes   | 201, 403, 404, 412                                                                   |
| Response Header  | Content-Type:application/xml or application/json<br>Location: aml/system/ekm/servers |
| Response Data    | See Figure 192: WSResultCode                                                         |

**Table 270: GET aml/system/ekm/servers/{type}**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the EKM servers with the type given by URI path template “type”. The type must be the server type to retrieve, see Figure 59: ekmServers, specifically the ekmServerType field.

| URI              | <i>aml/system/ekm/servers/{type}</i>             |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 59: ekmServers                        |

**Table 271: PUT *aml/system/ekm/servers/{type}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the EKM servers with the type given by URI path template “type”. The type must be the server type you want to update (see Figure 59: ekmServers, the ekmServerType field).

All servers must be supplied in the request data, as this interface reconfigures the EKM servers for a given server type.

**Note:** The order servers are received in the data object is the sequence order the servers will be added.

**Note:** This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

| URI              | <i>aml/system/ekm/servers/{type}</i>             |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 59: ekmServers                        |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 59: ekmServers                        |

**Table 272: DELETE *aml/system/ekm/servers/{type}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the EKM servers with the type given by URI path template “type”. The type must be the server type you want to delete, see Figure 59: ekmServers, the ekmServerType field.

**Note:** You cannot delete a server type if it is currently being used by a partition.

If you delete the servers then any media that was written using keys from the servers, can no longer be read.

| URI              | <i>aml/system/ekm/servers/{type}</i>             |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 273: POST *aml/system/ekm/servers/{type}/test***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Test the EKM servers with the type given by URI path template “type”.

**Note:** This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

| URI              | <i>aml/system/ekm/servers/{type}/test</i>        |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 60: ekmServerTestResultList           |

**Table 274: GET *aml/system/emmc***

**Product Support:** Scalar i3, Scalar i6

**Description:** Retrieve the current eMMC wear level status.

| URI              | <i>aml/system/emmc</i> |
|------------------|------------------------|
| Method           | <b>GET</b>             |
| User Role Access | Admin, Service, User   |
| Version          | 110(i3/i6)             |
| Parameters       | N/A                    |
| Request Header   | N/A                    |
| Request Data     | N/A                    |
| Response Codes   | 200                    |

| URI             | <i>aml/system/emmc</i>                           |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 69: emmc                              |

**Table 275: GET *aml/system/file***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a file from the library. The i6k only allows access to the '/var/log' and '/tmp' directories.

| URI              | <i>aml/system/file</i>                                                                                                                                                                                                                                                                                                                              |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                          |
| User Role Access | Admin, Service                                                                                                                                                                                                                                                                                                                                      |
| Version          | 735(i6k)                                                                                                                                                                                                                                                                                                                                            |
| Parameters       | <p>Query parameters are name and type with the following valid values:</p> <ul style="list-style-type: none"> <li>name=The name of the file you want to retrieve. You must specify the full path of the file you want to retrieve</li> <li>type="binary" or "text"</li> </ul> <p>Note: You must specify the 'name' and 'type' query parameters.</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                 |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                 |
| Response Codes   | 200                                                                                                                                                                                                                                                                                                                                                 |
| Response Header  | Content-Type: text/plain or application/octet-stream                                                                                                                                                                                                                                                                                                |
| Response Data    | The requested file                                                                                                                                                                                                                                                                                                                                  |

**Table 276: GET *aml/system/licenses***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve all license resources. This will report all license features supported by the library, including features that have been installed and those that have not been installed.

| URI              | <i>aml/system/licenses</i>                       |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 109: licenseList                      |

**Table 277: POST aml/system/licenses**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Add a new licensable feature to the library. The object reported in the request data below should have a valid license key in the “feature” element of the “license” object.

| <b>URI</b>       | <b>aml/system/licenses</b>                       |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 110: license                          |
| Response Codes   | 201, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 109: licenseList                      |

**Table 278: GET aml/system/network**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the network resource information.

| <b>URI</b>       | <b>aml/system/network</b>                        |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 129: network                          |

### Table 279: GET aml/system/network/access/certificate

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the Web Server communication certificate installed on the library.

| URI              | aml/system/network/access/certificate            |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 19: communicationCertificate          |

### Table 280: POST aml/system/network/access/certificate

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Upload the signed certificate that was generated using Table 283: POST aml/system/network/access/certificate/csr.

The multipart form data key is 'file' and the value is the file to be uploaded.

After uploading the signed certificate, you will need to activate it (the library web server will start using it). See Table 282: POST aml/system/network/access/certificate/activate.

| URI              | aml/system/network/access/certificate            |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type multipart/formdata                  |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

### Table 281: GET aml/system/network/access/certificate/activate

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Determine if an uploaded, signed certificate on the library has been activated.

| URI              | <i>aml/system/network/access/certificate/activate</i> |
|------------------|-------------------------------------------------------|
| Method           | <b>GET</b>                                            |
| User Role Access | Admin, Service, User                                  |
| Version          | 700(i6k), 110(i3/i6)                                  |
| Parameters       | N/A                                                   |
| Request Header   | N/A                                                   |
| Request Data     | N/A                                                   |
| Response Codes   | 200                                                   |
| Response Header  | Content-Type:test/plain or application/json           |
| Response Data    | "true" or "false"                                     |

**Table 282: POST *aml/system/network/access/certificate/activate***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Activate the signed certificate uploaded to the library using Table 280: POST *aml/system/network/access/certificate*. The Web Server will start to use this certificate to authenticate communications with the Web Browser client.

**Note:** For i6k libraries, this interface will not respond if the request is successful, because the Web Server proxy on the library will be restarted. Subsequent requests should work without having to reestablish a new connection to the library.

| URI              | <i>aml/system/network/access/certificate/activate</i>                                   |
|------------------|-----------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                             |
| User Role Access | Admin, Service                                                                          |
| Version          | 700(i6k), 110(i3/i6)                                                                    |
| Parameters       | N/A                                                                                     |
| Request Header   | N/A                                                                                     |
| Request Data     | N/A                                                                                     |
| Response Codes   | 403, 404                                                                                |
| Response Header  | Content-Type:application/xml or application/json                                        |
| Response Data    | See Figure 192: WSResultCode if there is a failure. If successful there is no response. |

**Table 283: POST *aml/system/network/access/certificate/csr***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Generate a Certificate Signing Request (CSR) to be signed by a Certificate Authority. Once signed the CA Certificate can then be uploaded to the library.

The communicationCertificate fields that are required for generating the CSR are:

keySize, digestAlgorithm and subject (certificateInformation object). The required certificateInformation fields are: commonName.

The maximum allowed characters for countryCode is 2. All other fields have a maximum length of 128 characters.

| URI              | <i>aml/system/network/access/certificate/csr</i>                                                                                                                                                                                                                                                                                                    |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                                                                                                                                                                                                                                                                         |
| User Role Access | Admin, Service                                                                                                                                                                                                                                                                                                                                      |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                |
| Parameters       | Optional query parameters are save with the following valid values:<br>save=name where name is a file name to be used to save the CSR to. The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default name is provided if none is given and is the following, library.csr. |
| Request Header   | Content-Type: application/xml or application/json                                                                                                                                                                                                                                                                                                   |
| Request Data     | See Figure 19: communicationCertificate                                                                                                                                                                                                                                                                                                             |
| Response Codes   | 200, 403                                                                                                                                                                                                                                                                                                                                            |
| Response Header  | Content-Type:application/octet-stream<br>On success and save= parameter is used<br>Cookie: name=<br>FileDownloadingProgressCookie, value=Done                                                                                                                                                                                                       |
| Response Data    | Byte Stream                                                                                                                                                                                                                                                                                                                                         |

**Table 284: GET *aml/system/network/access/certificate/isSigned***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Determine if the certificated installed on the library, for web server communications, was signed by a certificate authority.

| URI              | <i>aml/system/network/access/certificate/isSigned</i> |
|------------------|-------------------------------------------------------|
| Method           | <b>GET</b>                                            |
| User Role Access | Admin, Service, User                                  |
| Version          | 700(i6k), 110(i3/i6)                                  |
| Parameters       | N/A                                                   |
| Request Header   | N/A                                                   |
| Request Data     | N/A                                                   |
| Response Codes   | 200                                                   |
| Response Header  | Content-Type:text/plain or application/json           |
| Response Data    | "true" or "false"                                     |

**Table 285: GET *aml/system/network/interfaces***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the network interfaces resources, eth0 and eth2.

| URI              | <i>aml/system/network/interfaces</i> |
|------------------|--------------------------------------|
| Method           | <b>GET</b>                           |
| User Role Access | Admin, Service, User                 |
| Version          | 700(i6k), 110(i3/i6)                 |

| URI             | <i>aml/system/network/interfaces</i>             |
|-----------------|--------------------------------------------------|
| Parameters      | N/A                                              |
| Request Header  | N/A                                              |
| Request Data    | N/A                                              |
| Response Codes  | 200                                              |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 133: netInterfaceList                 |

**Table 286: GET *aml/system/network/interface/{name}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Request the network interface whose name is given by URI path template “name”. In the data below, name was eth0.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netInterface xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <macAddress>00:30:8C:06:78:B5</macAddress>
  <location>N/A</location>
  <duplexMode>Full</duplexMode>
  <autoNegotiate>false</autoNegotiate>
  <speed>1</speed>
  <linkStatus>1</linkStatus>
</ns2:netInterface>
```

| URI              | <i>aml/system/network/interface/{name}</i>       |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 134: netInterface                     |

**Table 287: PUT *aml/system/network/interface/{name}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the network interface whose name is given by URI path template “name”.

The client request data below indicates that the interface speed should be changed to 1 (10Mb/s).

To revert to auto negotiation set autoNegotiate element to true and remove the speed element. To set a specific speed (1,2 or 3) the autoNegotiate element must be set to false.

**Note:** The i6k only supports setting the speed or auto negotiate elements.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netInterface xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <autoNegotiate>false</autoNegotiate>
  <speed>1</speed>
</ns2:netInterface>
```

| <b>URI</b>       | <b><i>aml/system/network/interface/{name}</i></b> |
|------------------|---------------------------------------------------|
| Method           | <b>PUT</b>                                        |
| User Role Access | Admin, Service                                    |
| Version          | 700(i6k), 110(i3/i6)                              |
| Parameters       | N/A                                               |
| Request Header   | Content-Type:application/xml or application/json  |
| Request Data     | See Figure 134: netInterface                      |
| Response Codes   | 200, 403, 404                                     |
| Response Header  | Content-Type:application/xml or application/json  |
| Response Data    | See Figure 134: netInterface                      |

**Table 288: GET *aml/system/network/configurations***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the network configurations for all the configured interfaces, eth0 and eth2, on the library.

| <b>URI</b>       | <b><i>aml/system/network/configurations</i></b>  |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 131: netConfigurationList             |

**Table 289: GET aml/system/network/configuration/{name}****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the network parameters for the interface given by URI path template “name”. The XML Response Data below is for the following request:<http://lobraryNameOrIP/aml/system/network/configuration/eth0>

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netConfigurationList xmlns:ns2="http://automatedMediaLibrary/">
  <netConfiguration>
    <name>eth0</name>
    <location>N/A</location>
    <version>1</version>
    <hostName>dvt8-jb</hostName>
    <domainName>dvt8-jb</domainName>
    <type>1</type>
    <netMask>64</netMask>
    <netGateway>10.20.168.1</netGateway>
    <ipAddress>10.20.171.17</ipAddress>
  </netConfiguration>
  <netConfiguration>
    <name>eth0</name>
    <location>N/A</location>
    <version>2</version>
    <hostName>dvt8-jb</hostName>
    <domainName>dvt8-jb</domainName>
    <type>3</type>
    <netGateway>0:0:0:0:0:0:0:0</netGateway>
    <ipAddress>2001:db8:ffff:1:230:8cff:fe06:78b5/64</ipAddress>
    <ipAddress>fe80::230:8cff:fe06:78b5/64</ipAddress>
  </netConfiguration>
</ns2:netConfigurationList>
```

| URI              | aml/system/network/configuration/{name}          |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 131: netConfigurationList             |

**Table 290: PUT aml/system/network/configuration/{name}/{version}****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Update the network parameter whose name and version is given by the URI path template “name” and “version”.

The “version” template values are as follows: 1 (IPv4) and 2 (IPv6).

**See the IPv4 examples below for more information:**

**Example 1:** Update the hostname to “TestLibrary” using the IPv4 parameters version. The name, version (1-IPv4) and hostName elements must be specified.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>1</version>
  <hostName>TestLibrary</hostName>
</ns2:netConfiguration>
```

**Example 2:** Set DHCP for IPv4 on eth0. After sending this request, your session will no longer be valid and you will be disconnected from the library.

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>1</version>
  <type>2</type>
</ns2:netConfiguration>
```

**Example 3:** Set a new Static IPv4 address on eth0. After sending this request, your session will no longer be valid and you will be disconnected from the library.

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>1</version>
  <hostName>dvt8-jb</hostName>
  <type>1</type>
  <ipAddress>10.20.171.17</ipAddress>
</ns2:netConfiguration>
```

**See the IPv6 examples below for more information:**

**Example 4:** Set a new Static IPv6 address on interface eth0 where DHCP6 is disabled. If the current IPv6 or DHCP6 address was used to connect to the library, you will be disconnected from the library.

**Note:** When configuring a static IPv6 address on interface eth2, you do not need to supply a netGateway element. The gateway is not required.

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>2</version>
  <type>1</type>
  <netMask>64</netMask>
  <netGateway>fd80::</netGateway>
  <ipAddress>fd80::ffaa:abcd</ipAddress>
</ns2:netConfiguration>
```

**Example 5:** Set DHCP6 on eth2, with no static address, type element = 3.

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth2</name>
  <version>2</version>
  <type>3</type>
</ns2:netConfiguration>
```

**Example 6:** Configure both Static address and DHCP6 for interface eth0. Note the type element is 4 (Static and DHCP).

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>2</version>
  <type>4</type>
  <netMask>64</netMask>
  <netGateway>20FF::</netGateway>
  <ipAddress>20FF::ffaa:abcd</ipAddress>
</ns2:netConfiguration>
```

**Example 7:** Configure new host name for interface eth2 using IPv6. When you configure a new hostname, you must supply the current configuration, static and or DHCP6 setting. Otherwise they will get removed.

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth2</name>
  <version>2</version>
  <hostName>TestLibrary-eth2</hostName>
  <type>4</type>
  <netMask>64</netMask>
  <netGateway>20FF::</netGateway>
  <ipAddress>20FF::ffaa:abcd</ipAddress>
</ns2:netConfiguration>
```

| URI              | <i>aml/system/network/configuration/{name}/{version}</i> |
|------------------|----------------------------------------------------------|
| Method           | PUT                                                      |
| User Role Access | Admin, Service                                           |
| Version          | 700(i6k), 110(i3/i6)                                     |
| Parameters       | N/A                                                      |
| Request Header   | Content-Type:application/xml or application/json         |
| Request Data     | Figure 132: netConfiguration                             |
| Response Codes   | 200, 403, 404                                            |
| Response Header  | Content-Type:application/xml or application/json         |
| Response Data    | See Figure 132: netConfiguration                         |

**Table 291: GET aml/system/network/dns****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the Domain Name Servers (DNS) resource. This resource contains the IP address of the Domain Name Server configured on the library. These servers are used to resolve domain names to IP addresses.

| <b>URI</b>       | <b>aml/system/network/dns</b>                    |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 28: DNS                               |

**Table 292: PUT aml/system/network/dns****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Update the current DNS IP address configuration. To disable DNS just pass down an empty DNS object.

| <b>URI</b>       | <b>aml/system/network/dns</b>                    |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 28: DNS                               |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 28: DNS                               |

**Table 293: GET aml/system/network/emailServer****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the email server configuration resource.

| <b>URI</b>       | <b>aml/system/network/emailServer</b> |
|------------------|---------------------------------------|
| Method           | <b>GET</b>                            |
| User Role Access | Admin, Service, User                  |
| Version          | 700(i6k), 110(i3/i6)                  |
| Parameters       | N/A                                   |

| <b>URI</b>      | <b><i>aml/system/network/emailServer</i></b>     |
|-----------------|--------------------------------------------------|
| Request Header  | N/A                                              |
| Request Data    | N/A                                              |
| Response Codes  | 200                                              |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 66: emailServer                       |

**Table 294: PUT *aml/system/network/emailServer***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the current email server configuration.

**Example 1:** Change the IP address of the email server. The required elements are server and senderEmailAddress. If authorization is turned on, the authorize element is set to true the accountName and accountPassword are required. Otherwise authorization will be turned off as in the following example:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailServer xmlns:ns2="http://automatedMediaLibrary/">
  <server>10.20.169.9</server>
  <senderEmailAddress>john.doe@company.com</senderEmailAddress>
</ns2:emailServer>
```

**Example 2:** Disable the email server. This will prevent the library from sending email notifications and other email features. When the email server is disabled the email server information that was persisted on the library will be deleted.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailServer xmlns:ns2="http://automatedMediaLibrary/">
</ns2:emailServer>
```

| <b>URI</b>       | <b><i>aml/system/network/emailServer</i></b>     |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 66: emailServer                       |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 66: emailServer                       |

**Table 295: GET aml/system/network/internal****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the internal network resource. This resource provides information on the currently configured network address of the library's internal network. It also provides the network address options that are available if a conflict exists between the internal and external network to which the library is connected.

| URI              | <i>aml/system/network/internal</i>               |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 720(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 96: internalNetwork                   |

**Table 296: PUT aml/system/network/internal****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the internal network resource. This should only be used if there is a conflict between the library's internal network and the network the library is connected to. The current element of the internalNetwork object is used to change the internal network. You must use one of the network address options provided by the GET method on this interface.

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:internalNetwork xmlns:ns2="http://automatedMediaLibrary/">
  <current>10.247.240.0</current>
</ns2:internalNetwork>
```

**Note:** Before the changes can take effect, the library will need to be power cycled.

| URI              | <i>aml/system/network/internal</i>               |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 720(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 96: internalNetwork                   |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 96: internalNetwork                   |

### Table 297: GET aml/system/network/ipv6/mode

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the IPv6 current mode (enabled/disabled).

A single string value will be returned and the possible values are:

1 (enabled) or 2 (disabled)

**Note:** This interface has been deprecated, IPv6 is always enabled.

| URI              | aml/system/network/ipv6/mode                |
|------------------|---------------------------------------------|
| Method           | GET                                         |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k)                                    |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200                                         |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | Will always return "1", enabled.            |

### Table 298: PUT aml/system/network/ipv6/mode

**Product Support:** Scalar i6k

**Description:** Change IPv6 mode, 1 (enable) or 2 (disable).

**Note:** This interface has been deprecated, you can no longer disable IPv6.

| URI              | aml/system/network/ipv6/mode                |
|------------------|---------------------------------------------|
| Method           | PUT                                         |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k)                                    |
| Parameters       | N/A                                         |
| Request Header   | Content-Type:text/plain or application/json |
| Request Data     | 1 or 2                                      |
| Response Codes   | 410                                         |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | See Figure 192: WSResultCode                |

**Table 299: POST aml/system/network/emailServer/test****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Test if the email server configuration is valid. The required elements are shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailServer xmlns:ns2="http://automatedMediaLibrary/">
  <server>10.20.169.9</server>
  <senderEmailAddress>admin@quantum.com</senderEmailAddress>
  <testEmailAddress>john.doe@company.com</testEmailAddress>
</ns2:emailServer>
```

| URI              | <i>aml/system/network/emailServer/test</i>       |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 66: emailServer                       |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 300: GET aml/system/network/snmp/MIBs****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the library's SNMP MIBs file.

| URI              | <i>aml/system/network/snmp/MIBs</i>                                                                                                                                                                                                                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                        |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                              |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                              |
| Parameters       | Optional query parameter is save, with the following valid values: <ul style="list-style-type: none"> <li>save="name" where name is a file name to use to save the MIB file to. The file format will be ZIP.</li> </ul> The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given. |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                               |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Codes   | 200                                                                                                                                                                                                                                                                                                                                                                                               |

| <i>URI</i>      | <i>aml/system/network/snmp/MIBs</i>                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Response Header | Content-Type: application/octet-stream<br>On success and when save= parameter is used<br>Cookie: name=FileDownloadingProgressCookie, value=Done |
| Response Data   | Octet stream (ZIP format)                                                                                                                       |

**Table 301: POST *aml/system/network/snmp/MIBs/email***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Email the library's SNMP MIBs file.

| <i>URI</i>       | <i>aml/system/network/snmp/MIBs/email</i>       |
|------------------|-------------------------------------------------|
| Method           | <b>POST</b>                                     |
| User Role Access | Admin, Service                                  |
| Version          | 700(i6k), 110(i3/i6)                            |
| Parameters       | N/A                                             |
| Request Header   | Content-Type: application/xml, application/json |
| Request Data     | See Figure 65: email                            |
| Response Codes   | 200, 403, 412                                   |
| Response Header  | Content-Type: application/xml, application/json |
| Response Data    | See Figure 192: WSResultCode                    |

**Table 302: GET *aml/system/notifications/contact***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the library contact information resource.

| <i>URI</i>       | <i>aml/system/notifications/contact</i>           |
|------------------|---------------------------------------------------|
| Method           | <b>GET</b>                                        |
| User Role Access | Admin, Service, User                              |
| Version          | 700(i6k), 110(i3/i6)                              |
| Parameters       | N/A                                               |
| Request Header   | N/A                                               |
| Request Data     | N/A                                               |
| Response Codes   | 200                                               |
| Response Header  | Content-Type: application/xml or application/json |
| Response Data    | See Figure 22: contactInformation                 |

**Table 303: PUT *aml/system/notifications/contact***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the contact information resource. If any element of the contactInformation object is not included the resulting value will be an empty string.

| <b>URI</b>       | <b><i>aml/system/notifications/contact</i></b>   |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 22: contactInformation                |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 22: contactInformation                |

**Table 304: GET aml/system/notifications/emailRecipients**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of emailRecipients resources. This is a list of e-mail addresses that are stored on the library.

| <b>URI</b>       | <b><i>aml/system/notifications/emailRecipients</i></b> |
|------------------|--------------------------------------------------------|
| Method           | <b>GET</b>                                             |
| User Role Access | Admin, Service, User                                   |
| Version          | 700(i6k), 110(i3/i6)                                   |
| Parameters       | N/A                                                    |
| Request Header   | N/A                                                    |
| Request Data     | N/A                                                    |
| Response Codes   | 200                                                    |
| Response Header  | Content-Type:application/xml or application/json       |
| Response Data    | See Figure 67: emailRecipientList                      |

**Table 305: POST aml/system/notifications/emailRecipients**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Create a new emailRecipient resource. The required element is address.

| <b>URI</b>       | <b><i>aml/system/notifications/emailRecipients</i></b>                                                                  |
|------------------|-------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                                             |
| User Role Access | Admin, Service                                                                                                          |
| Version          | 700(i6k), 110(i3/i6)                                                                                                    |
| Parameters       | N/A                                                                                                                     |
| Request Header   | Content-Type:application/xml or application/json<br>Location:<br>aml/system/notifications/emailRecipients/email address |
| Request Data     | See Figure 68: emailRecipient                                                                                           |
| Response Codes   | 201, 403                                                                                                                |

| <b>URI</b>      | <b><i>aml/system/notifications/emailRecipients</i></b> |
|-----------------|--------------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json       |
| Response Data   | See Figure 192: WSResultCode                           |

**Table 306: GET *aml/system/notifications/emailRecipient/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the emailRecipient resource whose id is given by the URI path template “id”. The id can be either the object id or address.

| <b>URI</b>       | <b><i>aml/system/notifications/emailRecipient/{id}</i></b> |
|------------------|------------------------------------------------------------|
| Method           | <b>GET</b>                                                 |
| User Role Access | Admin, Service, User                                       |
| Version          | 700(i6k), 110(i3/i6)                                       |
| Parameters       | N/A                                                        |
| Request Header   | N/A                                                        |
| Request Data     | N/A                                                        |
| Response Codes   | 200, 404                                                   |
| Response Header  | Content-Type:application/xml or application/json           |
| Response Data    | See Figure 68: emailRecipient                              |

**Table 307: DELETE *aml/system/notifications/emailRecipient/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the emailRecipient resource whose id is given by the URI path template “id”. The id can be either the object id or address.

| <b>URI</b>       | <b><i>aml/system/notifications/emailRecipient/{id}</i></b> |
|------------------|------------------------------------------------------------|
| Method           | <b>DELETE</b>                                              |
| User Role Access | Admin, Service                                             |
| Version          | 700(i6k), 110(i3/i6)                                       |
| Parameters       | N/A                                                        |
| Request Header   | N/A                                                        |
| Request Data     | N/A                                                        |
| Response Codes   | 200, 403, 404                                              |
| Response Header  | Content-Type:application/xml or application/json           |
| Response Data    | See Figure 192: WSResultCode                               |

**Table 308: GET aml/system/notifications/heartbeats**

**Product Support:** Scalar i6k

**Description:** Retrieve a list of heartbeatNotification resources.

**Note:** The following data is contained in the notification email.

Library Heartbeat

Library Name: Sales

Library IPv4 Address: 10.10.0.100

Library Serial Number: 2U31000001

Heartbeat Interval: 60 minutes

RAS Status:

Connectivity : Good

Control : Failed

Media : Good

Drives : Failed

Power : Good

Robotics : Good

Library State: Online/Ready

Date: Fri Nov 07 20:36:08 GMT 2014

| URI              | aml/system/notifications/heartbeats              |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 88: heartbeatNotificationList         |

**Table 309: POST aml/system/notifications/heartbeats**

**Product Support:** Scalar i6k

**Description:** Create a new heartbeatNotification resource. Required fields are: interval and emailAddress.

| URI              | aml/system/notifications/heartbeats              |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 89: heartbeatNotification             |
| Response Codes   | 201, 403                                         |

| <b>URI</b>      | <b><i>aml/system/notifications/heartbeats</i></b>                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json<br>Location:<br>aml/system/notifications/heartbeat/{id} |
| Response Data   | See Figure 192: WSResultCode                                                                             |

**Table 310: GET aml/system/notifications/heartbeat/{id}**

**Product Support:** Scalar i6k

**Description:** Retrieve the heartbeatNotification resource whose id is given by the URI path template “id”.

| <b>URI</b>       | <b><i>aml/system/notifications/heartbeat/{id}</i></b> |
|------------------|-------------------------------------------------------|
| Method           | <b>GET</b>                                            |
| User Role Access | Admin, Service, User                                  |
| Version          | 700(i6k)                                              |
| Parameters       | N/A                                                   |
| Request Header   | N/A                                                   |
| Request Data     | N/A                                                   |
| Response Codes   | 200                                                   |
| Response Header  | Content-Type:application/xml or application/json      |
| Response Data    | See Figure 89: heartbeatNotification                  |

**Table 311: PUT aml/system/notifications/heartbeat/{id}**

**Product Support:** Scalar i6k

**Description:** Modify the heartbeatNotification resource whose id is given by the URI path template “id”.

| <b>URI</b>       | <b><i>aml/system/notifications/heartbeat/{id}</i></b> |
|------------------|-------------------------------------------------------|
| Method           | <b>PUT</b>                                            |
| User Role Access | Admin, Service                                        |
| Version          | 700(i6k)                                              |
| Parameters       | N/A                                                   |
| Request Header   | Content-Type:application/xml or application/json      |
| Request Data     | See Figure 89: heartbeatNotification                  |
| Response Codes   | 200, 403, 404                                         |
| Response Header  | Content-Type:application/xml or application/json      |
| Response Data    | See Figure 89: heartbeatNotification                  |

**Table 312: DELETE aml/system/notifications/heartbeat/{id}**

**Product Support:** Scalar i6k

**Description:** Delete the heartbeatNotification whose id is given by the URI path

template “id”.

| URI              | <i>aml/system/notifications/heartbeat/{id}</i>   |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 313: GET *aml/system/notifications/mediaSecurity***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the media security policy resource.

| URI              | <i>aml/system/notifications/mediaSecurity</i>    |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 122: mediaSecurityPolicy              |

**Table 314: PUT *aml/system/notifications/mediaSecurity***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the media security policy resource. You can configure the library to automatically notify you via a RAS ticket when media is moved in or out of the library, either intentionally or unintentionally. First, you must choose under which circumstances you wish to be notified, and then you must enable automatic inventory on the library.

**Note:** This is a licensed feature (Advanced Reporting).

| URI              | <i>aml/system/notifications/mediaSecurity</i>     |
|------------------|---------------------------------------------------|
| Method           | <b>PUT</b>                                        |
| User Role Access | Admin, Service                                    |
| Version          | 700(i6k), 110(i3/i6)                              |
| Parameters       | N/A                                               |
| Request Header   | Content-Type: application/xml or application/json |
| Request Data     | See Figure 122: mediaSecurityPolicy               |
| Response Header  | Content-Type: application/xml or                  |

|                |                                               |
|----------------|-----------------------------------------------|
| <b>URI</b>     | <b>aml/system/notifications/mediaSecurity</b> |
|                | application/json                              |
| Response Codes | 200, 403, 404                                 |
| Response Data  | See Figure 122: mediaSecurityPolicy           |

**Table 315: GET aml/system/notifications/reports**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of reportNotification resources. These report notifications are scheduled to be e-mailed to recipients on a periodic basis.

|                  |                                                  |
|------------------|--------------------------------------------------|
| <b>URI</b>       | <b>aml/system/notifications/reports</b>          |
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 163: reportNotificationList           |

**Table 316: POST aml/system/notifications/reports**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Create a new report notification resource. The required reportNotification object elements are:

emailAddress – The e-mail address of the recipient you want this report to be sent to.

reportTemplateName – A valid reportTemplate name, the available templates can be found at the following URI Table 348: GET aml/system/reports/templates.

interval – See Figure 164: reportNotification.

If not specified, the enable element will default to false.

**Note:** This is a licensed feature (Advanced Reporting).

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| <b>URI</b>       | <b>aml/system/notifications/reports</b>                                                            |
| Method           | <b>POST</b>                                                                                        |
| User Role Access | Admin, Service                                                                                     |
| Version          | 700(i6k), 110(i3/i6)                                                                               |
| Parameters       | N/A                                                                                                |
| Request Header   | Content-Type:application/xml or application/json<br>Location: aml/system/notifications/report/{id} |
| Request Data     | See Figure 164: reportNotification                                                                 |
| Response Codes   | 200, 403                                                                                           |

| URI             | <i>aml/system/notifications/reports</i>          |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                     |

**Table 317: GET *aml/system/notifications/report/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the reportNotification resource whose id is given by the URI path template “id”.

| URI              | <i>aml/system/notifications/report/{id}</i>      |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 164: reportNotification               |

**Table 318: PUT *aml/system/notifications/report/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Modify the reportNotification resource whose id is given by the URI path template “id”.

**Note:** This is a licensed feature (Advanced Reporting).

| URI              | <i>aml/system/notifications/report/{id}</i>      |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 164: reportNotification               |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 164: reportNotification               |

**Table 319: DELETE *aml/system/notifications/report/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the reportNotification whose id is given by the URI path template “id”.

| <b>URI</b>       | <b><i>aml/system/notifications/report/{id}</i></b> |
|------------------|----------------------------------------------------|
| Method           | <b>DELETE</b>                                      |
| User Role Access | Admin, Service                                     |
| Version          | 700(i6k), 110(i3/i6)                               |
| Parameters       | N/A                                                |
| Request Header   | N/A                                                |
| Request Data     | N/A                                                |
| Response Codes   | 200, 403, 404                                      |
| Response Header  | Content-Type:application/xml or application/json   |
| Response Data    | See Figure 192: WSResultCode                       |

**Table 320: GET *aml/system/notifications/snmpTraps***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the list of snmp trap notification resources.

| <b>URI</b>       | <b><i>aml/system/notifications/snmpTraps</i></b> |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 176: trapNotificationList             |

**Table 321: POST *aml/system/notifications/snmpTraps***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Create a new trapNotification resource. The required fields for i6k, I3 and i6 are host and port.

| <b>URI</b>       | <b><i>aml/system/notifications/snmpTraps</i></b>                                                               |
|------------------|----------------------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                                    |
| User Role Access | Admin, Service                                                                                                 |
| Version          | 700(i6k), 110(i3/i6)                                                                                           |
| Parameters       | N/A                                                                                                            |
| Request Header   | Content-Type:application/xml or application/json                                                               |
| Request Data     | See Figure 177: trapNotification                                                                               |
| Response Codes   | 201, 403                                                                                                       |
| Response Header  | Content-Type:application/xml or application/json<br>Location:<br><i>aml/system/notifications/snmpTrap/{id}</i> |

|               |                                                  |
|---------------|--------------------------------------------------|
| <b>URI</b>    | <b><i>aml/system/notifications/snmpTraps</i></b> |
| Response Data | See Figure 192: WSResultCode                     |

**Table 322: POST *aml/system/notifications/snmpTraps/test***

**Product Support:** Scalar i3, Scalar i6

**Description:** Send a trap notification to a specific IP/host. All elements of the trapNotification object are required except for the id element.

|                  |                                                       |
|------------------|-------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/system/notifications/snmpTraps/test</i></b> |
| Method           | <b>POST</b>                                           |
| User Role Access | Admin, Service                                        |
| Version          | 110(i3/i6)                                            |
| Parameters       | N/A                                                   |
| Request Header   | Content-Type:application/xml or application/json      |
| Request Data     | See Figure 177: trapNotification                      |
| Response Codes   | 200, 403                                              |
| Response Header  | Content-Type:application/xml or application/json      |
| Response Data    | See Figure 192: WSResultCode                          |

**Table 323: GET *aml/system/notifications/snmpTrap/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the snmp trap notification resource whose id is given by the URI path template “id”.

|                  |                                                      |
|------------------|------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/system/notifications/snmpTrap/{id}</i></b> |
| Method           | <b>GET</b>                                           |
| User Role Access | Admin, Service, User                                 |
| Version          | 700(i6k), 110(i3/i6)                                 |
| Parameters       | N/A                                                  |
| Request Header   | N/A                                                  |
| Request Data     | N/A                                                  |
| Response Codes   | 200, 404                                             |
| Response Header  | Content-Type:application/xml or application/json     |
| Response Data    | See Figure 177: trapNotification                     |

**Table 324: PUT *aml/system/notifications/snmpTrap/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update the snmp trap notification resource whose id is given by the URI path template “id”.

|                  |                                                  |
|------------------|--------------------------------------------------|
| URI              | <b>aml/system/notifications/snmpTrap/{id}</b>    |
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 177: trapNotification                 |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 177: trapNotification                 |

**Table 325: DELETE aml/system/notifications/snmpTrap/{id}**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the snmp trap notification resource whose id is given by the URI path template “id”.

|                  |                                                  |
|------------------|--------------------------------------------------|
| <b>URI</b>       | <b>aml/system/notifications/snmpTrap/{id}</b>    |
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 326: GET aml/system/notifications/tickets**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve a list of RAS notification resources. These RAS notifications are e-mailed to recipients when a RAS ticket is opened. You can also filter tickets depending on the severity of the ticket.

|                  |                                                  |
|------------------|--------------------------------------------------|
| <b>URI</b>       | <b>aml/ system/notifications/tickets</b>         |
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |

|               |                                                 |
|---------------|-------------------------------------------------|
| <b>URI</b>    | <b><i>aml/ system/notifications/tickets</i></b> |
| Response Data | See Figure 158: rasNotificationList             |

**Table 327: POST *aml/system/notifications/tickets***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Create a new RAS notification resource. The required rasNotification object elements are:

*emailAddress* – e-mail address to receive the notification.

*enabled* – set to true, otherwise the notification will not be sent.

*severity1 ... severity5* – Severities set to true will receive email notifications.

|                  |                                                  |
|------------------|--------------------------------------------------|
| <b>URI</b>       | <b><i>aml/system/notifications/tickets</i></b>   |
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 159: rasNotification                  |
| Response Codes   | 201, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 328: GET *aml/system/notifications/ticket/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the RAS notification resource whose id is given by the URI path template “id”.

|                  |                                                    |
|------------------|----------------------------------------------------|
| <b>URI</b>       | <b><i>aml/system/notifications/ticket/{id}</i></b> |
| Method           | <b>GET</b>                                         |
| User Role Access | Admin, Service, User                               |
| Version          | 700(i6k), 110(i3/i6)                               |
| Parameters       | N/A                                                |
| Request Header   | N/A                                                |
| Request Data     | N/A                                                |
| Response Codes   | 200, 404                                           |
| Response Header  | Content-Type:application/xml or application/json   |
| Response Data    | See Figure 159: rasNotification                    |

**Table 329: PUT *aml/system/notifications/ticket/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Modify the RAS notification resource whose id is given by the URI path template “id”.

| <b>URI</b>       | <b><i>aml/system/notifications/ticket/{id}</i></b> |
|------------------|----------------------------------------------------|
| Method           | <b>PUT</b>                                         |
| User Role Access | Admin, Service                                     |
| Version          | 700(i6k), 110(i3/i6)                               |
| Parameters       | N/A                                                |
| Request Header   | Content-Type:application/xml or application/json   |
| Request Data     | See Figure 159: rasNotification                    |
| Response Codes   | 200, 403, 404                                      |
| Response Header  | Content-Type:application/xml or application/json   |
| Response Data    | See Figure 159: rasNotification                    |

**Table 330: DELETE *aml/system/notifications/ticket/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the RAS notification whose id is given by the URI path template “id”.

| <b>URI</b>       | <b><i>aml/system/notifications/ticket/{id}</i></b> |
|------------------|----------------------------------------------------|
| Method           | <b>DELETE</b>                                      |
| User Role Access | Admin, Service                                     |
| Version          | 700(i6k), 110(i3/i6)                               |
| Parameters       | N/A                                                |
| Request Header   | N/A                                                |
| Request Data     | N/A                                                |
| Response Codes   | 200, 403, 404                                      |
| Response Header  | Content-Type:application/xml or application/json   |
| Response Data    | See Figure 192: WSResultCode                       |

### Table 331: POST aml/system/operations/reboot

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Reboot the library.

| URI              | aml/system/operations/reboot                     |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

### Table 332: POST aml/system/operations/shutdown

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Shutdown the library. After the library has been shut down, you will need to physically power the library down by using the power button on the library's Control Module.

| URI              | aml/system/operations/shutdown                   |
|------------------|--------------------------------------------------|
| Method           | POST                                             |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

### Table 333: GET aml/system/policy/externalApplicationServers

**Product Support:** Scalar i6k, Scalar i6

**Description:** Retrieve a list of externalApplicationServers resources. These servers can be used when configuring Extended Data Life Management (EDLM) and Active Vault policies. If StorNext Storage Manager is managing your partition, you can configure a policy to use StorNext with Active Vault and/or EDLM. This feature requires an external application server(s) (StorNext) to be configured.

| URI              | aml/system/policy/externalApplicationServers |
|------------------|----------------------------------------------|
| Method           | GET                                          |
| User Role Access | Admin, Service, User                         |

| URI             | <i>aml/system/policy/externalApplicationServers</i> |
|-----------------|-----------------------------------------------------|
| Version         | 700(i6k), 110(i6)                                   |
| Parameters      | N/A                                                 |
| Request Header  | N/A                                                 |
| Request Data    | N/A                                                 |
| Response Codes  | 200                                                 |
| Response Header | Content-Type:application/xml or application/json    |
| Response Data   | See Figure 76: externalApplicationServersList       |

**Table 334: POST *aml/system/policy/externalApplicationServers***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Configure new external application (StorNext) servers. The following externalApplicationServers elements are required:

name: the name value must be unique.

server: at least one server element is required, and both name and port elements of the server are required. The externalApplicationName is required if you are not using the StorNext Web Services interface. It must point to a configured externalApplication plugin, which the library will use to communicate with the external servers.

If you are using the StorNext Web Services interface, you must provide a 'username' and 'password'. The username and password can be found on the StorNext server.

To see what externalApplications are configured use this URI: Table 367: GET *aml/system/software/externalApplications*.

**Note:** This is a licensed feature (EDLM and/or Active Vault).

| URI              | <i>aml/system/policy/externalApplicationServers</i>                                                                  |
|------------------|----------------------------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                                          |
| User Role Access | Admin, Service                                                                                                       |
| Version          | 700(i6k), 110(i6)                                                                                                    |
| Parameters       | N/A                                                                                                                  |
| Request Header   | Content-Type:application/xml or application/json                                                                     |
| Request Data     | See Figure 77: externalApplicationServers                                                                            |
| Response Codes   | 201, 403                                                                                                             |
| Response Header  | Content-Type:application/xml or application/json<br>Location:<br><i>aml/system/externalApplicationServers/{name}</i> |
| Response Data    | See Figure 192: WSResultCode                                                                                         |

**Table 335: GET *aml/system/policy/externalApplicationServer/{name}***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Retrieve the externalApplicationServers with the name given by URI path template "name".

| URI              | <i>aml/system/policy/externalApplicationServer/{name}</i> |
|------------------|-----------------------------------------------------------|
| Method           | GET                                                       |
| User Role Access | Admin, Service, User                                      |
| Version          | 700(i6k), 110(i6)                                         |
| Parameters       | N/A                                                       |
| Request Header   | N/A                                                       |
| Request Data     | N/A                                                       |
| Response Codes   | 200, 404                                                  |
| Response Header  | Content-Type:application/xml or application/json          |
| Response Data    | See Figure 77: externalApplicationServers                 |

**Table 336: PUT *aml/system/policy/externalApplicationServer/{name}***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Modify the externalApplicationServers with the name given by URI path template “name”.

The example below will change the name of the externalApplicationServers from EDLMservers to StorNext and reconfigure the policy to use server 10.20.169.88 only using the following URI:

“aml/system/policy/externalApplicationServer/EDLMservers”

```
<ns2:externalApplicationServers xmlns:ns2="http://automatedMediaLibrary/">
  <name>StorNext</name>
  <server>
    <name>10.20.169.88</name>
    <port>61776</port>
  </server>
</ns2:externalApplicationServers>
```

If you just want to change the name, then just specify the name

```
<ns2:externalApplicationServers xmlns:ns2="http://automatedMediaLibrary/">
  <name>StorNext5.0</name>
</ns2:externalApplicationServers>
```

If you just want to change the external application name plugin

```
<ns2:externalApplicationServers xmlns:ns2="http://automatedMediaLibrary/">
  externalApplicationName>snapi-2.0.1</externalApplicationName>
</ns2:externalApplicationServers>
```

You can specify any combination of the above.

| URI              | <i>aml/system/policy/externalApplicationServer/{name}</i> |
|------------------|-----------------------------------------------------------|
| Method           | PUT                                                       |
| User Role Access | Admin, Service                                            |
| Version          | 700(i6k), 110(i6)                                         |
| Parameters       | N/A                                                       |
| Request Header   | Content-Type:application/xml or application/json          |
| Request Data     | See Figure 77: externalApplicationServers                 |
| Response Codes   | 200, 403, 404                                             |

| <i>URI</i>      | <i>aml/system/policy/externalApplicationServer/{name}</i> |
|-----------------|-----------------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json          |
| Response Data   | See Figure 77: externalApplicationServers                 |

**Table 337: DELETE *aml/system/policy/externalApplicationServer/{name}***

**Product Support:** Scalar i6k, Scalar i6

**Description:** Delete the externalApplicationServers with the name given by URI path template “name”.

| <i>URI</i>       | <i>aml/system/policy/externalApplicationServer/{name}</i> |
|------------------|-----------------------------------------------------------|
| Method           | <b>DELETE</b>                                             |
| User Role Access | Admin, Service                                            |
| Version          | 700(i6k), 110(i6)                                         |
| Parameters       | N/A                                                       |
| Request Header   | N/A                                                       |
| Request Data     | N/A                                                       |
| Response Codes   | 200, 403, 404                                             |
| Response Header  | Content-Type:application/xml or application/json          |
| Response Data    | See Figure 192: WSResultCode                              |

**Table 338: GET *aml/system/ras***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the Reliability, Accessibility and Serviceability (RAS) group status resource list.

**Note:** The Scalar i6k does not support group 0 (Library).

| <i>URI</i>       | <i>aml/system/ras</i>                            |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 150: RASGroupStatusList               |

**Table 339: GET *aml/system/ras/{group}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the RAS group status resource given by URI path template “group”.

**Note:** The Scalar i6k supports overall Library RAS status reporting by requesting status for group 0.

| URI              | <i>aml/system/ras/{group}</i>                    |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 151: RASGroupStatus                   |

**Table 340: GET *aml/system/ras/tickets***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the ticket summary resource instances using the query parameter filters.

To retrieve all drive and control ticket summaries that are currently opened you would specify the following:

“aml/system/ras/tickets?group=20&state=4”

Status queries support bit mask queries for group, status and state values. For example, as shown above, group 20 represents group 4(control) + group 16(drive).

| URI              | <i>aml/system/ras/tickets</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Parameters       | <p>Query parameters are group, status, state, serviceUser</p> <ul style="list-style-type: none"> <li>group values               <ul style="list-style-type: none"> <li>255 (All),</li> <li>2 (Connectivity),</li> <li>4 (Control),</li> <li>8 (Media),</li> <li>16 (Drive),</li> <li>32 (Power),</li> <li>64 (Robotics)</li> <li>128 (Library) I3/i6 Only</li> </ul> </li> <li>status values               <ul style="list-style-type: none"> <li>255 (All)</li> <li>4 (Failed),</li> <li>8 (Degraded),</li> <li>16 (Warning)</li> </ul> </li> </ul> |

| URI             | aml/system/ras/tickets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <ul style="list-style-type: none"> <li>state values<br/>255 (All),<br/>4 (Opened),<br/>16 (Closed),<br/>32 (Verified)<br/>64 (Suspended) (I3/i6 Only)</li> <li>serviceUser values (i6k only, added in version 751)<br/>true (report tickets that were opened or updated when the service user was logged in)<br/>false (report tickets that were opened or updated when the service user was not logged in)</li> </ul> <p>These Query parameters work like a bit mask, for instance if you want find tickets belonging to Control and Media you would specify 12 (4+8).</p> |
| Request Header  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Request Data    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Codes  | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response Header | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Response Data   | See Figure 155: RASTicketList                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Table 341: GET aml/system/ras/ticket/{id}**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the ticket resource instance with the value given by the URI path template “id”.

| URI              | aml/system/ras/ticket/{id}                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Parameters       | <p>Optional query parameter is save, with the following valid values:</p> <ul style="list-style-type: none"> <li>save="name" where name is a file name to use to save the ticket information and resolution to. The file format will be in zip format.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided if none is given.</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| <b>URI</b>      | <b><i>aml/system/ras/ticket/{id}</i></b>                                                                                                                                               |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Request Data    | N/A                                                                                                                                                                                    |
| Response Codes  | 200, 404                                                                                                                                                                               |
| Response Header | Content-Type: application/xml,<br>application/json or application/octet-stream<br>On success and save= parameter is used<br>Cookie: name=<br>FileDownloadingProgressCookie, value=Done |
| Response Data   | See Figure 156: RASTicket                                                                                                                                                              |

**Table 342: PUT *aml/system/ras/ticket/{id}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Change the ticket resource instance state with the value given by URI path template “id”. The state will be changed to Closed. Only tickets that are in an ‘Open’ state can be closed.

| <b>URI</b>       | <b><i>aml/system/ras/ticket/{id}</i></b>             |
|------------------|------------------------------------------------------|
| Method           | <b>PUT</b>                                           |
| User Role Access | Admin, Service                                       |
| Version          | 700(i6k), 110(i3/i6)                                 |
| Parameters       | N/A                                                  |
| Request Header   | N/A                                                  |
| Request Data     | N/A                                                  |
| Response Codes   | 200, 403, 404                                        |
| Response Header  | Content-Type: application/xml or<br>application/json |
| Response Data    | See Figure 156: RASTicket                            |

**Table 343: POST *aml/system/ras/ticket/{id}/email***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Email the ticket information to the recipients contained in the email object.

The email will have an attachment containing the resolution and the body will contain ticket information.

| <b>URI</b>       | <b><i>aml/system/ras/ticket/{id}/email</i></b>      |
|------------------|-----------------------------------------------------|
| Method           | <b>POST</b>                                         |
| User Role Access | Admin, Service                                      |
| Version          | 700(i6k), 110(i3/i6)                                |
| Parameters       | N/A                                                 |
| Request Header   | Content-Type:application/xml or<br>application/json |
| Request Data     | See Figure 65: email                                |
| Response Codes   | 200, 403, 404, 412                                  |
| Response Header  | Content-Type:application/xml or<br>application/json |

|               |                                                |
|---------------|------------------------------------------------|
| <b>URI</b>    | <b><i>aml/system/ras/ticket/{id}/email</i></b> |
| Response Data | See Figure 192: WSResultCode                   |

**Table 344: GET *aml/system/ras/ticket/{id}/history***

**Product Support:** Scalar i6k

**Description:** Retrieve the ticket resource history list of related tickets for the ticket with the “id” given by URI path template “id”.

|                  |                                                  |
|------------------|--------------------------------------------------|
| <b>URI</b>       | <b><i>aml/system/ras/ticket/{id}/history</i></b> |
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 155: RASTicketList                    |

**Table 345: GET *aml/system/ras/ticket/{id}/reports***

**Product Support:** Scalar i6k

**Description:** Retrieve the ticket resource reports list for the ticket with the “id” given by URI path template “id”.

|                  |                                                  |
|------------------|--------------------------------------------------|
| <b>URI</b>       | <b><i>aml/system/ras/ticket/{id}/reports</i></b> |
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 154: RASTicketReports                 |

**Table 346: GET aml/system/ras/ticket/{id}/resolution****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the RAS ticket resolution information. You can request a byte stream or an html page.

| <b>URI</b>       | <b>aml/system/ras/ticket/{id}/resolution</b>                                                                                                                                                                                                                                                                                                                                                            |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                              |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                    |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                    |
| Parameters       | Optional query parameter is save with the following valid values: <ul style="list-style-type: none"> <li>save="name" where name is a file name to use to save the ticket resolution to. The file format is HTML</li> </ul> The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file.<br>A default "name" is provided if none is given. |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                     |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Codes   | 200, 404                                                                                                                                                                                                                                                                                                                                                                                                |
| Response Header  | Content-Type: application/octet-stream or text/html<br>On success and save= parameter is used<br>Cookie: name=FileDownloadingProgressCookie, value=Done                                                                                                                                                                                                                                                 |
| Response Data    | Byte Stream or text/html                                                                                                                                                                                                                                                                                                                                                                                |

**Table 347: GET aml/system/reports****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the list of supported reports.

| <b>URI</b>       | <b>aml/system/reports</b>                        |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 160: reportList                       |

**Table 348: GET aml/system/reports/templates****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the list of report template resource instances. A report template is used to save report filtering data that can be used to create a report using these saved filters.

| URI              | aml/system/reports/templates                     |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 165: reportTemplateList               |

**Table 349: POST aml/system/reports/templates****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Create a new reportTemplate resource. When you specify a reportCriteria for the new reportTemplate, the supported reportCriteria options will depend on the report type. You will need to look at the following URI's to see what reportCriteria options are available for each report.

Table 144: GET aml/media/reports/tapeAlerts

Table 91: GET aml/drives/reports/utilization

Table 146: GET aml/media/reports/usage

Table 142: GET aml/media/reports/securityEvents

Table 136: GET aml/media/reports/crossPartitionMoves

Table 140: GET aml/media/reports/inventory

Table 138: GET aml/media/reports/edlm

Table 264: GET aml/system/ekm/reports/audit/mediaStatus

Table 266: GET aml/system/ekm/reports/audit/partitionActivity

Table 387: GET aml/users/reports/login

Table 159: GET aml/partitions/reports/utilization

The reportTemplate name can only contain the following characters A-Z a-z 0-9 \_ and spaces. The maximum number of character allowed is 64.

| URI              | aml/system/reports/templates |
|------------------|------------------------------|
| Method           | POST                         |
| User Role Access | Admin, Service               |
| Version          | 700(i6k), 110(i3/i6)         |
| Parameters       | N/A                          |

| <b>URI</b>      | <b>aml/system/reports/templates</b>                                                             |
|-----------------|-------------------------------------------------------------------------------------------------|
| Request Header  | Content-Type:application/xml or application/json                                                |
| Request Data    | See Figure 166: reportTemplate                                                                  |
| Response Codes  | 201, 403                                                                                        |
| Response Header | Content-Type:application/xml or application/json<br>Location: aml/system/reports/templates/{id} |
| Response Data   | See Figure 165: reportTemplateList                                                              |

**Table 350: GET aml/system/reports/template/{name}**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the report template resource instance whose name is given by the URI path template “name”.

| <b>URI</b>       | <b>aml/system/reports/template/{name}</b>        |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 166: reportTemplate                   |

**Table 351: PUT aml/system/reports/template/{name}**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update a reportTemplate resource instance with the name given by the URI path template “name”.

If you are modifying the reportTemplate name you need to specify the current reportTemplate id.

| <b>URI</b>       | <b>aml/system/reports/template/{name}</b>        |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | Figure 166: reportTemplate                       |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 166: reportTemplate                   |

**Table 352: DELETE aml/system/reports/template/{name}****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Delete the reportTemplate resource instance whose name is represented by the URI path template “name”.

| URI              | aml/system/reports/template/{name}               |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 353: GET aml/system/saveRestore****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Create a restore (library configuration) image. This image will be the payload in the response body. This image can be used to restore the library's configuration information.

| URI              | aml/system/saveRestore                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                   |
| User Role Access | Admin, Service                                                                                                                                                                                                                                                                                                                                                                                                               |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Parameters       | Optional query parameter is save, with the following valid values: <ul style="list-style-type: none"> <li>save="name" where name is a file name to use to save the rescue image. The file format will be gzip-ed tar file '.tar.gz'.</li> </ul> The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file.<br>A default "name" is provided if none is given. |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Response Codes   | 200, 403                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Header  | Content-Type: application/x-tar<br>On success and save= parameter is used<br>Cookie: name= FileDownloadingProgressCookie, value=Done                                                                                                                                                                                                                                                                                         |
| Response Data    | Byte Stream (Compressed tar format)                                                                                                                                                                                                                                                                                                                                                                                          |

**Table 354: POST aml/system/saveRestore****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Restore a saved configuration. Upload the configuration file using multipart form data, where the key is 'file' and the value is the file to be uploaded. After the restore is completed the library will reboot.

| <b>URI</b>       | <b>aml/system/saveRestore</b>                      |
|------------------|----------------------------------------------------|
| Method           | <b>POST</b>                                        |
| User Role Access | Admin, Service                                     |
| Version          | 700(i6k), 110(i3/i6)                               |
| Parameters       | N/A                                                |
| Request Header   | Content-Type: multipart/form-data                  |
| Request Data     | N/A                                                |
| Response Codes   | 200, 403, 404                                      |
| Response Header  | Content-Type: application/xml,<br>application/json |
| Response Data    | See Figure 192: WSResultCode                       |

**Table 355: GET aml/system/saveRestore/rescue****Product Support:** Scalar i6k**Description:** Determine if a rescue image has been created on the library.

| <b>URI</b>       | <b>aml/system/saveRestore/rescue</b>        |
|------------------|---------------------------------------------|
| Method           | <b>GET</b>                                  |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200                                         |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | true or false                               |

**Table 356: POST aml/system/saveRestore/rescue****Product Support:** Scalar i6k**Description:** Create a rescue image on the library's file system. This image contains the library's current configuration information.

| <b>URI</b>       | <b>aml/system/saveRestore/rescue</b> |
|------------------|--------------------------------------|
| Method           | <b>POST</b>                          |
| User Role Access | Admin, Service                       |
| Version          | 700(i6k), 110(i3/i6)                 |
| Parameters       | N/A                                  |
| Request Header   | N/A                                  |
| Request Data     | N/A                                  |

| <i>URI</i>      | <i>aml/system/saveRestore/rescue</i>               |
|-----------------|----------------------------------------------------|
| Response Codes  | 200, 403                                           |
| Response Header | Content-Type: application/xml,<br>application/json |
| Response Data   | See Figure 192: WSResultCode                       |

**Table 357: PUT aml/system/saveRestore/rescue**

**Product Support:** Scalar i6k

**Description:** Restore a library's configuration using the rescue image. The rescue image allows you to roll back the library's configuration settings to a previous state.

**Note:** After the operation has completed the library will automatically reboot.

| <i>URI</i>       | <i>aml/system/saveRestore/rescue</i>               |
|------------------|----------------------------------------------------|
| Method           | <b>PUT</b>                                         |
| User Role Access | Admin, Service                                     |
| Version          | 700(i6k), 110(i3/i6)                               |
| Parameters       | N/A                                                |
| Request Header   | N/A                                                |
| Request Data     | N/A                                                |
| Response Codes   | 200, 403, 404                                      |
| Response Header  | Content-Type: application/xml,<br>application/json |
| Response Data    | See Figure 192: WSResultCode                       |

**Table 358: GET aml/system/saveRestore/revert**

**Product Support:** Scalar i6k

**Description:** Determine if a revert image has been created on the library. The revert image is automatically created and stored locally as the first step of any restore or rescue operation. The purpose of the Revert process is to revert to the last configuration that was used before a restore image was applied. If an incorrect restore image was applied, the Revert feature allows the MCB to revert to its prior configuration.

| <i>URI</i>       | <i>aml/system/saveRestore/revert</i>        |
|------------------|---------------------------------------------|
| Method           | <b>GET</b>                                  |
| User Role Access | Admin, Service, User                        |
| Version          | 700(i6k), 110(i3/i6)                        |
| Parameters       | N/A                                         |
| Request Header   | N/A                                         |
| Request Data     | N/A                                         |
| Response Codes   | 200                                         |
| Response Header  | Content-Type:text/plain or application/json |
| Response Data    | true or false                               |

**Table 359: PUT aml/system/saveRestore/revert****Product Support:** Scalar i6k**Description:** Restore a library's configuration using the Revert image.**Note:** After the operation has completed the library will automatically reboot.

| URI              | <i>aml/system/saveRestore/revert</i>             |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 360: GET aml/system/sensors****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Retrieve the sensor resource instances for the library. The sensor list will include cooling, power, temperature, voltage and humidity sensors for Scalar i6k and power, temperature and humidity sensors for the Scalar i3/i6.**Note:** The query parameter type="voltage" has been deprecated in Scalar i6k version 743. The query will return an empty list.

| URI              | <i>aml/system/sensors</i>                                                                                                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                             |
| User Role Access | Admin, Service, User                                                                                                                                                                                                   |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                   |
| Parameters       | Query parameter names are "type" with the following valid values <ul style="list-style-type: none"> <li>type = "cooling" (i6k only), "temperature", "voltage" (i6k only, deprecated), "power" or "humidity"</li> </ul> |
| Request Header   | N/A                                                                                                                                                                                                                    |
| Request Data     | N/A                                                                                                                                                                                                                    |
| Response Codes   | 200                                                                                                                                                                                                                    |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                                       |
| Response Data    | See Figure 171: sensorList                                                                                                                                                                                             |

**Table 361: GET aml/system/snapshot****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Capture a snapshot of the type specified by the given query parameter. The snapshot will be returned in the body of the response.**Note:** This is a licensed feature (Service) for i3/i6.

| URI              | <i>aml/system/snapshot</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| User Role Access | Admin, Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Parameters       | <p>Query parameters are type and save where the valid values are as follows:</p> <ul style="list-style-type: none"> <li>type=basic, extended, reduced (i3/i6 only).<br/>If no type is requested an extended snapshot will be captured for i6k and a basic will be captured for i3/i6.</li> <li>save="name" where name is a file name to use to save the snap shot to.<br/>The file format will be tgz.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file.<br/>A default "name" is provided if none is given.</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response Codes   | 200, 403                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Header  | <p>Content-Type: application/x-tar, application/xml or application/json</p> <p>On success and save= parameter is used</p> <p>Cookie: name= FileDownloadingProgressCookie, value=Done</p>                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Data    | Compress tar file (byte stream).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Table 362: POST aml/system/snapshot/email****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Email a snapshot file log collection.

The information will be in an email attachment and the file format will be TGZ.

**Note:** This is a licensed feature (Service) for i3/i6.

| URI              | <i>aml/system/snapshot/email</i>          |
|------------------|-------------------------------------------|
| Method           | <b>POST</b>                               |
| User Role Access | Admin, Service                            |
| Version          | 700(i6k), 110(i3/i6)                      |
| Parameters       | Query parameters are type where the valid |

| URI             | <i>aml/system/snapshot/email</i>                                                                                                                                                                                                      |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | values are as follows: <ul style="list-style-type: none"> <li>type=basic, extended or reduced (i3/i6 only).</li> </ul> If no type is requested, an extended snapshot will be captured for i6k and a basic will be captured for i3/i6. |
| Request Header  | Content-Type:application/xml or application/json                                                                                                                                                                                      |
| Request Data    | See Figure 65: email                                                                                                                                                                                                                  |
| Response Codes  | 200, 403, 412                                                                                                                                                                                                                         |
| Response Header | Content-Type:application/xml or application/json                                                                                                                                                                                      |
| Response Data   | See Figure 192: WSResultCode                                                                                                                                                                                                          |

**Table 363: GET aml/system/software**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the current library firmware components/distributions and versions saved on the library. The list will contain the currently installed version, component = Current, the previous distribution that was installed, component = Rollback and a distribution that has been uploaded to the library, component = Uploaded. For i6k library's, this uploaded component can be installed at any time if the version of this component is greater than the currently installed version.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareList xmlns:ns2="http://automatedMediaLibrary/">
  <lastInstallDate>2014-06-02 09:57:50 -0600</lastInstallDate>
  <firmware>
    <component>Current</component>
    <version>665H.TS07401</version>
  </firmware>
  <firmware>
    <component>Rollback</component>
    <version>665H.TS06701</version>
  </firmware>
  <firmware>
    <component>Uploaded</component>
    <version></version>
  </firmware>
</ns2:firmwareList>
```

| URI              | <i>aml/system/software</i> |
|------------------|----------------------------|
| Method           | <b>GET</b>                 |
| User Role Access | Admin, Service, User       |
| Version          | 700(i6k), 110(i3/i6)       |
| Parameters       | N/A                        |
| Request Header   | N/A                        |
| Request Data     | N/A                        |
| Response Codes   | 200                        |

| URI             | <i>aml/system/software</i>                       |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 80: firmwareList                      |

**Table 364: POST *aml/system/software***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Upload the software component/distribution file using multipart form data, where the key is 'file' and the value is the file to be uploaded. This will upload the distribution software to the library. This does not install this new distribution. To install it see: Table 365: GET *aml/system/software/operations/update*.

**Note:** For i6k libraries, the description element of the WSResultCode object will contain a colon ":" separated name value pair list as following, for successful request:

STATUS="OK" or "WARNING"

MESSAGE="Some message"

Example: <description>STATUS=OK:MESSAGE=Signed by Production Certificate</description>

**Note:** This is a licensed feature for i3/i6 (Service).

| URI              | <i>aml/system/software</i>                       |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type: multipart/form-data                |
| Request Data     | Software distribution file                       |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 365: GET *aml/system/software/operations/update***

**Product Support:** Scalar i6k

**Description:** Retrieve the progress of the current software update operation. This will report the current installation status. Initially, the status element may be empty but as the installation progresses, it will report a % complete. When the software update has completed, the status components will all report 100% or Failed if there was a problem.

The updateState element will report the overall state of the software update, see Figure 86: firmwareStatusList for details.

**Example:**

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

```

<ns2:firmwareStatusList xmlns:ns2="http://automatedMediaLibrary/">
  <updateState>2</updateState>
  <firmwareStatus>
    <component>FDM</component>
    <status>Awaiting RCU -- Overall 4%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>AMC</component>
    <status>100%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>MCB</component>
    <status>100%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>RCU</component>
    <status>5%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>CMB</component>
    <status>100%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>EEB</component>
    <status>100%</status>
  </firmwareStatus>
</ns2:firmwareStatusList>

```

**Note:** After the software update has completed successfully the library will automatically be rebooted, so the connection to the library will be lost and any requests to the library at this time will receive a 503 status code (Service Unavailable).

| URI              | aml/system/software/operations/update            |
|------------------|--------------------------------------------------|
| Method           | GET                                              |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 86: firmwareStatusList                |

**Table 366: POST aml/system/software/operations/update**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Start the software installation for the given firmware object. In the example below we decided to install the previously installed software distribution (Rollback).

**Note:** After the install/update has completed the library will automatically be rebooted.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmware xmlns:ns2="http://automatedMediaLibrary/">
  <component>Rollback</component>
  <version>665H.TS07401</version>
</ns2:firmware>
```

| URI              | <i>aml/system/software/operations/update</i>     |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 81: firmware                          |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 367: GET *aml/system/software/externalApplications***

**Product Support:** Scalar i6k

**Description:** Retrieve a list of externalApplication resources. This will report the StorNext plugins installed on the library.

| URI              | <i>aml/system/software/externalApplications</i>  |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k)                                         |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 74: externalApplicationList           |

**Table 368: POST *aml/system/software/externalApplications***

**Product Support:** Scalar i6k

**Description:** Upload an external application file using form data, where the key is 'file' and the value is the filename.

| URI              | <i>aml/system/software/externalApplications</i> |
|------------------|-------------------------------------------------|
| Method           | <b>GET</b>                                      |
| User Role Access | Admin, Service                                  |
| Version          | 700(i6k)                                        |
| Parameters       | N/A                                             |

| <b>URI</b>      | <b><i>aml/system/software/externalApplications</i></b>                                                          |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| Request Header  | Content-Type: multipart/form-data                                                                               |
| Request Data    | The external application file                                                                                   |
| Response Codes  | 201, 403                                                                                                        |
| Response Header | Content-Type:application/xml or application/json<br>Location:<br>aml/system/software/externalApplication/{name} |
| Response Data   | See Figure 192: WSResultCode                                                                                    |

**Table 369: GET *aml/system/software/externalApplication/{name}***

**Product Support:** Scalar i6k

**Description:** Retrieve the externalApplication resource given by the URI path template “name”.

| <b>URI</b>       | <b><i>aml/system/software/externalApplication/{name}</i></b> |
|------------------|--------------------------------------------------------------|
| Method           | <b>GET</b>                                                   |
| User Role Access | Admin, Service, User                                         |
| Version          | 700(i6k)                                                     |
| Parameters       | N/A                                                          |
| Request Header   | N/A                                                          |
| Request Data     | N/A                                                          |
| Response Codes   | 200, 404                                                     |
| Response Header  | Content-Type:application/xml or application/json             |
| Response Data    | See Figure 75: externalApplication                           |

**Table 370: DELETE *aml/system/software/externalApplication/{name}***

**Product Support:** Scalar i6k

**Description:** Delete the external application file given by the URI path template “name”.

| <b>URI</b>       | <b><i>aml/system/software/externalApplication/{name}</i></b> |
|------------------|--------------------------------------------------------------|
| Method           | <b>DELETE</b>                                                |
| User Role Access | Admin, Service                                               |
| Version          | 700(i6k)                                                     |
| Parameters       | N/A                                                          |
| Request Header   | N/A                                                          |
| Request Data     | N/A                                                          |
| Response Codes   | 200, 403, 404                                                |
| Response Header  | Content-Type:application/xml or application/json             |
| Response Data    | See Figure 192: WSResultCode                                 |

**Table 371: GET *aml/system/software/availableFirmware***

**Product Support:** Scalar i3, Scalar i6

**Description:** Retrieve the available firmware resource. This object reports the latest library firmware version that is available on the Web.

| <b>URI</b>       | <b><i>aml/system/software/availableFirmware</i></b> |
|------------------|-----------------------------------------------------|
| Method           | <b>GET</b>                                          |
| User Role Access | Admin, Service, User                                |
| Version          | 110(i3/i6)                                          |
| Parameters       | N/A                                                 |
| Request Header   | N/A                                                 |
| Request Data     | N/A                                                 |
| Response Codes   | 200                                                 |
| Response Header  | Content-Type:application/xml or application/json    |
| Response Data    | See Figure 11: availableFirmware                    |

**Table 372: POST *aml/system/software/availableFirmware***

**Product Support:** Scalar i3, Scalar i6

**Description:** Initiate a download of the latest library firmware from the Web. This operation will load a library firmware bundle on the library but will not install it.

| <b>URI</b>       | <b><i>aml/system/software/availableFirmware</i></b> |
|------------------|-----------------------------------------------------|
| Method           | <b>POST</b>                                         |
| User Role Access | Admin, Service                                      |
| Version          | 110(i3/i6)                                          |
| Parameters       | N/A                                                 |
| Request Header   | N/A                                                 |
| Request Data     | N/A                                                 |
| Response Codes   | 200, 403                                            |
| Response Header  | Content-Type:application/xml or application/json    |
| Response Data    | See Figure 192: WSResultCode                        |

**Table 373: GET *aml/users***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the user resource instances.

| <b>URI</b>       | <b><i>aml/users</i></b>                                               |
|------------------|-----------------------------------------------------------------------|
| Method           | <b>GET</b>                                                            |
| User Role Access | Admin, Service, User (If User then only show this user's information) |
| Version          | 700(i6k), 110(i3/i6)                                                  |
| Parameters       | N/A                                                                   |
| Request Header   | N/A                                                                   |
| Request Data     | N/A                                                                   |
| Response Codes   | 200                                                                   |
| Response Header  | Content-Type:application/xml or application/json                      |
| Response Data    | See Figure 185: userList                                              |

**Table 374: POST aml/users**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Create a new user resource instance. You must specify a name, password and role. The valid user roles are 0 (ADMIN) or 1 (USER). If you do not specify a role element, the role defaults to ADMIN.

The following user names are reserved and cannot be used to create a new user: service, admin, cvtl and security.

The name element only allows the following characters: "A-Za-z0-9 \_"

**Note:** When you create a new user, the name will be stored in all lower-case characters, because joe = Joe = JOE.

The password element accepts: all printable characters except back tick and tilde.

The minimum number of characters for password is 8 and the maximum number of characters for name or password is 64.

| <b>URI</b>       | <b>aml/users</b>                                 |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 186: user                             |
| Response Codes   | 200(i6k) 201(i3/i6), 403                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 186: user                             |

**Table 375: GET aml/users/ldap**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the LDAP configuration resource.

| <b>URI</b>       | <b>aml/users/ldap</b>                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                   |
| User Role Access | Admin, Service, User (If Service or User, the only information returned is whether LDAP is enabled/disabled) |
| Version          | 700(i6k), 110(i3/i6)                                                                                         |
| Parameters       | N/A                                                                                                          |
| Request Header   | N/A                                                                                                          |
| Request Data     | N/A                                                                                                          |
| Response Codes   | 200                                                                                                          |
| Response Header  | Content-Type:application/xml or application/json                                                             |
| Response Data    | See Figure 98: ldap                                                                                          |

**Table 376: PUT aml/users/ldap****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Configure the LDAP resource. Initially all elements of the ldap object must be completed except for the alternateServer which may be null. When LDAP is being disabled, only the enable element is required. After the LDAP configuration is saved on the library, the library will persist this data. When the user disables LDAP, the configuration is persisted but it is not used. If you change the state from disabled to enabled, you will still need to pass down all the required elements even though the library has this data persisted. The exception to this is the ldap.searchUserPassword element, which does not need to be included; if it is empty or null the persisted value will be used.

| URI              | aml/users/ldap                                      |
|------------------|-----------------------------------------------------|
| Method           | PUT                                                 |
| User Role Access | Admin, Service (i6k)<br>Admin (i3/i6)               |
| Version          | 700(i6k), 110(i3/i6)                                |
| Parameters       | N/A                                                 |
| Request Header   | Content-Type:application/xml or<br>application/json |
| Request Data     | See Figure 98: ldap                                 |
| Response Codes   | 200, 403                                            |
| Response Header  | Content-Type:application/xml or<br>application/json |
| Response Data    | See Figure 98: ldap                                 |

**Table 377: POST aml/users/ldap****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Upload LDAP certificate(s) to the library. These certificates are generally distributed public keys from the LDAP server. When uploading the file(s), the key is 'file' and the value is the 'file name'.

**Note:** This interface has been deprecated and is being replaced with, Table 379: POST aml/users/ldap/certificates

| URI              | aml/users/ldap                                      |
|------------------|-----------------------------------------------------|
| Method           | POST                                                |
| User Role Access | Admin, Service                                      |
| Version          | 700(i6k), 110(i3/i6)                                |
| Parameters       | N/A                                                 |
| Request Header   | Content-Type:multipart/form-data                    |
| Request Data     | LDAP Certificate file                               |
| Response Codes   | 200, 403                                            |
| Response Header  | Content-Type:application/xml or<br>application/json |
| Response Data    | See Figure 192: WSResultCode                        |

**Table 378: GET aml/users/ldap/certificates****Product Support:** Scalar i3, Scalar i6**Description:** Retrieve a list of LDAP certificates that were uploaded to the library. These certificates are generally distributed public keys from the LDAP server.

| <i>URI</i>       | <i>aml/users/ldap/certificates</i>               |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service                                   |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 18: communicationCertificateList      |

**Table 379: POST aml/users/ldap/certificates****Product Support:** Scalar i6k, Scalar i3, Scalar i6**Description:** Upload LDAP certificate(s) to the library. These certificates are generally distributed public keys from the LDAP server. When uploading the file(s), the key is 'file' and the value is the 'file name'.

| <i>URI</i>       | <i>aml/users/ldap/certificates</i>               |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 720(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:multipart/form-data                 |
| Request Data     | LDAP Certificate file                            |
| Response Codes   | 200, 403                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 380: POST aml/users/ldap/keytab****Product Support:** Scalar i3, Scalar i6**Description:** Upload the LDAP keytab file to the library.

The multipart form data key is 'file' and the value is the file to be uploaded.

| <i>URI</i>       | <i>aml/users/ldap/keytab</i> |
|------------------|------------------------------|
| Method           | <b>POST</b>                  |
| User Role Access | Admin, Service               |

| <i>URI</i>      | <i>aml/users/ldap/keytab</i>                     |
|-----------------|--------------------------------------------------|
| Version         | 110(i3/i6)                                       |
| Parameters      | N/A                                              |
| Request Header  | Content-Type multipart/formdata                  |
| Request Data    | N/A                                              |
| Response Codes  | 200                                              |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                     |

**Table 381: POST aml/users/ldap/test**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Test the LDAP user and configuration settings provided in the request. When testing LDAP configuration, you are not required to provide a user or password in the ldapTest object. If you want to verify the LDAP user name and password you are required to provide the user and password and the LDAP configuration settings, ldapTest.Ldap.

| <i>URI</i>       | <i>aml/users/ldap/test</i>                       |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 99: ldapTest                          |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 382: POST aml/users/login**

**Product Support:** Scalar i6k

**Description:** Login to the library. A successful login returns a session cookie that needs to be used for successive requests. If a service user is currently logged in a 503 status code is returned and the login request will be denied. There are three user types/roles supported, Service, Administrator and Regular/User. If a Service user logs in, all other user's will have their sessions terminated.

On the i6k, if the number of user logins has exceeded the limit, the customCode element of the WSResultCode will be set to 1 and a HTTP status of 503 will be returned.

**Note:** The Scalar i6k supports 5 concurrent administrator user logins and 25 regular user logins or a single service user login.

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>URI</b>       | <b><i>aml/users/login</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Method           | <b>POST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Version          | 700(i6k)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Parameters       | <p>The form parameters are name, password, ldap and forceLogin. The valid values for each parameter are as follows:</p> <ul style="list-style-type: none"> <li>• name = valid user name</li> <li>• password = the user password</li> <li>• ldap = “true” or “false”, true, if you want to use LDAP to authenticate</li> <li>• forceLogin = “true” or “false” (Not supported on I3/i6)</li> </ul> <p>The forceLogin parameter only applies to an admin user. This can be used when the number of admin logins has exceeded the maximum allowed. If used and the number of admin logins has exceeded the limit, then one of the current admin logins will be terminated. This parameter is not supported on I3/i6.</p> <p>On the i6k, If the number of user logins has exceeded the limit, the customCode element of the WSResultCode will be set to 1.</p> <p><b>Note:</b> This interface does NOT support query parameters, only form parameters.</p> |
| Request Header   | Content-Type: application/x-www-form-urlencoded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Request Data     | HTTP form data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Response Codes   | 200, 404, 503                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Response Header  | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Response Data    | See Figure 192: WSResultCode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Table 383: POST aml/users/login**

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Login to the library using the user XML or JSON object. A successful login returns a session cookie that needs to be used for successive requests. If a service user is currently logged in, a 503 status code is returned and the login request will be denied. There are three user types/roles supported, Service, Administrator and Regular/User. If a Service user logs in, all other user’s will have their sessions terminated.

On the i6k, If the number of user logins has exceeded the limit, the customCode element of the WSResultCode will be set to 1 and a HTTP status of 503 will be returned.

**Note:** The Scalar i6k supports 5 concurrent administrator user logins and 25 regular user logins, or a single service user login. The Scalar i3/i6 supports 25 concurrent administrator and regular user logins, but only just a single service user login.

| <b>URI</b>       | <b><i>aml/users/login</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>POST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Parameters       | <p>The query parameters forceLogin. The valid values for each parameter are as follows:</p> <ul style="list-style-type: none"> <li>forceLogin = "true" or "false" (Not supported on I3/i6)</li> </ul> <p>The forceLogin parameter only applies to an admin user. This can be used when the number of admin logins has exceeded the maximum allowed. If used and the number of admin logins has exceeded the limit, then one of the current admin logins will be terminated. This parameter is not supported on I3/i6.</p> <p>On the i6k, If the number of user logins has exceeded the limit, the customCode element of the WSResultCode will be set to 1.</p> |
| Request Header   | Content-Type:application/xml or application/json                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Request Data     | See Figure 186: user                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Response Codes   | 200, 404, 503                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Response Header  | <p>Content-Type:application/xml or application/json</p> <p>Warning: Default Password Supplied.</p> <p>This header will be returned if it is the first login for a new user or if an Admin has reset the user's password. This is not supported on the i6k.</p>                                                                                                                                                                                                                                                                                                                                                                                                 |
| Response Data    | See Figure 186: user                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Table 384: DELETE *aml/users/login***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Logout of the library web services.

| <b>URI</b>       | <b><i>aml/users/login</i></b> |
|------------------|-------------------------------|
| Method           | <b>DELETE</b>                 |
| User Role Access | Admin, Service, User          |
| Version          | 700(i6k), 110(i3/i6)          |
| Parameters       | N/A                           |
| Request Header   | N/A                           |
| Request Data     | N/A                           |

| <b>URI</b>      | <b><i>aml/users/login</i></b>                    |
|-----------------|--------------------------------------------------|
| Response Codes  | 200                                              |
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 192: WSResultCode                     |

**Table 385: GET *aml/users/luiAccess***

**Product Support:** Scalar i3, Scalar i6

**Description:** Retrieve the local UI access resource.

| <b>URI</b>       | <b><i>aml/users/luiAccess</i></b>                |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 115: LUIAccess                        |

**Table 386: PUT *aml/users/luiAccess***

**Product Support:** Scalar i3, Scalar i6

**Description:** Update the local UI access resource.

| <b>URI</b>       | <b><i>aml/users/luiAccess</i></b>                |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 115: LUIAccess                        |
| Response Codes   | 200                                              |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 115: LUIAccess                        |

**Table 387: GET aml/users/reports/login****Product Support:** Scalar i6k**Description:** Retrieve the list of user login activity records.

| URI              | <i>aml/users/reports/login</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| User Role Access | Admin, Service, User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Version          | 700(i6k), 110(i3/i6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Parameters       | <p>The following query parameters are supported, start, length, period, date, save with the following values:</p> <ul style="list-style-type: none"> <li>• start=0-n</li> <li>• length=1-n, anything else means all records.</li> <li>• period=the last number of days to include in the report. If you want to report for the last week, you would specify 7.</li> <li>• date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored..</li> <li>• save="name" where name is a file name to use to save the tape alert information to. The file format will be CSV. The data separator is a “!” (exclamation point character) not a comma “,”.</li> </ul> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file.<br/>A default “name” is provided if none is given.</p> <p>If no query parameters are used the request will return all the login activity data.</p> |
| Request Header   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Request Data     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Codes   | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Header  | <p>Content-Type: application/xml, application/json, text/plain, application/octet-stream</p> <p>On success and save= parameter is used</p> <p>Cookie: name= FileDownloadingProgressCookie, value=Done</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response Data    | See Figure 111: loginActivityList or octet-stream or text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Table 388: POST aml/users/reports/login/email****Product Support:** Scalar i6k**Description:** Email the list of user login activity records.

The information will be in an email attachment and the file format will be CSV. The data separator is a “!” (exclamation point character) not a comma “,”.

| URI              | <i>aml/users/reports/login/email</i>             |
|------------------|--------------------------------------------------|
| Method           | <b>POST</b>                                      |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | Content-Type:application/xml or application/json |
| Request Data     | See Figure 65: email                             |
| Response Codes   | 200, 403, 412                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 389: GET aml/users/sessions****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the user sessions (current logged in user's) resources. For a Service (i3/i6 only) or User role, only the current user's session is returned.

| URI              | <i>aml/users/sessions</i>                                                  |
|------------------|----------------------------------------------------------------------------|
| Method           | <b>GET</b>                                                                 |
| User Role Access | Admin, Service, User (If User return only this user's session information) |
| Version          | 700(i6k), 110(i3/i6)                                                       |
| Parameters       | N/A                                                                        |
| Request Header   | N/A                                                                        |
| Request Data     | N/A                                                                        |
| Response Codes   | 200                                                                        |
| Response Header  | Content-Type:application/xml or application/json                           |
| Response Data    | See Figure 187: userSessionList                                            |

**Table 390: DELETE aml/users/session/{id}****Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Log off the user with the id given by URI path template “id”. The user ids are reported in the userSession objects URI aml/users/sessions. Only users with Admin privileges (role 0) can log off other user's.

| <b>URI</b>       | <b><i>aml/users/session/{id}</i></b>                |
|------------------|-----------------------------------------------------|
| Method           | <b>DELETE</b>                                       |
| User Role Access | Admin, Service (i6k)<br>Admin (i3/i6)               |
| Version          | 700(i6k), 110(i3/i6)                                |
| Parameters       | N/A                                                 |
| Request Header   | N/A                                                 |
| Request Data     | N/A                                                 |
| Response Codes   | 200, 403, 404                                       |
| Response Header  | Content-Type:application/xml or<br>application/json |
| Response Data    | See Figure 192: WSResultCode                        |

**Table 391: GET *aml/users/luiAccess/mode***

**Product Support:** Scalar i3, Scalar i6

**Description:** Retrieve the I3/i6 local access mode. This interface does not require authentication (a user does not have to be logged in).

**Note:** This interface is only supported by i3/i6.

| <b>URI</b>       | <b><i>aml/users/luiAccess/mode</i></b>        |
|------------------|-----------------------------------------------|
| Method           | <b>GET</b>                                    |
| User Role Access | Admin, Service, User                          |
| Version          | 110(i3/i6)                                    |
| Parameters       | N/A                                           |
| Request Header   | N/A                                           |
| Request Data     | N/A                                           |
| Response Codes   | 200                                           |
| Response Header  | Content-Type:text/plain or application/json   |
| Response Data    | 1(Open), 2(Login Required) or 3(PIN required) |

**Table 392: GET *aml/user***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the user resource instance based on the cookie header parameter for the current user.

| <b>URI</b>       | <b><i>aml/user</i></b>                                        |
|------------------|---------------------------------------------------------------|
| Method           | <b>GET</b>                                                    |
| User Role Access | Admin, Service, User (If User return on the User information) |
| Version          | 700(i6k), 110(i3/i6)                                          |
| Parameters       | N/A                                                           |
| Request Header   | N/A                                                           |
| Request Data     | N/A                                                           |
| Response Codes   | 200                                                           |

| URI             | <i>aml/user</i>                                  |
|-----------------|--------------------------------------------------|
| Response Header | Content-Type:application/xml or application/json |
| Response Data   | See Figure 186: user                             |

**Table 393: GET *aml/user/{name}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Retrieve the user resource instance whose name is given by the URI path template “name”.

| URI              | <i>aml/user/{name}</i>                           |
|------------------|--------------------------------------------------|
| Method           | <b>GET</b>                                       |
| User Role Access | Admin, Service, User                             |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 404                                         |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 186: user                             |

**Table 394: PUT *aml/user/{name}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Update a user resource instance whose name is given by the URI path template “name”.

The name element only allows the following characters: “A-Za-z0-9 \_”

If changing the password element, the valid characters are all printable characters except back tick and tilde.

The minimum number of characters for password is 8 and the maximum number of characters for name or password is 64.

A standard/regular (role = 1) user can only modify the password. In this case, you will need to set the role element of the user object to -1 so it will be ignored.

When an ADMIN user (role = 0) is modifying a standard user, they must always specify the role element, because if you don't the role element will default to 0 which means that the standard user will now have ADMIN privileges.

Also, you must always specify the partition access list because if you don't, that user will not have access to partitions.

The password element can be null which will indicate that no password change is to be made.

| <b>URI</b>       | <b><i>aml/user/{name}</i></b>                                                       |
|------------------|-------------------------------------------------------------------------------------|
| Method           | <b>PUT</b>                                                                          |
| User Role Access | Admin, Service, User (If User, then only allow the user to change his/her password) |
| Version          | 700(i6k), 110(i3/i6)                                                                |
| Parameters       | N/A                                                                                 |
| Request Header   | Content-Type:application/xml or application/json                                    |
| Request Data     | See Figure 186: user                                                                |
| Response Codes   | 200, 403, 404                                                                       |
| Response Header  | Content-Type:application/xml or application/json                                    |
| Response Data    | See Figure 186: user (Scalar i3/i6)<br>See Figure 192: WSResultCode (Scalar i6k)    |

**Table 395: DELETE *aml/user/{name}***

**Product Support:** Scalar i6k, Scalar i3, Scalar i6

**Description:** Delete the user resource instance whose username is represented by the URI path template “name”.

| <b>URI</b>       | <b><i>aml/user/{name}</i></b>                    |
|------------------|--------------------------------------------------|
| Method           | <b>DELETE</b>                                    |
| User Role Access | Admin, Service                                   |
| Version          | 700(i6k), 110(i3/i6)                             |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

**Table 396: PUT *aml/user/admin/reset***

**Product Support:** Scalar i3, Scalar i6

**Description:** Reset the default admin’s password to “password”.

| <b>URI</b>       | <b><i>aml/user/admin/reset</i></b>               |
|------------------|--------------------------------------------------|
| Method           | <b>PUT</b>                                       |
| User Role Access | Service                                          |
| Version          | 110(i3/i6)                                       |
| Parameters       | N/A                                              |
| Request Header   | N/A                                              |
| Request Data     | N/A                                              |
| Response Codes   | 200, 403, 404                                    |
| Response Header  | Content-Type:application/xml or application/json |
| Response Data    | See Figure 192: WSResultCode                     |

## 6. Appendix

### 6.1 Resource Objects

The following figures list the supported resource objects (XML representation) available by the Web Services interfaces.

#### Figure 1: accessDeviceList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessDeviceList xmlns:ns2="http://automatedMediaLibrary/">
  <accessDevice/> <!-- List of accessDevice objects, see Figure 2: accessDevice -->
</ns2:accessDeviceList>
```

#### Figure 2: accessDevice

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessDevice xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396025</serialNumber><!-- drive or partition serial number -->
  <type>1</type> <!-- 1 (drive) 2 (Partition) -->
  <port>
    <id>1</id>
    <access>true</access>
  </port>
  <port>
    <id>2</id>
    <access>false</access>
  </port>
</ns2:accessDevice>
```

#### Figure 3: accessGroupList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessGroupList xmlns:ns2="http://automatedMediaLibrary/">
  <accessGroup/> <!-- List of accessGroup objects, see Figure 4: accessGroup -->
</ns2:accessGroupList>
```

#### Figure 4: accessGroup

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessGroup xmlns:ns2="http://automatedMediaLibrary/">
  <name>AG2</name>
  <hostList/> <!-- See Figure 91: hostList -->
  <accessDeviceList/> <!-- See Figure 1: accessDeviceList -->
</accessGroup>
```

#### Figure 5: activeVaultPolicyList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:activeVaultPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <activeVaultPolicy/> <!-- A list of activeVaultPolicy objects, see Figure 6: activeVaultPolicy -->
</ns2:activeVaultPolicyList>
```

## Figure 6: activeVaultPolicy

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:activeVaultPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL1</partitionName>
  <!-- The partition will have either a vaultDefinedExport policy or a externalDefinedExport policy -->
  <vaultDefinedExport> <!-- Redirect exports to specific Active Vault -->
    <activeVaultName>AV Partition</activeVaultName>
    <mediaFilter>*00LTO5</mediaFilter>
  </vaultDefinedExport>
  <externalDefinedExport> <!-- Redirect exports to external application (StorNext) defined Active Vault -->
    <externalApplicationServersName>The external application server configuration
name</externalApplicationServersName> <!-- See Figure 77: externalApplicationServers -->
  </externalDefinedExport>
</activeVaultPolicy>
</ns2:activeVaultPolicyList>
```

## Figure 7: autoExportPolicyList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoExportPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <autoExportPolicy/> <!-- A list of autoExportPolicy objects -->
</ns2:autoExportPolicyList>
```

## Figure 8: autoExportPolicy

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoExportPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL2</partitionName> <!-- The partition you want to apply the policy too -->
  <destinationAmpPartitionName>AMP</destinationAmpPartitionName> <!-- The AMP partition the
media will be moved too -->
</ns2:autoExportPolicy>
```

## Figure 9: autoImportPolicyList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoImportPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <autoImportPolicy/> <!-- A list of autoImportPolicy objects -->
</ns2:autoImportPolicyList>
```

## Figure 10: autoImportPolicy

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoImportPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>The name of the partition to apply the policy too</partitionName>
  <mediaBarcodeFilter>0000500-0000700</mediaBarcodeFilter> <!-- The media barcode filter range, the
following regex applies "([a-zA-Z0-9]{5,15}-[a-zA-Z0-9]{5,15};?\s*)" -->
</ns2:autoImportPolicy>
```

## Figure 11: availableFirmware

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:availableFirmware xmlns:ns2="http://automatedMediaLibrary/">
  <firmwareVersion>The latest library firmware version</firmwareVersion>
  <isUpdated>true</isUpdated> <!-- Indicates, if this version is newer that what is currently installed on
the library -->
</ns2:availableFirmware>
```

## Figure 12: blade

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:blade xmlns:ns2="http://automatedMediaLibrary/">
  <coordinate/> <!-- See
Figure 23: coordinate -->
  <name>name</name>
  <type>1</type>
<!--
1(FC IO Blade),
2(EEB),
3(MCB),
4(LTFS Blade)
5(Windows Blade)
-->
  <firmwareVersion>firmwareVersion</firmwareVersion>
  <serialNumber>serialNumber</serialNumber>
</ns2:blade>
```

## Figure 13: bladeFirmwareList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:bladeFirmwareList xmlns:ns2="http://automatedMediaLibrary/">
  <bladeFirmware/> <!-- A list of bladeFirmware objects. -->
</ns2:bladeFirmwareList>
```

## Figure 14: bladeFirmware

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:bladeFirmware xmlns:ns2="http://automatedMediaLibrary/">
  <type>4</type>
<!--
4(LTFS Blade)
5(Windows Blade)
-->
  <version>firmwareVersion</version>
</ns2:bladeFirmware>
```

## Figure 15: cleanDriveTask

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:cleanDriveTask xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>The drives physical or logical serial number</serialNumber>
  <coordinate>The coordinate of the media to use for cleaning</coordinate> <!-- see
Figure 23: coordinate -->
</ns2:cleanDriveTask>
```

## Figure 16: cleaningMediaList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:cleaningMediaList xmlns:ns2="http://automatedMediaLibrary/">
  <cleaningMedia/> <!-- A list of cleaningMedia objects -->
</ns2:cleaningMediaList>
```

## Figure 17: cleaningMedia

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:cleaningMedia xmlns:ns2="http://automatedMediaLibrary/">
  <media/> <!--see Figure 119: media -->
  <useCount>The number of times the media was used to clean a drive</useCount>
  <state>1</state> <!-- 0(Unknown), 1(Valid), 2(Invalid), 3(Expired) -->
</ns2:cleaningMedia>
```

## Figure 18: communicationCertificateList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:communicationCertificateList xmlns:ns2="http://automatedMediaLibrary/">
  <communicationCertificate/> <!-- A list of communicationCertificate objects -->
</ns2:communicationCertificateList>
```

## Figure 19: communicationCertificate

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:communicationCertificate xmlns:ns2="http://automatedMediaLibrary/">
  <keySize>2048</keySize> <!-- 1024, 2048 Or 4096 -->
  <digestAlgorithm>0</digestAlgorithm>
  <!--
0(Unknown),
1(MD5),
2(SHA1),
3(SHA224),
4(SHA256),
5(SHA384),
6(SHA512),
7(MDC2),
8(RIPEMD160)
-->
  <issuer/> <!-- certificateInformation object -->
  <subject/> <!-- certificateInformation object -->
  <type>Root</type> <!-- types are Root, Admin, Client, Identity or Unknown -->
  <validNotBefore>Apr 19 13:51:18 2011 GMT</validNotBefore>
  <validNotAfter>Apr 17 13:51:18 2021 GMT</validNotAfter>
</ns2:communicationCertificate>
```

## Figure 20: componentList (ENUM)

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<componentList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="component name"> <!-- A list of one or more components -->
    <element name="component element name">
      <entry key="1" value="Connectivity"/> <!-- A list of one or more entry elements, which are key,
value pairs -->
    </element>
  </component>
</componentList>
```

## Figure 21: certificateInformation

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:certificateInformation xmlns:ns2="http://automatedMediaLibrary/">
  <countryCode>US</countryCode>
  <state>Colorado</state>
  <locality>Denver</locality>
  <organization>DVT</organization>
  <organizationalUnit>DVT</organizationalUnit>
  <commonName>Your Company Name</commonName>
  <emailAddress>E-mail address</emailAddress>
</ns2:certificateInformation >
```

## Figure 22: contactInformation

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:contactInformation xmlns:ns2="http://automatedMediaLibrary/">
  <!-- each element can have a maximum of 256 characters -->
  <name>The contacts full name or first name if the lastName element is used</name>
  <lastName>The surname or last name of the contact</lastName> <!-- This field was added so the
above element "name" could be used as a first name of the contact and this element could be used as a
last name of the contact. If this element is empty or null, the library assumes the name element contains
the full name of the contact -->
  <company>Company name</company>
  <phone>Contact phone number</phone>
  <email>Contact e-mail address</email>
  <description>A description of the library.</description>
  <address1>Unit 15</address1>
  <address2>1600 Pen Avenue</address2>
  <city>Sydney</city>
  <stateOrProvince>New South Wales</stateOrProvince>
  <zipCode>The city zip code</zipCode>
  <country>Australia</country>
</ns2:contactInformation>
```

## Figure 23: coordinate

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:coordinate xmlns:ns2="http://automatedMediaLibrary/">
  <frame>1</frame>
  <!--
I3/i6 – Always 1
I6k – 0 through number of frames/modules
-->
  <rack>1</rack>
  <!--
I3/i6.- Always 1
i6k, 1 back side, 2 door side
-->
  <section>2</section>
  <!--
I3/i6 - vertical location within the library module stack, with control module referencing section 0, and any
3U increments above or below CM section 0 being identified by positive, or negative integer respectively
I6k – A row of magazines or drives in a rack, rack 1 (1 – 10 storage) (1 – 12 drives), .
  <column>1</column>
  <!--
I3/i6 - magazine/bay column location, 1 to 5 in left magazine, 6 to 10 for right side magazine, and 11 for
rear drive bay column
I6k – A column of magazines or drives in a rack. (1 – 10)
-->
  <row>1</row>
  <!--
I3/i6 - magazine slot, or drive location within column, bay, counting bottom up
I6k – Magazine slots or drive location
-->
  <type>2</type> <!-- 0(N/A), 1(Robot), 2(Storage), 3(IE), 4(Drive), 5(XIE), 6(Cleaning) -->
</ns2:coordinate>
```

## Figure 24: crossPartitionMovesList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:crossPartitionMovesList xmlns:ns2="http://automatedMediaLibrary/">
  <crossPartitionMoves/> <!-- A list of crossPartitionMoves objects -->
</ns2:crossPartitionMovesList>
```

**Figure 25: crossPartitionMoves**

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:crossPartitionMoves xmlns:ns2="http://automatedMediaLibrary/">
  <barcode>barcode</barcode>
  <sourcePartition>sourcePartition</sourcePartition>
  <sourcePartitionType>Standard</sourcePartitionType>
<!--
"Unknown",
"Standard",
"EDLM",
"AMP",
"Active Vault"
-->
  <sourceElementAddress>250</sourceElementAddress>
  <destinationPartition>destinationPartition</destinationPartition>
  <destinationPartitionType>destinationPartition</destinationPartitionType>
<!--
"Unknown",
"Standard",
"EDLM",
"AMP",
"Active Vault"
-->
  <destinationElementAddress>4096</destinationElementAddress>
  <dateTime>2001-12-31 12:00:00</dateTime>
</ns2:crossPartitionMoves>
```

**Figure 26: dateTime**

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:dateTime xmlns:ns2="http://automatedMediaLibrary/">
  <date>2012-08-14</date>
  <time>21:34:02</time>
  <datetime>2012-08-14 21:34:02 -0600</datetime>
  <timezone>America/Denver</timezone>
  <itime>1345001642141</itime> <!-- time in seconds since EPOCH -->
</ns2:dateTime>
```

**Figure 27: detailedDriveActivityStatistics**

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:detailedDriveActivityStatistics xmlns:ns2="http://automatedMediaLibrary/">
  <drive> <!-- One of these for each drive installed in the library -->
    <physicalSerialNumber>1210007896</physicalSerialNumber>
    <logicalSerialNumber>F001397049</logicalSerialNumber>
    <partition>LL1</partition> <!-- NULL if the drive does not belong to a partition -->
    <driveActivityStatisticsList>
      <driveActivityStatistics/> <!-- 24 of these, see Figure 31: driveActivityStatistics -->
    </driveActivityStatisticsList>
  </drive>
</ns2:detailedDriveActivityStatistics>
```

## Figure 28: DNS

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:DNS xmlns:ns2="http://automatedMediaLibrary/">
  <ipAddress>10.20.88.2</ipAddress>
  <ipAddress>192.168.23.5</ipAddress>
</ns2:DNS>
```

## Figure 29: driveList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive/> <!-- A list of drive objects, see Figure 30: drive -->
</ns2:driveList>
```

## Figure 30: drive

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:drive xmlns:ns2="http://automatedMediaLibrary/">
  <physicalSerialNumber>physicalSerialNumber</physicalSerialNumber>
  <logicalSerialNumber>logicalSerialNumber</logicalSerialNumber>
  <address>address</address><!-- WWPN -->
  <coordinate /> See
Figure 23: coordinate
  <elementAddress>256</elementAddress> <!-- Logical element address -->
  <firmwareVersion>firmwareVersion</firmwareVersion>
  <type>
    <domainType>3</domainType>
<!--
0(Unknown),
3(LTO2),
4(LTO3),
5(LTO4),
6(LTO5),
7(LTO6),
8(LTO7),
9(LTO8),
554(Mixed Types)
-->
    <vendor>IBM or HP</vendor>
    <productId>Ultrium 6-SCSI</productId>
    <sledType>1</sledType>
<!--
0(Unknown),
1(Standard),
2(EDLM)
-->
    <interface>1</interface>
<!--
0(Unknown),
1(SCSI),
2(Fibre),
3(SAS)
-->
    <formFactor>FH or HH</formFactor>
```

```

</type>
<mode>0</mode> <!-- 1(Online), 2(Offline) -->
<state>1</state>
<!--
1(Varied On),
2(Varied Off),
3(Pending Status Change)
-->
<status>0</status>
<!--
0(Unknown),
1(Good),
2(Failed),
3(Degraded),
4(Not Installed),
5(Initializing),
6(Not Ready)
-->
<owner>Owning partition or NULL</owner>
<settings>
  <controlPath>
    <primary>true</primary>
    <type>1</type>
  <!--
  1(None),
  2(Standard/CP),
  3(Basic/CPF),
  4(Advanced/ACPF),
  5(Multi Control Path),
  6(Advanced Control Path IBM)
  -->
  <subType>1</subType>
  <!--
  1(None),
  2(Active),
  3(Standby)
  -->
  </controlPath>
  <dataPath>1</dataPath>
  <!--
  1(None), No data path failover configured.
  2(Standard), Basic failover configured, (uses NPIV). Only applies to HP LTO drives
  3(Advanced), This failover requires a driver (IBM or HP) depending on the drives configured.
  4(MultiPath) i3/i6 only, i6k enables both ports for multi-path by default if drive is SNW licensed
  -->
  <encryption>
    <method>0</method>
  <!--
  0(None),
  1(AME), Application-managed
  2(LME), Application-managed
  4(SME) Application-managed
  -->
  <fips>true</fips>
</encryption>
<ipAddress>10.10.3.50</ipAddress>

```

<bladeCoordinate/> <!-- See  
Figure 23: coordinate -->

```
<bladeAttachedType>0</bladeAttachedType>
<!--
0(None),
1(FC IO Blade),
2(EEB),
4(NAS/LTFS Blade) <!-- i3/i6 only -->
5(Windows Blade) <!-- i3/i6 only -->
-->
<license>7</license>
<!--
7(EKM),
11(SNW – i6K Path Failover/native Storage Networking)
15(Path Failover - i3/i6)
16(Advance Path Failover - i3/i6)
17(SKM - i3/i6)
-->
</settings>
<barcode>media barcode if drive is loaded</barcode>
<mediaHomeCoordinate>The slot's SCSI source/home coordinate </ mediaHomeCoordinate> <!-- If no
media is loaded in the drive this field will be null -->
<sledSerialNumber>sledSerialNumber</sledSerialNumber>
<sledBootFirmwareVersion>sledBootFirmwareVersion</sledBootFirmwareVersion>
<sledAppFirmwareVersion>sledAppFirmwareVersion</sledAppFirmwareVersion>
<portCount>0</portCount>
</ns2:drive>
```

## Figure 31: driveActivityStatistics

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveActivityStatisticsList xmlns:ns2="http://automatedMediaLibrary/">
  <driveActivityStatistics>
    <hourOfDay>16</hourOfDay> <!-- 23 hours ago -->
    <mbRead>0</mbRead>
    <mbWritten>5677</mbWritten>
    <mountCount>2</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>17</hourOfDay> <!-- 22 hours ago -->
    <mbRead>0</mbRead>
    <mbWritten>22000</mbWritten>
    <mountCount>4</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>18</hourOfDay> <!-- 21 hours ago -->
    <mbRead>44567</mbRead>
    <mbWritten>0</mbWritten>
    <mountCount>4</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>19</hourOfDay>
    <mbRead>0</mbRead>
    <mbWritten>0</mbWritten>
  </driveActivityStatistics>

```

```

    <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>20</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>21</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>562209</mbWritten>
  <mountCount>5</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>22</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>3399</mbWritten>
  <mountCount>3</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>23</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>0</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>1</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>2</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>3</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>4</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>

```

```

<driveActivityStatistics>
  <hourOfDay>5</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>6</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>7</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>8</hourOfDay>
  <mbRead>344</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>2</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>9</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>10</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>11</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>12</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>13</hourOfDay> <!-- 2 hours ago -->
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>14</hourOfDay> <!-- 1 hour ago -->

```

```

    <mbRead>0</mbRead>
    <mbWritten>0</mbWritten>
    <mountCount>0</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>15</hourOfDay> <!-- Current hour of day -->
    <mbRead>23344</mbRead>
    <mbWritten>0</mbWritten>
    <mountCount>4</mountCount>
  </driveActivityStatistics>
</ns2:driveActivityStatisticsList>

```

**Figure 32: driveCleaningList**

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:driveCleaningList xmlns:ns2="http://automatedMediaLibrary/">
  <driveCleaning/> <!-- A list of driveCleaning objects -->
</ns2:driveCleaningList>

```

**Figure 33: driveCleaning**

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:driveCleaning xmlns:ns2="http://automatedMediaLibrary/">
  <dateTime>2001-12-31T12:00:00</dateTime>
  <barcode>barcode</barcode>
  <mediaCoordinate /> <!-- The coordinate where the media came from -->
  <driveSerialNumber>driveSerialNumber</driveSerialNumber>
  <driveCoordinate /> <!-- The coordinate of the drive that was cleaned -->
  <status>status</status> <!-- Result of the cleaning operation -->
  <cleaningType>cleaningType</cleaningType> <!-- Manual or Automatic -->
  <expired>true</expired> <!-- Is the cleaning media expired -->
  <useCount>0</useCount> <!-- How many times this media was used to clean a drive -->
</ns2:driveCleaning>

```

**Figure 34: driveCleaningPolicyList**

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:driveCleaningPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <driveCleaningPolicy/> <!-- A list of driveCleaningPolicy objects -->
</ns2:driveCleaningPolicyList>

```

**Figure 35: driveCleaningPolicy**

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:driveCleaningPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <!-- The partition the policy applies too. -->
  <partition>partition name</partition>
  <!-- Determines whether the drives in the partition are being automatically cleaned by the library -->
  <enabled>true</enabled>
  <!-- The following indicates if cleaning is managed by the host application. If true, then suppress drive
  cleaning request RAS tickets. This is currently not supported on the i6k.
  -->
  <hostApplicationInitiated>>false</hostApplicationInitiated>
  <!-- Drive configured periodic cleaning interval setting -->
  <driveCleaning>

```

```

    <!-- The following option is only available for HP drives, to specify motion hours to elapse before
    requesting periodic cleaning
    -->
    <motionTime>100</motionTime> <!-- 0, 100, 200, 400, 800 or 1000 -->
    <!-- The following option is only available for EDLM drives in an EDLM partition -->
    <mountCount>0</mountCount> <!-- 0, 10 or 25 -->
</driveCleaning>
<!-- Library configured periodic cleaning interval setting
    This feature is currently not supported. -->
<libraryCleaning>
    <hour>0</hour>
    <dayOfWeek>0</dayOfWeek>
    <period>1</period>
</libraryCleaning>
</ns2:driveCleaningPolicy>

```

### Figure 36: driveLevelingPolicy

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLevelingPolicy xmlns:ns2="http://automatedMediaLibrary/">
    <partition>LL1</partition>
    <type>2</type>
    <firmwareFile/> <!-- A list of firmwareFile objects, see Figure 85: firmwareFile -->
</ns2:driveLevelingPolicy>

```

### Figure 37: driveLogList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLogList xmlns:ns2=http://automatedMediaLibrary/>
    <driveLog/> <!-- A list of driveLog objects -->
</ns2:driveLogList>

```

### Figure 38: driveLog

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLog xmlns:ns2=http://automatedMediaLibrary/>
    <name>The log file name</name>
    <driveSerialNumber>1013000947</driveSerialNumber> <!-- The physical serial number of the drive or
    'N/A' if unknown. -->
    <created>The date and time the log file was created</created>
    <size>The log file size, in bytes</size>
</ns2:driveLog>

```

### Figure 39: drivePortList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:drivePortList xmlns:ns2=http://automatedMediaLibrary/>
    <drivePorts/> <!-- A list of drivePorts objects, see Figure 40: drivePorts -->
</ns2:drivePortList>

```

### Figure 40: drivePorts

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:drivePorts xmlns:ns2="http://automatedMediaLibrary/">
    <serialNumber>serialNumber</serialNumber> <!-- The drives logical serial number -->

```

```

    <physicalSerialNumber>serial number</physicalSerialNumber> <!-- The drive's physical serial number -
->
    <ports/> <!-- A list of port objects, see Figure 149: port -->
</ns2:drivePorts>

```

### Figure 41: driveSerialNumberList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveSerialNumberList xmlns:ns2="http://automatedMediaLibrary/">
    <serialNumber>F00139603D</serialNumber> <!-- one or more serialNumber elements -->
</ns2:driveSerialNumberList>

```

### Figure 42: driveUtilizationList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveUtilizationList xmlns:ns2="http://automatedMediaLibrary/">
    <driveUtilization/> <!-- A list of driveUtilization objects -->
</ns2:driveUtilizationList>

```

### Figure 43: driveUtilization

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:driveUtilization xmlns:ns2="http://automatedMediaLibrary/">
    <coordinate>
        <frame>1</frame>
        <rack>0</rack>
        <section>0</section>
        <column>0</column>
        <row>0</row>
        <type>4</type>
    </coordinate>
    <driveSerialNumber>the drive's physical serial number</driveSerialNumber>
    <partition>partition name</partition>
    <mountTime>2001-12-31 12:00:00</mountTime>
    <unmountTime>2001-12-31 12:02:00</unmountTime>
    <mbRead>0</mbRead>
    <mbWrite>0</mbWrite>
    <barcode>barcode</barcode>
</ns2:driveUtilization>

```

### Figure 44: edlmMediaList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmMediaList xmlns:ns2="http://automatedMediaLibrary/">
    <edlmMedia/> <!-- A list of edlmMedia objects -->
    <continueOnError /> <!-- Continue testing media despite media having failed already. -->
</ns2:edlmMediaList>

```

### Figure 45: edlmMedia

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmMedia xmlns:ns2="http://automatedMediaLibrary/">
    <barcode>ABC123000L6</barcode>
    <resultId>19</resultId> <!-- The id of the edlmMediaResult object -->
    <coordinate>

```

```

    <frame>1</frame>
    <rack>0</rack>
    <section>0</section>
    <column>0</column>
    <row>0</row>
    <type>1</type>
  </coordinate>
  <owner>owner</owner> <!-- Partition owning this media -->
  <testType>0</testType>
<!--
0(None),
1(Quick Scan),
2(Normal Scan),
3(Full Scan)
-->
  <testPriority>0</testPriority>
<!--
0(Immediate),
1(High),
2(Medium),
3(Low)
-->
  <testState>1</testState>
<!--
0(Unknown),
1(Pending),
2(In Progress),
3(Complete),
4(Stopped),
5(Paused),
6(Resume)
-->
  <testResult>3</testResult>
<!--
0(Not Complete),
1(Good),
2(Unsupported),
3(Suspect),
4(Failed)
-->
  <lastTested>2001-12-31T12:00:00</lastTested> <!-- When was media last tested -->
  <supported>true</supported>
<!-- Is media supported for EDLM Scan Test with the EDLM drives configured for testing. -->
</ns2:edlmMedia>

```

### Figure 46: edlmMediaResultList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:edlmMediaResultList xmlns:ns2="http://automatedMediaLibrary/">
  <edlmMediaResult/> <!-- A list of edlmMediaResult objects -->
</ns2:edlmMediaResultList>

```

### Figure 47: edlmMediaResult

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmMediaResult xmlns:ns2="http://automatedMediaLibrary/">

```

```

<id>0</id>
<sessionId>0</sessionId>
<barcode>barcode</barcode>
<driveSerialNumber>driveSerialNumber</driveSerialNumber>
<partition>LL1</partition> <!-- The partition that owns the media, if known. Otherwise 'N/A'. -->
<mediaSerialNumber>1070748083</mediaSerialNumber>
<testDate>2001-12-31 12:00:00</testDate>
<startDate>2001-12-31 11:48:05</startDate>
<testState>0</testState>
<!--
0(Unknown) (i6k Only),
1(Pending),
2(In Progress),
3(Complete),
4(Stopped),
5(Paused),
6(Resume) (i6k Only)
-->
  <testType>0</testType>
  <!--
0(None),
1(Quick Scan),
2(Normal Scan),
3(Full Scan)
-->
    <testResult>0</status>
  <!--
0(Not Complete) (i6k Only),
1(Good),
2(Unsupported),
3(Suspect),
4(Failed)
-->
    <staticTestStatus>0</staticTestStatus>
  <!--
512(Test Completed),
513(Test Paused),
514(Test Pending),
515(Test Not Run),
516(Test In Progress)
1030(Stopped) (i3/i6 Only)
-->
    <dynamicTestStatus>0</dynamicTestStatus>
  <!--
1024(Test Completed),
1025(Test Paused),
1026(Test Pending),
1027(Test Not Run),
1028(Test In Progress),
1029(Test Not Configured),
1030(Test Stopped) (i3/i6 Only)
-->
    <staticTestErrorCode>0</staticTestErrorCode>
  <!--
768(Good),
769(N/A),

```

```

770(Failed to get CM data),
771(CM Hardware Failure),
772(99% EOL based on thread count),
773(99% EOL based on number of writes),
774(Uncorrected errors),
775(Load failure),
776(Unload failure),
777(Tape was removed),
778(No compatible drive found),
779(Invalid EOD status)
-->
<dynamicTestErrorCode>0</dynamicTestErrorCode>
<!--
1280(Good),
1281(N/A),
1282(Failed to communicate to IO Blade),
1283Failed to receive scan data),
1284(Unexpected EOD, Possible corrupt CM),
1285(Unformatted tape),
1286(Failed to read tape data),
1287(Un-recovered read errors on tape),
1289(Corrupt data format),
1296(Tape experienced a mechanical error),
1297(Tape performance is severely degraded),
1298(Unable to load tape),
1299(Unable to unload tape),
1300(Tape is a cleaning cartridge),
1301(Cartridge memory fault encountered),
1302(Unknown media type detected),
1303(Scan was aborted),
1304(Drive reports no media present),
1305(Media is encrypted),
1312(Media is blank),
1313(Block size exceeds maximum),
1314(Media is a FUP tape),
1315(Failed to read the CM from the drive),
1316(Drive failure encountered while scanning the media),
1317(Drive communication failure) (i3/i6 Only),
1318(Test stopped) (i3/i6 Only),
1319(Uninitialized tape) (i3/i6 Only)
-->
</ns2:edlmResult>

```

## Figure 48: edlmMediaScanTestList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmMediaScanTestList xmlns:ns2="http://automatedMediaLibrary/">
  <edlmMediaScanTest/> A list of edlmMediaScanTest objects
</ns2:edlmMediaScanTestList>

```

## Figure 49: edlmMediaScanTest

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:edlmMediaScanTest xmlns:ns2="http://automatedMediaLibrary/">
  <testDate>2016-05-25 09:53:15 -0600</testDate>
  <barcode>000340L4</barcode>

```

```

    <mediaSerialNumber>N/A</mediaSerialNumber>
    <partition>N/A</partition>
    <driveSerialNumber>GB120401FD</driveSerialNumber>
    <scanType>Quick</scanType>
    <result>Untested</result>
    <cmScanStatus>N/A</cmScanStatus>
    <cmScanAnalysis>N/A</cmScanAnalysis>
    <tapeScanStatus>Not Configured</tapeScanStatus>
    <tapeScanAnalysis>N/A</tapeScanAnalysis>
</ns2:edlmMediaScanTest>

```

## Figure 50: edlmPolicyList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <edlmPolicy/> A list of edlmPolicy objects
</ns2:edlmPolicyList>

```

## Figure 51: edlmPolicy

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>partitionName</partitionName>
  <tapeAlert>
    <scanType>0</scanType> <!-- 0(None), 1(Quick), 2(Normal) and 3(Full) -->
    <count>0</count> <!-- The threshold count on when to do the scan -->
  </tapeAlert>
  <timeInterval> <!-- The interval is in days -->
    <quickScan>0</quickScan>
    <normalScan>0</normalScan>
    <fullScan>0</fullScan>
  </timeInterval>
  <onImport>0</onImport> <!--Perform scan when media is imported 0(No Scan), 1(Quick), 2(Normal)
and 3(Full) -->
  <scanPriority>0</scanPriority> <!-- 0(Immediate), 1(Low), 2(Medium), 3(High) -->
  <concurrentScans>0</concurrentScans> <!-- The maximum number of concurrent scans allowed
(depends on the number of EDLM drives configured), 0 for No Limit and then 1 through N where N is the
number of EDLM drives installed -->
  <continueOnError>true</continueOnError>
  <disableRasTicketGeneration>true</disableRasTicketGeneration>
  <externalPolicies>
    <externalApplicationServersName>The StorNext server name</externalApplicationServersName>
    <mediaCopyPolicy>0</mediaCopyPolicy> <!-- 0(Disabled), 1(Bad Media), 2(Suspect Media), 3(Bad or
Suspect Media) -->
    <suspectCountScanType>0</suspectCountScanType> <!-- 0(None), 1(Quick), 2(Normal), 3(Full) -->
  </externalPolicies>
  <relations/>
</ns2:edlmPolicy>

```

## Figure 52: edlmSessionList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmSessionList xmlns:ns2="http://automatedMediaLibrary/">
  </edlmSession> <!-- A list of edlmSession objects -->
</ns2:edlmSessionList>

```

### Figure 53: edlmSession

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmSession xmlns:ns2="http://automatedMediaLibrary/">
  <id>0</id>
  <startDate>2001-12-31 12:00:00</startDate>
  <endDate>2001-12-31 12:00:00</endDate>
  <state>0</state> <!-- 0(Unknown), 1(Complete), 2(Pending), 4(Paused), 8(In Progress), 16(Stopped) -->
  <goodCount>0</goodCount> <!-- The number of scans in the session that completed with good status -
-->
  <suspectCount>0</suspectCount> <!-- The number of scans in the session that completed with suspect
status -->
  <badCount>0</badCount> <!-- The number of scans in the session that completed with bad status -->
  <notCompleteCount>0</notCompleteCount> <!-- The number of scans in the session that did not
complete -->
  <unSupportedCount>0</unSupportedCount> <!-- The number of scans in the session that were not
supported -->
  <continueOnError>true</continueOnError> <!-- Was the continue on error flag set for this session -->
  <estimatedCompletionTime>34</estimatedCompletionTime> <!-- The estimated time in minutes it will
take to complete the session scan tests -->
</ns2:edlmSession>
```

### Figure 54: ekmMediaStatusList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmMediaStatusList xmlns:ns2="http://automatedMediaLibrary/">
  < ekmMediaStatus/> A list of ekmMediaStatus objects
</ns2:ekmMediaStatusList>
```

### Figure 55: ekmMediaStatus

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmMediaStatus xmlns:ns2="http://automatedMediaLibrary/">
  <driveSerialNumber>driveSerialNumber</driveSerialNumber>
  <barcode>barcode</barcode>
  <mediaSerialNumber>mediaSerialNumber</mediaSerialNumber>
  <partitionName>partitionName</partitionName>
  <encrypted>true</encrypted>
  <mountTime>2001-12-31T12:00:00</mountTime>
  <unmountTime>2001-12-31T12:00:00</unmountTime>
</ns2:ekmMediaStatus>
```

### Figure 56: ekmPartitionActivityList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmPartitionActivityList xmlns:ns2="http://automatedMediaLibrary/">
  < ekmPartitionActivity/> A list of ekmPartitionActivity objects
</ns2:ekmPartitionActivityList>
```

## Figure 57: ekmPartitionActivity

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmPartitionActivity xmlns:ns2="http://automatedMediaLibrary/">
  <partition>partition</partition>
  <method>method</method>
  <user>user</user>
  <loginFrom>loginFrom</loginFrom>
  <dateTime>2001-12-31T12:00:00</dateTime>
</ns2:ekmPartitionActivity>
```

## Figure 58: ekmServersList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ekmServersList xmlns:ns2="http://automatedMediaLibrary/">
  <ekmServers/> <!-- A list of ekmServers objects -->
</ns2:ekmServersList>
```

## Figure 59: ekmServers

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ekmServers xmlns:ns2="http://automatedMediaLibrary/">
  </ekmServerType> <!-- 2(RKM), 4(KMIP), 8(QEKM), 16(SKM), 32(TKLM) -->
  <!-- Note: RKM is no longer supported -->
  <server>
    <hostName>10.20.9.18</hostName>
    <port>3801</port>
    <status>Active</status>
  </server>
  <server>
    <hostName>10.20.9.6</hostName>
    <port>3801</port>
    <status>Standby</status>
  </server>
  <ekmPathDiagnosticsInterval>0-60</ekmPathDiagnosticsInterval> <!-- 0-60 minutes, where 0
means disabled -->
  <ssl>false</ssl>
</ns2:ekmServers>
```

## Figure 60: ekmServerTestResultList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmServerTestResultList xmlns:ns2="http://automatedMediaLibrary/">
  </ekmServerTestResult> <!-- A list of ekmServerTestResult objects -->
</ns2:ekmServerTestResultList>
```

## Figure 61: ekmServerTestResult

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmServerTestResult xmlns:ns2="http://automatedMediaLibrary/">
  <server>server</server> <!-- The EKM server name/IP -->
  <test> <!-- The list of test objects -->
    <type>1</type> <!-- 1(Ping Test), 2(Path Test), 3(Configure Test) -->
    <result>1</result> <!-- 1(Passed), 2(Failed) -->
  </test>
</ns2:ekmServerTestResult>
```

## Figure 62: elementList (ENUM)

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<elementList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="component name">
    <element name="element name"> <!-- One or more elements -->
      <entry key="1" value="Connectivity"/> <!-- One or more key value entry pairs -->
    </element>
  </component>
</elementList>
```

## Figure 63: elementList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:elementList xmlns:ns2="http://automatedMediaLibrary/">
  <element/> <!-- A list of element objects -->
</ns2:elementList>
```

## Figure 64: element

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:element xmlns:ns2="http://automatedMediaLibrary/">
  <coordinate/> <!-- See
Figure 23: coordinate -->
  <address>256</address> <!-- The logical SCSI element address -->
  <status>2</status>
  <!--
1 (Not Installed),
2 (Accessible),
3 (Not Accessible)
-->
  <barcode></barcode>
  <owner>Test Partition</owner>
  <configuredType>0</configuredType> <!-- This field is currently not used and should be ignored. -->
  <shared>true/false</shared> <!-- Deprecated, use ieStatus element instead. -->
  <ieStatus>0</ieStatus>
  <!--
0(None),
1(Shared),
2(System Partition)
This element is not supported on the i6k
-->
</ns2:element>
```

## Figure 65: email

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:email xmlns:ns2="http://automatedMediaLibrary/">
  <!-- A list of recipients -->
  <recipient>john.doe@company.com</recipient>
  <recipient>jane.doe@company.com</recipient>
  <comment>Needs your urgent attention</comment>
</reportCriteria> <!-- Figure 162: reportCriteria -->
</ns2:email>
```

## Figure 66: emailServer

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailServer xmlns:ns2="http://automatedMediaLibrary/">
  <server>10.20.169.2</server>
  <accountName>john.doe</accountName>
  <accountPassword>secret_password</accountPassword>
  <senderEmailAddress>dvt8@quantum.com</senderEmailAddress>
  <authorize>true</authorize>
  <testEmailAddress>john.doe@company.com</testEmailAddress>
</ns2:emailServer>
```

## Figure 67: emailRecipientList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailRecipientList xmlns:ns2="http://automatedMediaLibrary/">
  <emailRecipient>
    <id>1</id> <!-- Automatically generated by the library -->
    <address>john.doe@company.com</address> <!-- e-mail address -->
  </emailRecipient>
</ns2:emailRecipientList>
```

## Figure 68: emailRecipient

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailRecipient xmlns:ns2="http://automatedMediaLibrary/">
  <id>1</id> <!-- Automatically generated by the library -->
  <address>john.doe@company.com</address> <!-- e-mail address -->
</ns2:emailRecipient>
```

## Figure 69: emmc

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:emmc xmlns:ns2="http://automatedMediaLibrary/">
  <sectorUsage>Good</sectorUsage> <!-- Good, Warning, Alert and Degraded -->
  <spareBlocksUsage>Good</spareBlocksUsage> <!-- Good, Warning and Alert -->
</ns2:emmc>
```

## Figure 70: entryList (ENUM)

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<entryList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="component name">
    <element name="element name">
      <entry key="1" value="SCSI"/> <!-- One or more key value entry pairs -->
    </element>
  </component>
</entryList>
```

## Figure 71: ethernetExpansionBladeList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ethernetExpansionBladeList xmlns:ns2="http://automatedMediaLibrary/">
  <ethernetExpansionBlade/> A list of ethernetExpansionBlade objects, see Figure 72:
  ethernetExpansionBlade
</ns2:ethernetExpansionBladeList>
```

## Figure 72: ethernetExpansionBlade

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ethernetExpansionBlade xmlns:ns2="http://automatedMediaLibrary/">
  <blade/> See Figure 12: blade
  <ethernetExpansionBladePort/> A list of 6 ethernetExpansionBladePort objects, see Figure 73:
  ethernetExpansionBladePort
</ns2:ethernetExpansionBlade>
```

## Figure 73: ethernetExpansionBladePort

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ethernetExpansionBladePort xmlns:ns2="http://automatedMediaLibrary/">
  <number>0</number>
  <linkStatus>linkStatus</linkStatus>
  <speed>0</speed>
  <duplex>duplex</duplex>
</ns2:ethernetExpansionBladePort>
```

## Figure 74: externalApplicationList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:externalApplicationList xmlns:ns2="http://automatedMediaLibrary/">
  </externalApplication> A list of externalApplication objects.
</ns2:externalApplicationList>
```

## Figure 75: externalApplication

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:externalApplication xmlns:ns2="http://automatedMediaLibrary/">
  <name>snapi-2.0.1</name>
  <version>110i.EE002</version>
  <description>StorNext Plugin (3.5 to 4.1)</description>
</ns2:externalApplication>
```

## Figure 76: externalApplicationServersList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:externalApplicationServersList xmlns:ns2="http://automatedMediaLibrary/">
  </externalApplicationServers> A list of externalApplicationServers objects
</ns2:externalApplicationServersList>
```

## Figure 77: externalApplicationServers

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:externalApplicationServers xmlns:ns2="http://automatedMediaLibrary/">
  <name>StorNext</name>
  <server>
    <name>10.20.169.88</name>
    <port>61776</port>
  </server>
  <server>
    <name>10.20.9.18</name>
    <port>61776</port>
  </server>
</ns2:externalApplicationServers>
```

```

    <externalApplicationName>snappy-2.0.1</externalApplicationName>
    <username>>false</username> <!-- The username to use with StorNext Web Services (i3/i6)-->
    <password>>false</password> <!-- The password to use with StorNext Web Services (i3/i6)-->
    <protocol>0</protocol> <!-- This indicates which protocol to use for Web Services communications,
(i3/i6)-->
<!--
0(None),
1(HTTP),
2(HTTPS)
-->
</ns2:externalApplicationServersList>

```

## Figure 78: fcBladeList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcBladeList xmlns:ns2=http://automatedMediaLibrary/>
  <fcBlade/> A list of fcBlade objects, see Figure 79: fcBlade
</ns2:fcBladeList>

```

## Figure 79: fcBlade

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcBlade xmlns:ns2=http://automatedMediaLibrary/>
  <blade/> See Figure 12: blade
  <wwnn>wwnn</wwnn>
  <status>1</status> <!-- 1(Unknown), 2(OK), 3(Warning), 4(Failed) -->
  <hostPortFailover>true</hostPortFailover>
  <fcBladePort/> A list of 6 fcBladePort objects, see Error! Reference source not found.
  <host/> A list of host objects, see Figure 92: host
</ns2:fcBlade>

```

## Figure 80: firmwareList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareList xmlns:ns2="http://automatedMediaLibrary/">
  <lastInstallDate>2014-06-02 09:57:50 -0600</lastInstallDate>
  <firmware/> <!-- A list of firmware objects -->
</ns2:firmwareList>

```

## Figure 81: firmware

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmware xmlns:ns2="http://automatedMediaLibrary/">
  <component>Current</component> <!-- Values are 'Current' (i6k only), 'Rollback' and 'Uploaded' -->
  <version>665H.TS07401</version> <!-- The firmware/software version -->
  <signingStatus>Signed by Production Certificate</signingStatus>
</ns2:firmware>

```

## Figure 82: firmwareFileList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:firmwareFileList xmlns:ns2="http://automatedMediaLibrary/">
  <firmwareFile/> A list of firmwareFile objects, see Figure 85: firmwareFile
</ns2:firmwareFileList>

```

### Figure 83: firmwareUpdateList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareUpdateList xmlns:ns2="http://automatedMediaLibrary/">
  </firmwareUpdate> A list of firmwareUpdate objects.
</ns2:firmwareUpdateList>
```

### Figure 84: firmwareUpdate

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareUpdate xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>HU19487U51</serialNumber>
  </firmwareFile> A firmwareFile object
</ns2:firmwareUpdate>
```

### Figure 85: firmwareFile

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:firmwareFile xmlns:ns2="http://automatedMediaLibrary/">
  <name>name</name>
  <version>version</version>
  <vendor>vendor</vendor> <!-- HP or IBM -->
  <type>type</type> <!-- LTO2, LTO3, LTO4, LTO5, LTO6, LTO7 or LTO8 -->
  <formFactor>HH or FH</formFactor> <!-- HH (Half Height) or FH (Full Height) -->
  <interface>Fibre</interface> <!-- Fibre or SAS -->
</ns2:firmwareFile>
```

### Figure 86: firmwareStatusList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareStatusList xmlns:ns2="http://automatedMediaLibrary/">
  <updateState>2</updateState> <!-- 0(None), 1(Pending), 2(In Progress), 3(Canceling), 4(Canceled),
5(Success), 6(Failure) -->
  <firmwareStatus/> A list of firmwareStatus objects, see Figure 87: firmwareStatus
</ns2:firmwareStatusList>
```

### Figure 87: firmwareStatus

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareStatus xmlns:ns2="http://automatedMediaLibrary/">
  <component>Drive SN: HU19487U51</component>
  <status>In Progress</status>
</ns2:firmwareStatus>
```

### Figure 88: heartbeatNotificationList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:heartbeatNotificationList xmlns:ns2="http://automatedMediaLibrary/">
  <heartbeatNotification/> A list of heartbeatNotification objects
</ns2:heartbeatNotificationList>
```

## Figure 89: heartbeatNotification

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:heartbeatNotification xmlns:ns2="http://automatedMediaLibrary/">
  <id>1</id>
  <interval>60</interval> <!-- Interval in minutes -->
  <emailAddress>john.doe@company.com</emailAddress> <!-- Who to send the notification too. -->
</ns2:heartbeatNotification>
```

## Figure 90: driveMediaHeatMapList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveMediaHeatMapList xmlns:ns2="http://automatedMediaLibrary/">
  <driveMediaHeatMap> <!-- One or more driveMediaHeatMap objects -->
    <driveSerialNumber>1013000426</driveSerialNumber> <!-- The drives physical serial number -->
    <totalDriveMountCount>1</totalDriveMountCount> <!-- The total number of mounts performed by
this drive -->
    <media> <!-- 0-n media objects -->
      <barcode>0001234L5</barcode>
      <totalMediaMountCount>1</totalMediaMountCount> <!-- The total number of mounts performed
by this media in this drive -->
      <totalAlertCount>1</totalAlertCount> <!-- the total number of tape alerts for this media and drive
combination -->
    </media>
  </driveMediaHeatMap>
</ns2:driveMediaHeatMapList>
```

## Figure 91: hostList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:hostList xmlns:ns2="http://automatedMediaLibrary/">
  <host/> A list of host objects, see Figure 92: host
</ns2:hostList>
```

## Figure 92: host

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:host xmlns:ns2="http://automatedMediaLibrary/">
  <name>Test</name> <!-- The host name cannot be more than 32 characters -->
  <type>2</type>
<!--
0(Unknown),
1(WINDOWS),
2(AIX),
3(IRIX),
4(SOLARIS),
5(HP-UX),
6(NETWARE),
7(GATEWAY),
8(SWITCH),
9(GENERIC),
10(AS400),
11(UNISYS),
12(LINUX),
13(FCR-2),
```

```

14(PV-136T-FC),
15(HP-V2) -->
    <mode>0</mode>
<!--
0(Offline),
1(Online)
-->
    <WWPN>12345678:ABCDABCD</WWPN>
<!-- The World Wide Port Name of the HBA on the host -->
    <port>Port Number</port>
<!-- The port number of HBA on the host, this will default to 0. Used by Scalar i6k FC IO Blade hosts. -->
</ns2:host>

```

### Figure 93: ieSlots

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:ieSlots xmlns:ns2="http://automatedMediaLibrary/">
    <slotCount>0</slotCount> <!-- The number of ie slots configured -->
    <assignmentMode>1</assignmentMode> <!-- 1(Manual), 2(Automatic) -->
</ns2:ieSlots>

```

### Figure 94: ieStationList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ieStationList xmlns:ns2="http://automatedMediaLibrary/">
    <ieStation/> A list of ieStation objects, see Figure 95: ieStation
</ns2:ieStation>

```

### Figure 95: ieStation

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ieStation xmlns:ns2="http://automatedMediaLibrary/">
    <number>0</number>
    <coordinate/> See
Figure 23: coordinate

```

```

    <slotCount>0</slotCount>
    <opened>false</opened>
    <status>1</status> <!-- 1(locked), 2(unlocked) -->
    <mode>0</mode> <!-- 1(Online), 2(Offline) -->
    <state>1</state> <!-- 1(Varied On), 2(Varied Off) -->
</ns2:ieStation>

```

### Figure 96: internalNetwork

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:internalNetwork xmlns:ns2="http://automatedMediaLibrary/">
    <current>192.19.240.0</current>
    <options>10.247.240.0</options> <!-- One or more options elements. For I3/i6 the available options are
10.247.240.0, 172.29.240.0, 192.168.240.0, 192.19.240.0 -->
</ns2:internalNetwork>

```

## Figure 97: inventoryTask

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:inventoryTask xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL1</partitionName> <!-- The partition name or NULL for physical library inventory -->
  <offline>true</offline> <!-- Take the partition/physical library offline while doing the inventory. You should
almost always set this to true -->
  <startElement>2048</startElement>
  <elementCount>2058</elementCount>
</ns2:inventoryTask>
```

## Figure 98: ldap

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ldap
  xmlns:ns2="http://automatedMediaLibrary/"
  <enabled>true</enabled>
  <primaryServer>10.20.170.3</primaryServer>
  <alternateServer>10.20.170.4</alternateServer>
  <serverPort>389</serverPort> <!-- 389 (Standard port), 636 (Secure port) -->
  <secureMode>1</secureMode> <!-- 1(LDAP standard), 2(LDAPS, TLS connection), 3(StartTLS, start a
TLS session within an already established LDAP connection -->
  <searchUser>cn=administrator,cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</searchUser>
  <searchUserPassword></searchUserPassword>
  <usersContext>cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</usersContext>
  <groupContext>cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</groupContext>
  <libraryAccessGroupsUser>cn=people,cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</libraryAccessGr
roupsUser>
  <libraryAccessGroupsAdmin>cn=admins,cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</libraryAccess
GroupsAdmin>
  <!-- The following are used to support ldap-kerberos and will only be supported on non-Scalari6k products
-->
  <realm>string</realm>
  <keyDistributionCenter>string</keyDistributionCenter>
  <domainMapping>string</domainMapping>
  <keytabFile>
    <name>keyTabFile</name> <!--The name of the file -->
    <date>yyyy-dd-mm hh:mm:ss +nnnn</date> <!--The date and time the file was uploaded -->
  </keytabFile>
</ns2:ldap>
```

## Figure 99: ldapTest

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ldapTest xmlns:ns2="http://automatedMediaLibrary/">
  <user>JIM</user> <!-- The LDAP user -->
  <password>*****</password> <!-- The LDAP user password -->
</ldap> <!-- The ldap object to test see Figure 98: ldap -->
</ns2:ldapTest>
```

## Figure 100: libraryControlBladeList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:libraryControlBladeList xmlns:ns2=http://automatedMediaLibrary/>
  <libraryControlBlade/> A list of libraryControlBlade objects
</ns2:libraryControlBladeList>
```

## Figure 101: libraryControlBlade

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:libraryControlBlade xmlns:ns2="http://automatedMediaLibrary/">
  <blade/> See Figure 12: blade
  <fcBladePort/> A list of fcBladePort objects, see Error! Reference source not found.
</ns2:libraryControlBlade>
```

## Figure 102: libraryDiagnosticTestList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestList xmlns:ns2="http://automatedMediaLibrary/">
  <libraryDiagnosticTest /> <!-- A list of libraryDiagnosticTest objects -->
</ns2:libraryDiagnosticTestList>
```

## Figure 103: libraryDiagnosticTest

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTest xmlns:ns2="http://automatedMediaLibrary/">
  <name>Robot Test</name>
  <type>16</type>
</ns2:libraryDiagnosticTest>
```

## Figure 104: libraryDiagnosticTestResult

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestResult xmlns:ns2="http://automatedMediaLibrary/">
  <testType>12</testType>
  <startTime>2001-12-31T12:00:00</startTime>
  <endTime>2001-12-31T12:00:00</endTime>
  <state>2</state> <!-- 1(In Progress), 2(Pending), 3(Stopped), 4(Terminated), 5(Complete) -->
  <!-- A List of results for the given test type -->
  <result>
    <type>16</type> <!-- The test type, can be different from libraryDiagnosticTestResult.testType when
you run full IVT -->
    <element>1,1,1,1,1</element> <!-- I3/i6 only -->
    <description>ALIGNMENT MAGAZINE PASSED</description>
    <status>1<status> <!-- 0(Unknown), 1(Passed), 2(Warning), 3(Invalid), 4(Incomplete), 5(Failed),
6(Skipped) -->
  </result>
</ns2:libraryDiagnosticTestResult>
```

## Figure 105: libraryDiagnosticTestSessionList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestSessionList xmlns:ns2="http://automatedMediaLibrary/">
  <libraryDiagnosticTestSession /> <!-- A list of libraryDiagnosticTestSession objects -->
</ns2:libraryDiagnosticTestSessionList>
```

## Figure 106: libraryDiagnosticTestSession

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestSession xmlns:ns2="http://automatedMediaLibrary/">
  <taskId>0</taskId>
  <startTime>2001-12-31T12:00:00</startTime>
  <endTime>2001-12-31T12:00:00</endTime>
  <state>5</state> <!-- 1(In Progress), 2(Pending), 3(Stopped), 4(Terminated), 5(Complete) -->
  <libraryDiagnosticTestResult /> <!-- A list of libraryDiagnosticTestResult objects -->
</ns2:libraryDiagnosticTestSession>
```

## Figure 107: libraryDiagnosticTestTask

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestTask xmlns:ns2="http://automatedMediaLibrary/">
  <testType>12</testType>
  <!--
12 (VT, Start Test Diagnostic Session (i6k))
13 (VT, Finish Test Diagnostic Session (i6k))
14 (VT, Robot Accessor Test (i6k))
15 (VT, Robot Picker Test (i6k))
16 (VT, Robot Assembly Test (i6k and I3/i6))
17 (VT, IE Station Assembly Test (i6k))
18 (VT, Tower Assembly Test (i6k))
19 (VT, Tower Scanner Test (i6k))
20 (VT, Robot Scanner Test (i6k))
21 (VT, Library Get Put Test (i6k))
22 (VT, Drive Assembly Test (i6k and I3/i6))
23 (VT, Magazine Test (I3/i6))
24 (IVT, Full Installation Verification Test (i6k and I3/i6))
27 (VT, Library Alignment Test (i6k))
-->
  <libraryTestParameters>
    <robot>0</robot> <!-- 0(Left), 1(Right) and 2(Both) -->
    <startModule>0</startModule>
    <endModule>0</endModule>
    <startRack>0</startRack>
    <endRack>0</endRack>
    <slotLocation> <!-- Used by picker assembly test -->
      <coordinate/>
    </slotLocation>
    <mediaLocation> <!-- A list of scratch tapes, used by robot position test, picker assembly, IE assembly,
GET/PUT and drive assembly tests. -->
      <coordinate/>
    </mediaLocation>
    <startLocation> <!--Start coordinate -->
      <coordinate/>
    </startLocation>
    <endLocation> <!--End coordinate -->
      <coordinate/>
    </endLocation>
    <partialIvt>true</partialIvt> <!-- Indicates whether this is a partial IVT, this requires startModule,
endModule, startRack and endRack. (i6k only) -->
  </libraryTestParameters>
</ns2:libraryDiagnosticTestTask>
```

## Figure 108: libraryStatus

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:libraryStatus xmlns:ns2="http://automatedMediaLibrary/">
  <state>1</state> <!-- 0(Unknown), 1(Ready), 2(Not Ready), 3(Becoming Ready) -->
  <mode>1</mode> <!-- 1(Online) 2(Offline) -->
  <ras>
    <status> <!-- See Figure 151: RASGroupStatus -->
    <group>0</group>
    <status>4</status>
  </status>
  <openedTickets>5</openedTickets>
</ras>
<partition> <!-- 0 or n partition entries -->
  <name>AV</name>
  <mode>1</mode> <!-- 1(Online) 2(Offline) -->
  <type>1</type> <!-- 1(Standard), 2(EDLM), 3(AMP), 4(Active Vault), 5(CVTL) -->
</partition>
<drive> <!-- 0 or n drive entries -->
  <logicalSerialNumber>drive logical serial number</logicalSerialNumber>
  <mode>1</mode> <!-- 1(Online) 2(Offline) -->
  <state>2</state> <!-- 1(Varied On), 2(Varied Off) and 3(Pending/Initializing) -->
</drive>
<robot> <!-- 0 or n robot entries -->
  <serialNumber>The robot serial number</serialNumber>
  <location>Right or Left robot</location> <!-- Left or Right -->
  <status>The robot status</status> <!-- 0(Unknown), 1(Good), 2(Not initialized), 3(Initializing),
4(Failed), 5(N/A)
  <state>2</state> <!-- 1(Varied On), 2(Varied Off) and 3(Pending/Initializing) -->
</robot>
<tower> <!-- 0 or n tower entries -->
  <frameNumber>The frame number the tower is in</frameNumber>
  <status>The robot status</status> <!-- 0(Unknown), 1(Not Present), 2(Failed), 3(Not Ready),
4(Initializing), 5(Ready)
  <state>2</state> <!-- 1(Varied On), 2(Varied Off) and 3(Pending/Initializing) -->
  <mode>1</mode> <!-- 1(Online) 2(Offline) -->
</tower>
<systemStatus>0</systemStatus>
<!--
0 (Unknown)
1(OK)
2 (Offline Devices)
3 (Not Ready Devices)
-->
  <saveConfigurationRequired>true</saveConfigurationRequired> <!-- Was there a library configuration
change made that requires a new rescue image to be generated. -->
  <time>2014-06-27 11:00:15 -0600</time> <!-- The current time on the library. -->
  <timeZoneOffset> Returns the offset, measured in minutes, for the local time zone relative to
UTC</timeZoneOffset>
  <timeSinceEPOC>1410958379212</timeSinceEPOC> <!-- Returns the number of milliseconds
elapsed since January 1st 1970 -->
  <snmpStarted>true</snmpStarted> <!-- This element is used on the i6k to indicate if the SNMP
daemon is running when the LMC server starts up. -->
</ns2:libraryStatus>
```

## Figure 109: licenseList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:licenseList xmlns:ns2="http://automatedMediaLibrary/">
  <license/> <!-- A list of license objects. -->
</ns2:licenseList>
```

## Figure 110: license

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:license xmlns:ns2="http://automatedMediaLibrary/">
  <feature>The name of the feature</feature> <!-- This element is used to install a new license key
(PPOST request) and it also lists the license feature names (GET request), see type element below for the
list of valid license names -->
  <quantity>1</quantity> <!-- Some licenses are controlled by a number, for instance COD, the rest
will be 1 Or 0 is not installed -->
  <description>6 Drives</description>
  <expiration>Permanent</expiration> <!-- for i6k it will be 'Permanent', "Expired", "N/A" or 'Month Day,
Year' example, Jan 12, 2015 and for i3/i6 YYYY-MM-DD -->
  <installed>true</installed> <!-- Is the license installed -->
  <type> License type</type>
<!--
2(Advanced Reporting),
3(Active Vault),
4(Capacity On Demand),
6(Extended Data Lifecycle Management),
7(Encryption Key Management),
8(Partition),
9(Partition Utilization),
11(Path Failover/Native Storage Networking (SNW)),
13(Service Level (i3/i6 Only))
15(Path Failover (i3/i6 Only))
16(Advanced Path Failover (i3/i6 Only))
17(Scalar Key Manager SKM (i3/i6 Only))
-->
  <usedQuantity>2</usedQuantity> <!-- This element only applies to the following license type:
Capacity on Demand, Partition, Encryption Key Management and Path Failover/Native Storage
Networking -->
</license>
</ns2:license>
```

## Figure 111: loginActivityList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:loginActivityList xmlns:ns2="http://automatedMediaLibrary/">
  <loginActivity /> A list of loginActivity objects
</ns2:loginActivity List>
```

## Figure 112: loginActivity

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:loginActivity xmlns:ns2="http://automatedMediaLibrary/">
  <user>admin</user>
  <role>0</role> <!-- 0(Admin User), 1(Standard User), 2(Service User), 3(Guest User) -->
  <sessionId>1</sessionId>
```

```

    <command>Login</command> <!-- The command that was executed login, logout, create partition,
etc... -->
    <loginFrom>10.20.9.68</loginFrom>
    <time>2014-06-26 15:35:31 -0600</time>
    <description>More details of the command that was run</description>
</ns2:loginActivity>

```

### Figure 113: ItfsBladeList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ItfsBladeList xmlns:ns2="http://automatedMediaLibrary/">
  <ItfsBlade/> <!-- A list of ItfsBlade objects -->
</ns2:ItfsBladeList>

```

### Figure 114: ItfsBlade

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ItfsBlade xmlns:ns2="http://automatedMediaLibrary/">
  <blade/> <!-- See Figure 12: blade -->
  <ipAddress>10.60.166.130</ipAddress>
  <partition>Partition Name</partition>
  <baseVersion>The blades base firmware version</baseVersion>
  <mode>1</mode>
  <!--
0(Unknown)
1(Online)
2(Offline)
-->
  <state>1</state>
  <!--
0(Unknown)
1(Not Ready)
2(Becoming Ready)
3(Ready)
-->
  <status>1</status>
  <!--
0(Unknown)
1(Good)
2(Invalid)
3(Missing)
4(Initializing)
-->
</ns2:ItfsBlade>

```

### Figure 115: LUIAccess

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:LUIAccess xmlns:ns2="http://automatedMediaLibrary/">
  <mode>1</mode> <!-- 1(Open), 2(Login required), 3(PIN Required) -->
  <pin>1234</pin> <!-- 4-digit string -->
</ns2:LUIAccess>

```

## Figure 116: magazineList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:magazineList xmlns:ns2="http://automatedMediaLibrary/">
  <magazine /> <!-- A list magazine objects -->
</ns2:magazineList>
```

## Figure 117: magazine

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:magazine xmlns:ns2="http://automatedMediaLibrary/">
  <coordinate /> <!-- See
Figure 23: coordinate -->
  <storageSlotCount>0</storageSlotCount> <!-- The number of storage slots in the magazine -->
  <ieSlotCount>0</ieSlotCount> <!-- The number of ie slots in the magazine -->
  < mediaInStorageCount>2</mediaInStorageCount>
  < mediaInIECount>0</mediaInIECount>
  <status>1</status> <!-- 1(Good), 2(Ejected) -->
  <state>1</state> <!-- 1(Ready), 2(Not Ready) -->
</ns2:magazine>
```

## Figure 118: mediaList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:mediaList xmlns:ns2="http://automatedMediaLibrary/">
  <media/> A list of media objects, see Figure 119: media
</ns2:mediaList>
```

## Figure 119: media

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:media xmlns:ns2="http://automatedMediaLibrary/">
  <barcode>barcode</barcode>
  <mediaType>0</mediaType>
<!--
2(LTO1),
3(LTO2),
4(LTO3),
5(LTO4),
6(LTO5),
7(LTO6),
8(LTO7),
9(LTO8)
20(Cleaning)
-->
  <cartridgeType>0</cartridgeType>
<!--
0(Data),
1(Cleaning),
2(FUP),
3(Diagnostic)
This element is not supported on the i6k
-->
  <currentOwner>N/A</currentOwner>
  <previousOwner>N/A</previousOwner>
```

```

    <encryption>Unknown</encryption>
<!--
Unknown,
Encrypted,
Not Encrypted
-->
    <coordinate/> See
Figure 23: coordinate
    <shared>true/false</shared> <!--Deprecated, use ieStatus element instead. -->
    <ieStatus>0</ieStatus>
<!--
0(None),
1(Shared),
2(System Partition)
This element is not supported on the i6k
-->
    <elementAddress>4096</elementAddress> <!-- The SCSI logical element address of where the media
is located -->
    <accessible>false</accessible> <!-- Is the media currently accessible (media located in a varied off
tower would not be accessible (false)). Scalar i6k only, added in version 751. -->
</ns2:media>

```

## Figure 120: mediaSecurityEventList

```

<?xml version='1.0' encoding='UTF-8'?>
<ns2:mediaSecurityEventList xmlns:ns2="http://automatedMediaLibrary/">
  < mediaSecurityEvent/> A list of mediaSecurityEvent objects
</ns2:mediaSecurityEventList>

```

## Figure 121: mediaSecurityEvent

```

<?xml version='1.0' encoding='UTF-8'?>
<ns2:mediaSecurityEvent xmlns:ns2="http://automatedMediaLibrary/">
  <date>2001-12-31 12:00:00</date>
  <barcode>barcode</barcode>
  <coordinate/> <!-- See
Figure 23: coordinate -->
  <removalExpected>true</removalExpected> <!-- Was the media removal expected or unexpected -->
</ns2:mediaSecurityEvent>

```

## Figure 122: mediaSecurityPolicy

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:mediaSecurityPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <unexpectedRemovalAfterReboot>true</unexpectedRemovalAfterReboot>
  <unexpectedRemovalDuringLibraryOperation>true</unexpectedRemovalDuringLibraryOperation>
  <expectedRemovalFromIle>true</expectedRemovalFromIle>
  <unexpectedRemovalFromIle>true</unexpectedRemovalFromIle>
</ns2:mediaSecurityPolicy>

```

## Figure 123: mediaUsageList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:mediaUsageList xmlns:ns2="http://automatedMediaLibrary/">
  <mediaUsage/> A list of mediaUsage objects

```

</ns2:mediaUsageList>

### Figure 124: mediaUsage

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:mediaUsage xmlns:ns2="http://automatedMediaLibrary/">
  <updated>2001-12-31T12:00:00</updated>
  <barcode>barcode</barcode>
  <serialNumber>Media serial number</serialNumber>
  <manufacturer>manufacturer</manufacturer>
  <type>type</type>
  <manufacturerDate>2001-12-31T12:00:00</manufacturerDate>
  <threadCount>0</threadCount>
  <MBread>0</MBread>
  <MBwrite>0</MBwrite>
  <recoveredReadErrors>0</recoveredReadErrors>
  <recoveredWriteErrors>0</recoveredWriteErrors>
  <unRecoveredReadErrors>0</unRecoveredReadErrors>
  <unRecoveredWriteErrors>0</unRecoveredWriteErrors>
  <encrypted>true</encrypted>
  <edlmScanDate></edlmScanDate> <!-- The date the media was last tested by an EDLM scan (i3/i6) -->
  <edlmScanType></edlmScanType> <!-- The EDLM scan type "Quick", "Normal", "Full" (i3/i6) -->
  <edlmScanResult></edlmScanResult> <!-- The EDLM scan result "Not Completed", "Good", "Untested",
  "Suspect", "Failed" (i3/i6) -->
</ns2:mediaUsage>
```

### Figure 125: moduleList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:moduleList xmlns:ns2="http://automatedMediaLibrary/">
  <module/> <!-- A list of module objects -->
</ns2:moduleList>
```

### Figure 126: module

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:module xmlns:ns2="http://automatedMediaLibrary/">
  <number>1</number>
  <type>1</type> <!-- 1(Control Module), 2(Expansion Module) -->
  <section>1</section> <!-- The module section number -->
</ns2:module>
```

### Figure 127: moveMediumList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:moveMediumList xmlns:ns2="http://automatedMediaLibrary/">
  <moveMedium/> A list of moveMedium objects
</ns2:moveMediumList>
```

### Figure 128: moveMedium

```
<ns2:moveMedium xmlns:ns2="http://automatedMediaLibrary/">
  <mode>2</mode> <!-- This is an optional field that provides the capability to take the partition(s) offline
  that are involved in the move medium, only standard partitions apply. The default behavior is to do
  nothing -->
  <type>0</type>
```

```

<!-- This element has been deprecated use moveClass instead.
0(Normal, requires source and destination coordinates.),
3(Unload, requires source coordinate only and source must be a drive slot. The drive must belong to a
partition and the WS will move the media to its home slot. If home slot is occupied, the WS will try and
move to first available storage slot that belongs to the partition. If the media is not owned by a partition,
make sure it is not moved into a partition storage slot.)
  </sourceCoordinate> A coordinate object, see
Figure 23: coordinate
  </destinationCoordinate> A coordinate object, see
Figure 23: coordinate
  <moveClass>0</moveClass>
<!-- added in version i6k(743). Currently not supported by i3/i6
0 (Normal move. The source and destination coordinates are required),
2 (Import, requires the source coordinate only, it must be an IE slot and must belong to a partition. The
WS moves the media to the first available slot in the partition) Currently not supported.
4 (Export, requires the source coordinate only, it must be a storage slot and it must belong to a partition.
The WS will move the media to the first available IE slot that belongs to the partition. For i3/i6 it can be a
shared IE.) Currently not supported.
8 (Unload drive. This only requires the source coordinate of the drive. The move will attempt to unload the
drive and move it to its home slot. If the home slot is not found, it will try and move the media to an empty
slot.
16 (No Eject required. By default, when moving a tape from a drive to a slot, the library will try to eject the
drive before doing the move. By setting this flag, the library will no perform the eject. This option would be
used in conjunction with a normal move, from a drive to a slot, or an unload. For example, if doing an
unload and an eject is not required, the moveClass would be set to 24 (8+16))
32 (Move to closest slot. This is used in conjunction with a drive unload (8). Instead of moving the media
from the drive to its home slot, move the media to the nearest empty slot.
-->
</ns2:moveMedium>

```

## Figure 129: network

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:network xmlns:ns2="http://automatedMediaLibrary/">
  </netInterfaceList> See Figure 133: netInterfaceList
  </netConfigurationList> See Figure 131: netConfigurationList
</ns2:network>

```

## Figure 130: networkAccess

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:networkAccess
  xmlns:ns2="http://automatedMediaLibrary/">
  <icmp>
    <enabled>true</enabled>
  </icmp>
  <ssh>
    <enabled>>false</enabled>
  </ssh>
  <cli>
    <enabled>true</enabled>
  </cli>
  <snmp>
    <enabled>true</enabled>
    <v1v2>true</v1v2>
  </snmp>

```

```

    <smis>
      <enabled>true</enabled>
      <secure>>false</secure>
    </smis>
    <cvtl>
      <enabled>>false</enabled>
    </cvtl>
  </xml>
  <enabled>true</enabled>
</xml>
</ns2:networkAccess>

```

**Figure 131: netConfigurationList**

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netConfigurationList xmlns:ns2="http://automatedMediaLibrary/">
  </netConfiguration> A list of netConfiguration objects
</ns2:netConfigurationList>

```

**Figure 132: netConfiguration**

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <location>N/A</location>
  <version>1</version> <!-- 1(IPv4), 2(IPv6) -->
  <hostName>dvt4</hostName> <!-- Valid characters, regx "[a-zA-Z][a-zA-Z0-9\-.]*$" -->
  <domainName>company.com</domainName>
  <type>1</type> <!-- 1(Unknown), 0(None), 1(Static), 2(DHCP), 3(DHCPv6), 4(Static and DHCPv6) -->
  <netMask>255.255.248.0</netMask>
  <netGateway>10.20.168.1</netGateway>
  <ipAddress>10.20.171.14</ipAddress>
</ns2:netConfiguration>

```

**Figure 133: netInterfaceList**

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netInterfaceList xmlns:ns2="http://automatedMediaLibrary/">
  </netInterface> A list of netInterface objects, see Figure 134: netInterface
</ns2:netInterfaceList>

```

**Figure 134: netInterface**

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netInterface xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <macAddress>00:30:8C:06:78:D7</macAddress>
  <duplexMode>full</duplexMode>
  <autoNegotiate>>false</autoNegotiate>
  <speed>1</speed>
<!--
0(Unknown),
1(10Mb),
2(100Mb),
3(1Gb),
4(10Gb)

```

```
-->
  <linkStatus>1</linkStatus> <!-- 1(Up), 2(Down) -->
</ns2:netInterface>
```

### Figure 135: networkDeviceConnectivityInfoList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:networkDeviceConnectivityInfoList xmlns:ns2="http://automatedMediaLibrary/">
  <networkDeviceConnectivityInfo/> <!-- A list of networkDeviceConnectivityInfo objects -->
</ns2:networkDeviceConnectivityInfoList>
```

### Figure 136: networkDeviceConnectivityInfo

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:networkDeviceConnectivityInfo xmlns:ns2="http://automatedMediaLibrary/">
  <device>CMB</device>
  <location>[1, 1, 1, 1, 2]</location>
  <pingStatus>OK</pingStatus>
  <address>192.19.0.28</address>
  <host>M0000281</host>
  <description>N/A</description>
</ns2:networkDeviceConnectivityInfo>
```

### Figure 137: NTP

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:NTP xmlns:ns2="http://automatedMediaLibrary/">
  <server>0.us.pool.ntp.org</server> <!-- You can have 0 or more of these -->
</ns2:NTP>
```

### Figure 138: onlineHelp

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:onlineHelp xmlns:ns2="http://automatedMediaLibrary/">
  <version>200Q.G0002</version>
  <mode>1</mode> <!-- 0(Unknown), 1(Local), 2(Remote) -->
  <installDate>The date/time the help bundle was installed</installDate>
</ns2:onlineHelp>
```

### Figure 139: partitionList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partitionList xmlns:ns2="http://automatedMediaLibrary/">
  <partition/> A list of partition objects, see Figure 140: partition
</ns2:partitionList>
```

### Figure 140: partition

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partition xmlns:ns2="http://automatedMediaLibrary/">
  <id>0</id> <!-- Used internally -->
  <name>name</name> <!-- The name 'System' (case-insensitive) cannot be used on i3/i6, it is a
reserved word -->
  <serialNumber>serialNumber</serialNumber>
  <type>1</type>
<!--
```

```

1(Standard)
2(EDLM) Not supported on i3
3(AMP) Not supported on i3/i6
4(Active Vault) Not supported on i3
6(Linear Tape File System (LTFS)) Only supported on i3/i6
-->
  <driveDomainType>554</driveDomainType>
<!--
0(Unknown)
3(LTO2)
4(LTO3)
5(LTO4)
6(LTO5)
7(LTO6)
8(LTO7)
9(LTO8)
99(None)
554(Mixed)
-->
  <mode>0</mode><!-- 1(Online), 2(Offline) -->
  <storageSlotCount>0</storageSlotCount>
  <driveCount>0</driveCount>
  <ieSlotCount>0</ieSlotCount> <!-- Not supported on I3/i6 -->
  <xieSlotCount>0</xieSlotCount> <!-- Not supported on I3/i6 -->
  <ampExtensionsCount>0</ampExtensionsCount> <!-- Not supported on I3/i6 -->
  <mediaCount>0</mediaCount>
  <sharedIEMediaCount>0</sharedIEMediaCount> <!-- I3/i6 only, media in an IE slot marked 'awaiting
assignment' when the library is in automatic assignment mode -->
  <barcodeReporting>4</barcodeReporting>
<!--
1(Prefix / Media ID first)
2(Suffix / Media ID last)
3(Disabled / Standard),
4(Pass Through / Extended)
5(Standard 6)
6(Plus 6)
-->
  <vendorId>1</vendorId> <!-- 0(ADIC), 1(Quantum) -->
  <productId>7</productId>
<!--
1((ADIC) Scalar 24)
2((ADIC) Scalar 100)
3((ADIC) Scalar 1000)
4((ADIC) Scalar 10k)
5((ADIC/Quantum) Scalar i500)
6((ADIC/Quantum) Scalar i2000)
7((ADIC/Quantum) Scalar i6000)
8((ADIC/Quantum) Scalar i40-i80)
9((Quantum) Scalar i3-i6)
-->
  <controlPathProvider>0</controlPathProvider> <!-- 0(None), 1(Drive), 2(Management Control Blade) -->
  <policySettings>
    <driveFirmwareLevelingEnabled>false</driveFirmwareLevelingEnabled>
    <driveCleaningEnabled>false</driveCleaningEnabled>
    <driveSpoofingEnabled>true</driveSpoofingEnabled>
    <encryptionEnabled>true</encryptionEnabled>

```

```

    <activeVaultEnabled>false</activeVaultEnabled>
    <autoImportEnabled>true</autoImportEnabled>
    <autoExportEnabled>true</autoExportEnabled>
    <edlmEnabled>false</edlmEnabled>
  </policySettings>
</ns2:partition>

```

**Figure 141: partitionEncryptionPolicyList**

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:partitionEncryptionPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  </partitionEncryptionPolicy> <!-- A list of partitionEncryptionPolicy objects -->
</ns2:partitionEncryptionPolicyList>

```

**Figure 142: partitionEncryptionPolicy**

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:partitionEncryptionPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>partitionName</partitionName>
  </ekmServerType> <!-- 0(None), 2(RKM), 4(KMIP), 8(QEKM), 16(SKM), 32(TKLM) -->
  <!-- Note: RKM is no longer supported -->
  <libraryManaged>true</libraryManaged>
  <fipsEnabled>true</fipsEnabled>
  <keyReuse>true</keyReuse>
  <keyType>0</keyType> <!-- 1(Key per Media), 2(Key per Partition), 3(Key per Library) -->
</ns2:partitionEncryptionPolicy>

```

**Figure 143: physicalLibrary**

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:physicalLibrary xmlns:ns2="http://automatedMediaLibrary/">
  <name>dvt4</name> <!-- The library host name -->
  <serialNumber>273190049</serialNumber> <!-- The library serial number -->
  <vendorId>quantum</vendorId> <!-- The library vendor name -->
  <productId>Scalar i6000</productId> <!-- The library type, i6k, i500 etc... -->
  <mode>1</mode> <!-- 1 (Online) or 2 (Offline) -->
  <state>1</state> <!-- 0 (Unknown), 1 (Ready) or 2 (Not Ready) -->
  <mediaInStorageCount>108</mediaInStorageCount> <!-- The number of media in storage slots -->
  <mediaInDriveCount>1</mediaInDriveCount> <!-- The number of media in drives -->
  <mediaInIeCount>3</mediaInIeCount> <!-- The number of media in IE slots -->
  <storageSlotCount>756</storageSlotCount> <!-- The number of storage slots -->
  <assignedStorageSlotCount>102</assignedStorageSlotCount> <!-- The number of storage slots
owned by partitions. On the i6k this also includes cleaning slots.-->
  <ieSlotCount>24</ieSlotCount> <!-- The number of ie slots -->
  <assignedIeSlotCount>6</assignedIeSlotCount> <!-- The number of ie slots owned by partitions-->
  <driveCount>9</driveCount> <!--The number of drives in the library -->
  <assignedDriveCount>2</assignedDriveCount> <!-- The number of drives owned by partitions -->
  <ieAreaCount>2</ieAreaCount> <!-- The number of configured IE Areas, i3/i6 only -->
  <libraryController>MCB2B</libraryController>
  <roboticController>RCU2</roboticController>
  <firmwareVersion>665Q.DS02101</firmwareVersion> <!-- The library firmware version -->
  <roboticsGeneration>2</roboticsGeneration> <!-- The library robot type 1 (Gen1 for i6k or Model 1 for
i3/i6) or 2 (Gen2 for i6k or Model 2 for i3/i6) -->
  <moduleCount>3</moduleCount> <!-- The number of frames/modules in the library -->
  <towerCount>0</towerCount> <!-- The number of towers in the library -->

```

```

<parkingModules>true</parkingModules> <!-- Does the library have parking modules -->
<cleaningSlotCount>0</cleaningSlotCount> <!-- The number of cleaning slots in the library -->
<cleaningMediaCount>0</cleaningMediaCount> <!-- The number of cleaning media in the library -->
<systemMediaCount>0</systemMediaCount> <!-- The number of media owned by the System
partition. This is only supported on I3/i6. -->
<libraryUpTime>6 days 18h:21m:40s</libraryUpTime> <!--How long has the library been powered up
since last power down -->
<phySettings>
  <driveSerialNumberSpoofing>
    <enabled>true</enabled>
  </driveSerialNumberSpoofing>
  <autoInventory>
    <enabled>false</enabled>
  </autoInventory>
  <autoCalibration> <!-- Deprecated in i12.X -->
    <enabled>false</enabled>
  </autoCalibration>
  <autoConfiguration> <!-- Deprecated in i12.X -->
    <enabled>false</enabled>
  </autoConfiguration>
  <autoCleaning> <!-- Deprecated in i12.X, this is now provided on a partition basis
(aml/partitions/policy/driveCleaning) -->
    <enabled>true</enabled>
  </autoCleaning>
  <autoDriveUnload>
    <enabled>true</enabled>
  </autoDriveUnload>
  <ipv6>
    <enabled>true</enabled> <!-- As of i12.3 you can no longer disable IPv6, it will always be enabled
-->
  </ipv6>
  <extendedIle>
    <enabled>true</enabled>
  </extendedIle>
  <sendUsageStatistics>
    <interval>1</interval> <!-- 0(Disabled), 1(Monthly) and 2(Quarterly) -->
  </sendUsageStatistics>
  <healthCheck>
    <railInterval>0</railInterval> <!-- 0-180 days (0 to disable) -->
    <robotInterval>0</robotInterval> <!-- 0-180 days (0 to disable) -->
    <towerInterval>0</towerInterval> <!-- 0-180 days (0 to disable) -->
  </healthCheck>
  <aisleLights> <!-- Set the duration for aisle lighting -->
    <interval>0</interval> <!-- 0 (off), 30 minutes or 60 minutes -->
  </aisleLights>
  <webCamera> <!-- The IP of the host where the Camera (i6000) Application is running -->
    <ipAddress>10.20.9.1</ipAddress>
  </webCamera>
  <icmpService> <!-- Allow PINGing the library -->
    <enabled>true</enabled>
  </icmpService>
  <sshService> <!-- Secure Shell connections to the library -->
    <enabled>true</enabled>
  </sshService>
  <cliService> <!-- Basic CLI interface to the library -->
    <enabled>true</enabled>

```

```

</cliService>
<xmlInterfaceService> <!-- Interface used by Quantum Vision to get library information -->
  <enabled>true</enabled>
</xmlInterfaceService>
<serviceLogin> <!-- Allow/disallow service user login -->
  <enabled>true</enabled>
  <enabledRemoteAccess>true</enabledRemoteAccess> <!-- Enable a service user to login from a
remote interface (browser) -->
  <remoteAccessTimeout>0</remoteAccessTimeout> <!-- The amount of time before a service
user's remote access will be disabled after it has been enabled. Values are 0 to 72 hours, where 0 is
indefinitely -->
  <enableLocalAccess>true</enableLocalAccess> <!-- Enable a service user to login from the local
user interface -->
  <localAccessTimeout>0</localAccessTimeout> <!-- The amount of time before a service user's
local access will be disabled after it has been enabled. Values are 0 to 72 hours, where 0 is indefinitely -
->
  <serviceUserSession>240</serviceUserSession> <!-- length of the service user session, in
minutes (Not modifiable) -->
  <remoteAccessGranted>2013-05-29 13:17:36</remoteAccessGranted> <!-- date/time remote
access was granted -->
  <localAccessGranted>2013-05-29 13:17:36</localAccessGranted> <!-- date/time local access
was granted -->
</serviceLogin>
<sessionTimeout> <!-- The user session timeout -->
  <minutes>30</minutes> <!-- (1 - 1440) -->
</sessionTimeout>
<snmp>
  <communityString>publicCmtyStr</communityString>
  <enabled>true</enabled>
  <enableVersion1And2>true</enableVersion1And2>
  <enableVersion3>false</enableVersion3> <!-- Not supported in Scalar i6k -->
  <enableAuthenticationTraps>false</enableAuthenticationTraps> <!-- Not supported in Scalar i6k -
->
</snmp>
<smis>
  <enabled>true</enabled>
  <enableSecureSmis>false</enableSecureSmis>
</smis>
</phySettings>
</ns2:physicalLibrary>

```

**Figure 144: physicalLibraryConfiguration**

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:physicalLibraryConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>dvt4</name> <!-- The library host name -->
  <serialNumber>273190049</serialNumber> <!-- The library serial number -->
  <vendorId>quantum</vendorId> <!-- The library vendor name -->
  <productId>Scalar i6000</productId> <!-- The library type, i6k, i500, etc... -->
  <mode>1</mode> <!-- 1 (Online) or 2 (Offline) -->
  <state>1</state> <!-- 1 (Ready) or 2 (Not Ready) -->
  <libraryController>MCB2B</libraryController>
  <roboticController>RCU2</roboticController>
  <firmwareVersion>firmwareVersion</firmwareVersion>
  <roboticsGeneration>0</roboticsGeneration> <!-- The library robot type 1 or 2 -->
  <libraryUpTime>6 days 18h:21m:40s</libraryUpTime> <!--How long has the library been powered up

```

since last power down -->  
</ns2:physicalLibraryConfiguration>

### Figure 145: physicalLibraryRemoteAccess

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:physicalLibraryRemoteAccess xmlns:ns2="http://automatedMediaLibrary/">
  <ipv6>
    <enabled>true</enabled> <!-- As of i12.3 you can no longer disable IPv6, it will always be enabled -->
  </ipv6>
  <icmpService> <!-- Allow/disallow PINGing the library -->
    <enabled>true</enabled>
  </icmpService>
  <sshService> <!-- Secure Shell connections to the library -->
    <enabled>true</enabled>
  </sshService>
  <cliService> <!-- Basic CLI interface to the library -->
    <enabled>true</enabled>
  </cliService>
  <xmlInterfaceService> <!-- Enable Vision Interface -->
    <enabled>true</enabled>
  </xmlInterfaceService>
  <serviceLogin> <!-- Allow/disallow service user login -->
    <enabled>true</enabled>
    <enabledRemoteAccess>true</enabledRemoteAccess> <!-- Enable a service user to login from a
remote interface (browser) -->
    <remoteAccessTimeout>0</remoteAccessTimeout> <!-- The amount of time before a service
user's remote access will be disabled after it has been enabled. Values are 0 to 72 hours, where 0 is
indefinitely -->
    <enableLocalAccess>true</enableLocalAccess> <!-- Enable a service user to login from the local
user interface -->
    <localAccessTimeout>0</localAccessTimeout> <!-- The amount of time before a service user's
local access will be disabled after it has been enabled. Values are 0 to 72 hours, where 0 is indefinitely -
->
    <serviceUserSession>240</serviceUserSession> <!-- length of the service user session, in
minutes (Not modifiable) -->
    <remoteAccessGranted>2013-05-29 13:17:36</remoteAccessGranted> <!-- date/time remote
access was granted -->
    <localAccessGranted>2013-05-29 13:17:36</localAccessGranted> <!-- date/time local access
was granted -->
  </serviceLogin>
  <sessionTimeout> <!-- The user session timeout in minutes, 1 – 1440 -->
    <minutes>0</minutes>
  </sessionTimeout>
</ns2:physicalLibraryRemoteAccess>
```

### Figure 146: physicalLibraryResources

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:physicalLibraryResources xmlns:ns2="http://automatedMediaLibrary/">
  <mediaInStorageCount>0</mediaInStorageCount>
  <mediaInDriveCount>0</mediaInDriveCount>
  <mediaInIleCount>0</mediaInIleCount>
  <storageSlotCount>0</storageSlotCount>
  <assignedStorageSlotCount>0</assignedStorageSlotCount> <!-- The number of storage slots assigned
```

```

to partitions and cleaning slots. -->
<ieSlotCount>0</ieSlotCount>
<assignedIeSlotCount>0</assignedIeSlotCount>
<driveCount>0</driveCount>
<assignedDriveCount>0</assignedDriveCount>
<moduleCount>0</moduleCount>
<towerCount>0</towerCount>
<parkingModules>true</parkingModules>
<cleaningSlotCount>0</cleaningSlotCount>
<cleaningMediaCount>0</cleaningMediaCount>
<ieAreaCount>2</ieAreaCount> <!-- The number of configured IE Areas, I3/i6 only -->
<systemMediaCount>0</systemMediaCount> <!-- The number of media owned by the System partition.
This is only supported on I3/i6. -->
</ns2:physicalLibraryResources>

```

## Figure 147: physicalLibrarySettings

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:physicalLibrarySettings xmlns:ns2="http://automatedMediaLibrary/">
  <driveSerialNumberSpoofing>
    <enabled>true</enabled>
  </driveSerialNumberSpoofing>
  <autoInventory>
    <enabled>true</enabled>
  </autoInventory>
  <autoCalibration> <!-- Deprecated in i12.X -->
    <enabled>true</enabled>
  </autoCalibration>
  <autoConfiguration> <!-- Deprecated in i12.X -->
    <enabled>true</enabled>
  </autoConfiguration>
  <autoCleaning> <!-- Deprecated in i12.X, this is now provided on a partition basis
(aml/partitions/policy/driveCleaning) -->
    <enabled>true</enabled>
  </autoCleaning>
  <autoDriveUnload>
    <enabled>true</enabled>
  </autoDriveUnload>
  <extendedIe>
    <enabled>true</enabled>
  </extendedIe>
  <sendUsageStatistics>
    <interval>0</interval> <!-- 0(Disabled), 1(Monthly) and 2(Quarterly) -->
  </sendUsageStatistics>
  <healthCheck>
    <railInterval>0</railInterval> <!-- 0-180 days (0 to disable) -->
    <robotInterval>0</robotInterval> <!-- 0-180 days (0 to disable) -->
    <towerInterval>0</towerInterval> <!-- 0-180 days (0 to disable) -->
  </healthCheck>
  <aisleLights> <!-- Set the duration for aisle lighting 0 (off), 30 minutes or 60 minutes -->
    <interval>0</interval>
  </aisleLights>
  <webCamera> <!-- The IP of the host where the Camera (i6000) Application is running -->
    <ipAddress>ipAddress</ipAddress>
  </webCamera>
  <snmp>

```

```

    <communityString>communityString</communityString>
    <enabled>true</enabled>
    <enableVersion1And2>true</enableVersion1And2>
    <enableVersion3>true</enableVersion3> <!-- Not supported in i6k -->
    <enableAuthenticationTraps>true</enableAuthenticationTraps> <!-- Not supported in i6k -->
</snmp>
<smis>
    <enabled>true</enabled>
    <enableSecureSmis>true</enableSecureSmis>
</smis>
</ns2:physicalLibrarySettings>

```

### Figure 148: ping

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ping xmlns:ns2="http://automatedMediaLibrary/">
    <firmwareVersion>665Q.DS02401</firmwareVersion>
    <productName>Scalar i6000</productName> <!-- "Scalar i6000", "Scalar i3" or "Scalar i6" -->
    <serialNumber>273190048</serialNumber>
    <vendor>Vendor Name</vendor> <!-- "Quantum" -->
</ns2:ping>

```

### Figure 149: port

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:port xmlns:ns2="http://automatedMediaLibrary/">
    <id>Port 1, Port A, Left, Right ...</id>
    <type>1</type> <!-- 1(SCSI), 2(Fibre), 3(SAS) -->
    <address>WWPN</address>
    <topology>
        <actual>2</actual> <!-- -1 and 0 (N/A), 1(Loop Preferred "LN"), 2(P2P/Fabric "N"), 3(Loop "L"),
        4(P2P/Fabric preferred "NL", only supported on i3/i6) -->
        <requested>2</requested> <!-- -1 and 0 (N/A), 1(Loop Preferred "LN"), 2(P2P/Fabric "N"), 3(Loop
        "L"), 4(P2P/Fabric preferred "NL", only supported on i3/i6) -->
    </topology>
    <loopId>0</loopId>
    <speed>
        <actual>4</actual> <!-- -1(N/A), 0(Auto), 1(1Gb/s), 2(2Gb/s), 4(4Gb/s), 8(8Gb/s) -->
        <requested>4</requested>
    </speed>
    <loop> <!-- The loop ID of the drive. This is intended to replace the loopId
    element, since i3/i6 libraries support both 'requested' and 'actual' loop ID's. For i6k if this loop element is
    not requested then the loopId element will be used. -->
        <actual>0</actual> <!-- This will report 0-126. On the i6k 0 and 126 indicates soft (which is
        equivalent to auto), on i3/i6, 126 indicates soft. On i6k we report -1 if we cannot determine the ID -->
        <requested>0</requested> <!-- For i6k 0 and 126 indicate soft and for i3/i6, 126 indicates soft. All
        other values indicate hard (user set) loop ID's. On i6k we report -1 if we cannot determine the ID. -->
    </loop>
    <status>0</status> <!-- 0(N/A), 1(Down), 2(Active), 4(Passive) -->
</ns2:port>

```

### Figure 150: RASGroupStatusList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASGroupStatusList xmlns:ns2="http://automatedMediaLibrary/">

```

```

    </RASGroupStatus> A list of RASGroupStatus objects
</ns2:RASGroupStatusList>

```

### Figure 151: RASGroupStatus

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASGroupStatus xmlns:ns2="http://automatedMediaLibrary/">
  <group>1</group> <!--
0 (All), i6k and I3/i6, the i6k uses group 0 to represent the overall library status
1 (Connectivity), i6k only
2 (Control), i6k and I3/i6
3 (Media), i6k and I3/i6
4 (Drives), i6k and I3/i6
5 (Power), i6k only
6 (Robotics) i6k only
7 (Library) I3/i6 only
.-->
  <status>1</status> <!-- 1 (Good), 2 (Failed), 3 (Degraded), 4 (Warning), 5 (Informational), 6
(Unknown), 7 (Invalid), 8(Attention) -->
</ns2:RASGroupStatus>

```

### Figure 152: RASReportList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASReportList xmlns:ns2="http://automatedMediaLibrary/">
  </RASReport> A list of RASReport objects
</ns2:RASReportList>

```

### Figure 153: RASReport

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASReport xmlns:ns2="http://automatedMediaLibrary/">
  <reportId>42</reportId>
  <postedDate>2013-05-29 13:17:36 +0000</postedDate>
  <duplicates>0</duplicates>
  </RASGroupStatus> <!-- See Figure 151: RASGroupStatus -->
  <eventCode>09_09_18_00_00000000</eventCode>
  <modifier>0x0</modifier>
  <summary>Drive [1, 1, 1, 12, 1, 1] lost network link, will be unable to reconfigure</summary>
  <description>Control of Tape Drive at [1,1,1,12,1,1] communication has failed</description>
  <headReport>41</headReport>
  <keyReportId>0</keyReportId>
  <serialNumber>GB120401FD</serialNumber>
  <repairLink>09_09_18_hm</repairLink>
</ns2:RASReport>

```

### Figure 154: RASTicketReports

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASTicketReports xmlns:ns2="http://automatedMediaLibrary/">
  <ticketId>15</ticketId>
  </RASReportList> A RASReportList object, see Figure 152: RASReportList
</ns2:RASTicketReports>

```

**Figure 155: RASTicketList**

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASTicketList xmlns:ns2="http://automatedMediaLibrary/">
  <RASTicket>
    <ticketId>5</ticketId>
    <name></name>
    <description>Control of Tape Drive at [1,1,1,10,1,1] communication has failed</description>
    <closed>1970-01-01 00:00:00 +0000</closed>
    <opened>2013-05-16 20:36:43 +0000</opened>
    <eventCode>0</eventCode>
    <groupStatus>
      <group>4</group>
      <status>2</status>
    </groupStatus>
    <RASTicketState>
      <state>2</state>
    </RASTicketState>
    <duplicates>0</duplicates>
    <lastUpdate>2013-06-11 10:20:05 +0000</lastUpdate>
    <serialNumber>HU1231PJTT</serialNumber>
    <repairLink>09_09_18_hm</repairLink>
    <keyReportId>17</keyReportId>
    <rasTicketDetails/>
  </RASTicket>
</ns2:RASTicketList>
```

**Figure 156: RASTicket**

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASTicket xmlns:ns2="http://automatedMediaLibrary/">
  <ticketId>5</ticketId>
  <name></name>
  <description>Control of Tape Drive at [1,1,1,10,1,1] communication has failed</description>
  <closed>1970-01-01 00:00:00 +0000</closed>
  <opened>2013-05-16 20:36:43 +0000</opened>
  <eventCode>0</eventCode>
  </groupStatus> <!-- RASGroupStatus object, see Figure 151: RASGroupStatus -->
  </RASTicketState> <!-- A RASTicketState object -->
  <duplicates>0</duplicates>
  <lastUpdate>2013-06-11 10:20:05 +0000</lastUpdate>
  <serialNumber>HU1231PJTT</serialNumber>
  <repairLink>09_09_18_hm</repairLink>
  <keyReportId>17</keyReportId>
  <serviceUser>false</serviceUser> <!-- Was the service user logged in when the ticket was opened.
Scalar i6k only, added in release 751 -->
  <rasTicketDetails>
    <rasTicketDetails/> <!-- 1-n rasTicketDetails, basically a list of strings -->
  </rasTicketDetails>
  <severity>1</severity> <-- 1(critical), 2(degraded), 3(warning), 4(attention) and 5(informational)
  <fruLocation>1,1,1,1,3</fruLocation> <!-- Where the component is location in the library. Note:
This is only supported on the i6k -->
</ns2:RASTicket>
```

## Figure 157: RASTicketState

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASTicketState xmlns:ns2="http://automatedMediaLibrary/">
  <state>5</state> <!-- 1 (New), 2 (Open), 3 (Suspended), 4 (Closed), 5 (Verified) -->
</ns2:RASTicketState>
```

## Figure 158: rasNotificationList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:rasNotificationList xmlns:ns2="http://automatedMediaLibrary/">
  </rasNotification> A list of rasNotification objects
</ns2:rasNotificationList>
```

## Figure 159: rasNotification

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:rasNotification xmlns:ns2="http://automatedMediaLibrary/">
  <id>1</id> <!-- This id is generated and is used to lookup a reportNotification object. Each
reportNotification gets a unique id. -->
  <enabled>true</enabled> <!-- Enable/Disable the notification, when disabled the notification will not be
sent -->
  <emailAddress>john.doe@acme.com</emailAddress> <!-- E-mail address -->
  <severity1>true</severity1> <!-- Send Severity 1 Tickets -->
  <severity2>true</severity2> <!-- Send Severity 2 Tickets -->
  <severity3>true</severity3> <!-- Send Severity 3 Tickets -->
  <severity4>true</severity4> <!-- Send Severity 4 Tickets -->
  <severity5>true</severity5> <!-- Send Severity 5 Tickets -->
  <includeSnapshot>false</includeSnapshot> <!-- Do we include a snapshot with the notification. This is
not supported on the i6k -->
  <lastSent>Date</lastSent> <!-- The last time the notification was sent -->
  <includeDriveLog>false</includeDriveLog> <!-- Do we include a drive log with the notification. This is
not supported on the i6k -->
  <includeResolution>false</includeResolution> <!-- Do we include a resolution with the notification. This
is not supported on the i6k -->

</ns2:rasNotification>
```

## Figure 160: reportList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:reportList xmlns:ns2="http://automatedMediaLibrary/">
  </report> A list of report objects
</ns2:reportList>
```

## Figure 161: report

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:report xmlns:ns2="http://automatedMediaLibrary/">
  <name>Drive Utilization</name> <!-- The report name -->
  <type>The Report Type</type>
<!--
1, "Drive Utilization",
2, "Media Integrity Analysis",
3, "Media Usage",
```

```

4, "Media Security",
5, "Cross Partition Media Moves",
6, "Tickets",
7, "LUN Mapping",
8, "Media Inventory",
9, "EKM Partition Activity",
10, "EKM Media Status",
11, "Login Activity",
12, "Verification Test",
13, "Library Configuration",
14, "Partition Utilization",
15, "Drive Cleaning",
16, "EDLM Scan Test",
17, "Blade Media",
18, "Blade Volume Group Capacity",
19, "Blade Media Count",
20, "Blade Configuration Record"
-->

```

<license>Advanced Reporting</license> <!-- Some reports required a license, if the report requires a license, then the license name will be reported. If it does not require a license, then this field will be null or empty -->

<licensed>true</licensed> <!-- If the report requires a license, the 'license' element is not null or empty, then this field will have indicated if the license is installed, true, or false if the required license is not installed. If the license element is null or empty, then you can ignore this element-->

<format>CSV</format> <!-- The format supported when the report is saved -->

<recordCount>123</recordCount> <!-- The number of records, or if TXT format -->

<template /> <!-- A list of reportTemplate objects, see Figure 166: reportTemplate -->

</ns2:report>

## Figure 162: reportCriteria

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

```
<ns2:reportCriteria xmlns:ns2="http://automatedMediaLibrary/">
```

<start>0</start> <!-- The start offset in the list of records, 0 is the default, the first record -->

<length>0</length> <!-- The number of records, you want to retrieve, 0 is default and means all records after the start offset -->

<period>7</period> <!-- The last number of days to report. If I want a report for the last week, this value would be 7. 0 is default and means report all records -->

<date>Query start date</date> <!-- At what date you want to start your query. The data returned will include all records that are equal to or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z" the Z (time zone) field will be ignored. -->

<partition>partition name</partition> <!-- Some reports can be filtered on partition name -->

<driveSerialNumber>serial number</driveSerialNumber> <!-- Some reports can be filtered on the drive physical serial number -->

<barcode>The media barcode</barcode> <!-- Some reports can be filtered on the media barcode-->

<state>1</state> <!-- Generic field used to filter on state, or overloaded to filter on some other field, must be > 0 -->

<type>1</type> <!-- Generic field used to filter on type, or overloaded to filter on some other field, must be > 0 -->

<id>1</id> <!-- Generic field used to filter on id, or overloaded to filter on some other field, must be > 0. This was added in version (i3/i6) -->

</ns2:reportCriteria>

## Figure 163: reportNotificationList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:reportNotificationList xmlns:ns2="http://automatedMediaLibrary/">
  <reportNotification/> A list of reportNotification objects, See Figure 164: reportNotification
</ns2:reportNotificationList>
```

## Figure 164: reportNotification

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:reportNotification xmlns:ns2="http://automatedMediaLibrary/">
  <id>4</id> <!-- This id is generated and is used to lookup a reportNotification object. Each
reportNotification gets a unique id. -->
  <enabled>true</enabled> <!-- Enable/Disable the notification, when disabled the notification will not be
sent -->
  <emailAddress>john.doe@company.com</emailAddress> <!-- The e-mail address where the
notification will be sent too -->
  <reportTemplateName>LoginActivity</reportTemplateName> <!-- The report template name, See
Figure 166: reportTemplate. -->
  <interval>
    <frequency>1</frequency> <!-- The frequency the report will be sent, valid values are 1 (Daily), 2
(Weekly), 3 (Monthly) and 4 (Quarterly) -->
    <dayOfWeek>4</dayOfWeek> <!-- The day of the week the report should be sent, 0 is Sunday, 6 is
Saturday -->
    <hourOfDay>0</hourOfDay> <!-- The hour of the day the report should be sent, 0 - 23 -->
  </interval>
</ns2:reportNotification>
```

## Figure 165: reportTemplateList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:reportTemplateList xmlns:ns2="http://automatedMediaLibrary/">
  <reportTemplate/> A list of reportTemplate objects, see Figure 166: reportTemplate
</ns2:reportTemplateList>
```

## Figure 166: reportTemplate

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:reportTemplate xmlns:ns2="http://automatedMediaLibrary/">
  <id>Template ID</id> <!-- Only used to lookup template -->
  <name>name</name> <!-- The name can only contain the following characters A-Z a-z 0-9 _ and
spaces. The maximum number of character allowed is 64 -->
  <reportType>1</reportType> <!-- See type element of Figure 161: report -->
  <reportCriteria/> <!-- A reportCriteria object Figure 162: reportCriteria -->
</ns2:reportTemplate>
```

## Figure 167: robotList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:robotList xmlns:ns2="http://automatedMediaLibrary/">
  <robot/> A list of 1 or 2 robot objects, see Figure 168: robot
</ns2:robotList>
```

## Figure 168: robot

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:robot xmlns:ns2="http://automatedMediaLibrary/">
  <name>name</name>
  <status>0</status>          <!-- 1(Active), 2(Passive), 3(Pending), 4(Failed), 5(N/A) -->
  <state>0</state>            <!-- 1(Varied On), 2(Varied Off) -->
  <serialNumber>serialNumber</serialNumber> <!-- Robot controller serial number -->
  <firmwareVersion>firmwareVersion</firmwareVersion>
  <parked>true</parked>
  <present>true</present>
  <generation>generation</generation>
</ns2:robot>
```

## Figure 169: segmentList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  </segment> <!-- A list of segment objects -->
</ns2:segmentList>
```

## Figure 170: segment

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segment xmlns:ns2="http://automatedMediaLibrary/">
  <coordinate/> <!-- See
Figure 23: coordinate -->
  <size>6</size>
  <owner>LL1</owner> <!-- The partition who owns the segment -->
  <configuredType>0</configuredType> <!-- Future configuration type option to allow IE to be
configured as storage -->
</ns2:segment>
```

## Figure 171: sensorList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:sensorList xmlns:ns2="http://automatedMediaLibrary/">
  </sensor> A list of sensor objects
</ns2:sensorList>
```

## Figure 172: sensor

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:sensor xmlns:ns2="http://automatedMediaLibrary/">
  <!-- All elements are strings -->
  <name>RCS FAN1</name>
  <type>Cooling</type>
  <status>Nominal</status>
  <value>5818</value>
  <unit>RPM</unit>
  <location>Library (LPC) Cooling Fan #1</location>
</ns2:sensor>
```

### Figure 173: serviceLogList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:serviceLogList xmlns:ns2="http://automatedMediaLibrary/">
  <serviceLog/> <!-- A list of serviceLog objects -->
</ns2:serviceLogList>
```

### Figure 174: serviceLog

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:serviceLog xmlns:ns2="http://automatedMediaLibrary/">
  <name>vt_2U31090031_2015-06-18_17.21.48.log</name> <!-- The name of the log -->
  <type>1</type> <!-- 0(N/A), 1(VT), 2(SCSI), 3(GET/PUT Statistics) -->
  <date>2015-06-18 17:22:59</date> <!-- The date the log file was last modified -->
</ns2:serviceLog>
```

### Figure 175: shutdownTask

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:shutdownTask xmlns:ns2="http://automatedMediaLibrary/">
  <reboot>false</reboot> <!-- Set to true if library should reboot, otherwise library needs to be physically
power cycled -->
</ns2:shutdownTask>
```

### Figure 176: trapNotificationList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:trapNotificationList xmlns:ns2="http://automatedMediaLibrary/">
  <trapNotification/> A list of trapNotification objects.
</ns2:trapNotificationList>
```

### Figure 177: trapNotification

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:trapNotification xmlns:ns2="http://automatedMediaLibrary/">
  <id>Unique ID</id> <!-- Used to lookup object -->
  <host>10.20.1.100</host> <!-- The host or IP of the host that will receive the trap -->
  <port>162</port>
  <transportType>1</transportType> <!-- 1(UDP IPv4), 2(UDP IPv6), 3(TCP IPv4), 4(TCP IPv6) Not
supported in i6k -->
  <communityString>publicCmtyStr</communityString> <!-- Not required for Quantum branded i6k
libraries -->
  <version>1</version> <!-- 1(SNMPv1), 2(SNMPv2c), 3(SNMPv3) Not supported in i6k or i3/i6 -->
</ns2:trapNotification>
```

### Figure 178: tapeAlertList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:tapeAlertList xmlns:ns2="http://automatedMediaLibrary/">
  <tapeAlert/> A list of tapeAlert objects
</ns2:tapeAlertList>
```

## Figure 179: tapeAlert

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:tapeAlert xmlns:ns2="http://automatedMediaLibrary/">
  <driveSerialNumber>driveSerialNumber</driveSerialNumber>
  <barcode>barcode</barcode>
  <tapeAlert>0</tapeAlert>
  <dateTime>2001-12-31T12:00:00</dateTime>
  <errorCode>445</errorCode>
</ns2:tapeAlert>
```

## Figure 180: taskList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:taskList xmlns:ns2="http://automatedMediaLibrary/">
  <task/> A list of task objects
</ns2:taskList>
```

## Figure 181: task

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:task xmlns:ns2="http://automatedMediaLibrary/">
  <id>91</id> <!-- A unique task id number, used to look up a particular task -->
  <componentId>LL1</componentId> <!-- Drive serial number, partition name, blade coordinate, etc...-
-->
  <type>1</type>
<!--
0(All types),
1 (Inventory),
2 (Library Shutdown),
3 (Library Reboot),
4 (Identify Drive),
5 (Drive Clean),
6 (Power Cycle FC IO Blade),
7 (Reset FC IO Blade),
8 (Identify FC IO Blade),
9 (Identify Ethernet Expansion Blade),
10 (Auto Import Media),
11 (Generate Command History Logs)
12 (VT, Start Test Diagnostic Session (i6k and I3/i6))
13 (VT, Finish Test Diagnostic Session (i6k and I3/i6))
14 (VT, Robot Accessor Test (i6k))
15 (VT, Robot Picker Test (i6k))
16 (VT, Robot Assembly Test (i6k and I3/i6))
17 (VT, IE Station Assembly Test (i6k))
18 (VT, Tower Assembly Test (i6k))
19 (VT, Tower Scanner Test (i6k))
20 (VT, Robot Scanner Test (i6k))
21 (VT, Library Get Put Test (i6k))
22 (VT, Drive Assembly Test (i6k and I3/i6))
23 (VT, Magazine Test (I3/i6))
24 (IVT, Full Installation Verification Test (i6k and I3/i6))
27 (VT, Library Alignment Test (i6k))
-->
  <opened>2013-12-16 17:17:55 +0000</opened> <!-- When the task was started -->
```

```

        <closed>2013-12-16 17:18:06 +0000</closed> <!-- When the task completed -->
        <state>5</state>
    <!--
    0 (Unknown)
    1 (In Progress)
    2 (Pending)
    3 (Stopped)
    4 (Terminated)
    5 (Completed)
-->
    <status>1</status>
<!--
0 (Unknown)
1 (Success)
2 (Warning)
3 (Invalid)
4 (Incomplete)
5 (Failed)
-->
    <description>Inventory - Start Element: 4096, element count: 20, offline: true</description>
    <sessionId>15</sessionId>
</ns2:task>

```

**Figure 182: timeZoneIds**

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:timeZoneIds xmlns:ns2="http://automatedMediaLibrary/">
    <ID>(GMT-12:00) Etc/GMT+12 (GMT-12:00)</ID>
    <ID>(GMT-11:00) Etc/GMT+11 (GMT-11:00)</ID>
    <ID>(GMT+13:00) MIT (WSDT)</ID>
    <ID>(GMT+13:00) Pacific/Apia (WSDT)</ID>
    <ID>(GMT-11:00) Pacific/Midway (SDT)</ID>
    <ID>(GMT-11:00) Pacific/Niue (NUST)</ID>
    <ID>(GMT-11:00) Pacific/Pago_Pago (SDT)</ID>
    <ID>(GMT-11:00) Pacific/Samoa (SDT)</ID>
    <ID>(GMT-11:00) US/Samoa (SDT)</ID>
    <ID>(GMT-10:00) America/Adak (HADT)</ID>
    .....
</ns2:timeZoneIds>

```

**Figure 183: towerList**

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:towerList xmlns:ns2="http://automatedMediaLibrary/">
    <tower/> A list of tower objects, see Figure 184: tower
</ns2:tower>

```

**Figure 184: tower**

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:tower xmlns:ns2="http://automatedMediaLibrary/">
    <id>2</id> <!-- The tower ID -->
    <coordinate/> See
    Figure 23: coordinate
    <serialNumber>serialNumber</serialNumber> <!-- Tower controller serial number -->

```

```

<firmwareVersion>firmwareVersion</firmwareVersion>
<scannerPresent>true</scannerPresent>
<doorOpened>true</doorOpened>
<mode>0</mode>      <!-- 1(Online), 2(Offline) -->
<state>1</state>     <!-- 1(Varied On), 2(Varied Off) -->
<status>0</status>   <!-- 1(Not Present), 2(Failed), 3(Not Ready), 4(Initializing), 5(Ready) -->
</ns2:tower>

```

### Figure 185: userList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:userList xmlns:ns2="http://automatedMediaLibrary/">
  </user> A list of user objects
</ns2:userList>

```

### Figure 186: user

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:user xmlns:ns2="http://automatedMediaLibrary/">
  <name>JohnDoe</name>
  <password>The user's password</password> <!-- This is used when logging in and when changing the
user's password -->
  <role>1</role> <!-- -1(Ignore this field), 0 (Admin), 1 (User), 2 (Service), 3 (Guest)
  <partitionAccess>Test Partition</partitionAccess>
  <partitionAccess>Sales Partition</partitionAccess>
  <activeCount>0</activeCount>
  <ldap>false</ldap>
</ns2:user>

```

### Figure 187: userSessionList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:userSessionList xmlns:ns2="http://automatedMediaLibrary/">
  </userSession> A list of userSession objects
</ns2:userSessionList>

```

### Figure 188: userSession

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:userSession xmlns:ns2="http://automatedMediaLibrary/">
  <id>3</id>
  <loginTime>2013-01-10 14:43:29 -0700</loginTime>
  <name>johndoe</name>
  <role>1</role>
  <lastActivityTime>2013-01-10 14:43:29 -0700</lastActivityTime>
  <loginFrom>10.20.9.123</loginFrom>
</ns2:userSession>

```

### Figure 189: vtReportList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:vtReportList xmlns:ns2="http://automatedMediaLibrary/">
  <report>vt_2U31090031_2014-06-23_16.09.52</report> <!-- The report name -->
  <report>vt_2U31090031_2014-06-23_16.49.36</report>
</ns2:vtReportList>

```

## Figure 190: windowsBlade

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:windowsBlade xmlns:ns2="http://automatedMediaLibrary/">
  <blade/> <!-- See Figure 12: blade -->
  <ipAddress>10.60.166.130</ipAddress>
  <baseVersion>The blades base firmware version</baseVersion>
  <mode>1</mode>
  <!--
0(Unknown)
1(Online)
2(Offline)
-->
  <state>1</state>
  <!--
0(Unknown)
1(Not Ready)
2(Becoming Ready)
3(Ready)
-->
  <status>1</status>
  <!--
0(Unknown)
1(Good)
2(Invalid)
3(Missing)
4(Initializing)
-->
</ns2:windowsBlade>
```

## Figure 191: windowsBladeList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:windowsBladeList xmlns:ns2="http://automatedMediaLibrary/">
  <windowsBlade/> <!-- A list of windowsBlade objects -->
</ns2:windowsBladeList>
```

## Figure 192: WSResultCode

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:WSResultCode xmlns:ns2="http://automatedMediaLibrary/">
  <code>200</code> <!-- HTTP Status code -->
  <description>OK</description> <!-- A brief description of this code -->
  <summary>Operation Completed Successfully</summary> <!-- A summary of the result of the
operation -->
  <action>Upload library firmware</action> <!-- A description of the action/operation that was requested -
->
  <customCode>0</customCode> <!-- An optional custom code -->
</ns2:WSResultCode>
```

## 6.2 Scalar i6k WSResultCode Custom Codes

The Scalar i6k, i3 and i6 WSResultCode object contains a customCode element which may provide more information when an error occurs for any given Web Service request. On the Scalar i6k a customCode is only used when a Web Services request encounters an error, regardless of it being a client or server problem. The Scalar i3/i6 will always return a custom code, where custom code 0 means, "Operation completed successfully".

The following lists the codes and describes their meaning. If a customCode is not available, a value of 0 (zero) will be returned for the Scalar i6k.

**Table 397: Scalar i6k SCSI Custom Codes 10000 – 80000**

| ASC | ASCQ | Custom Code | Description                                                              |
|-----|------|-------------|--------------------------------------------------------------------------|
|     |      | 10001       | Reservation Conflict                                                     |
| 00h | 17h  | 10023       | Drive requests cleaning                                                  |
| 04h | 00h  | 11024       | Robotics not ready due to an unknown cause                               |
| 04h | 01h  | 11025       | Robotics are becoming ready                                              |
| 04h | 03h  | 11027       | Robotics not ready; manual intervention required                         |
| 04h | 83h  | 11155       | Robotics not ready; aisle power disabled                                 |
| 04h | 8Dh  | 11165       | Robotics not ready                                                       |
| 15h | 01h  | 15377       | Robotics positioning error                                               |
| 15h | 80h  | 15504       | Robotics dropped a cartridge                                             |
| 15h | 81h  | 15505       | Robotics could not pick a cartridge                                      |
| 15h | 83h  | 15507       | Robotics could not place a cartridge                                     |
| 15h | 84h  | 15508       | Move completed with cartridge Get recoveries                             |
| 15h | 85h  | 15509       | Move completed with cartridge Put recoveries                             |
| 15h | 86h  | 15510       | Move completed but cartridge was placed in alternate location            |
| 15h | 91h  | 15521       | Media stranded in picker                                                 |
| 15h | 92h  | 15522       | Media stranded in picker                                                 |
| 15h | 93h  | 15523       | Operation needs to be retried                                            |
| 1Ah | 00h  | 16656       | Logic error: Parameter list length error                                 |
| 20h | 00h  | 18192       | Logic error: Illegal OpCode in CDB                                       |
| 21h | 01h  | 18449       | Logic error: Invalid element address in CDB                              |
| 24h | 00h  | 19216       | Logic error: Invalid field in CDB                                        |
| 24h | 80h  | 19344       | Logic error: Attempt to write a read only buffer                         |
| 25h | 00h  | 19472       | Logic error: Illegal LUN                                                 |
| 26h | 00h  | 19728       | Logic error: Invalid field in Parameter List                             |
| 26h | 01h  | 19729       | Logic error: Parameter not supported                                     |
| 26h | 02h  | 19730       | Logic error: Parameter value invalid                                     |
| 26h | 80h  | 19856       | Logic error: Parameter data checksum failure                             |
| 26h | 81h  | 19857       | Logic error: Parameter value already in use                              |
| 28h | 00h  | 20240       | Robotics transitioned to ready state: Element status may have changed.   |
| 28h | 01h  | 20241       | Insert/Eject area opened and closed: I/E element status may have changed |

|     |     |       |                                                               |
|-----|-----|-------|---------------------------------------------------------------|
| 29h | 00h | 20496 | Power-on or reset occurred                                    |
| 29h | 01h | 20497 | Power on occurred                                             |
| 29h | 04h | 20500 | Internal reset occurred                                       |
| 29h | 81h | 20625 | Library reset into degraded mode of operation                 |
| 2Ah | 01h | 20753 | Mode parameters have been changed                             |
| 2Ah | 80h | 20880 | Library inventory completed                                   |
| 30h | 00h | 22288 | Incompatible medium installed                                 |
| 30h | 07h | 22295 | Cleaning failure                                              |
| 30h | 82h | 22418 | Drive cleaning operation complete                             |
| 30h | 90h | 22432 | Drive firmware update complete                                |
| 30h | 91h | 22433 | Drive firmware update failed                                  |
| 30h | 92h | 22434 | Invalid firmware image                                        |
| 3Bh | 0Dh | 25117 | Destination element is full                                   |
| 3Bh | 0Eh | 25118 | Source element is empty                                       |
| 3Bh | 12h | 25122 | Media magazine not installed                                  |
| 3Bh | 85h | 25237 | Logic Error: Destination of MOVE cannot be picker             |
| 3Bh | A0h | 25264 | Logic error: Media type does not match destination media type |
| 3Eh | 00h | 25872 | Robotics discovery/teach not complete                         |
| 3Eh | 03h | 25875 | Robotics self-test failed                                     |
| 3Fh | 01h | 26129 | New firmware loaded                                           |
| 3Fh | 04h | 26132 | Drive added                                                   |
| 3Fh | 80h | 26256 | EEPROM failed to erase                                        |
| 3Fh | 84h | 26260 | EEPROM program failure                                        |
| 3Fh | 90h | 26272 | Robotics status changed                                       |
| 3Fh | 91h | 26273 | Robotics access timer started                                 |
| 3Fh | 92h | 26274 | Robot replacement succeeded                                   |
| 3Fh | 93h | 26275 | Robot replacement failed                                      |
| 3Fh | 94h | 26276 | Replacement robot detected                                    |
| 40h | 80h | 26512 | Component failure                                             |
| 40h | 91h | 26529 | Gripper failure                                               |
| 40h | A0h | 26544 | Robotics vertical axis motion failure                         |
| 40h | A1h | 26545 | Robotics vertical axis homing failure                         |
| 40h | B0h | 26560 | Robotics horizontal axis motion failure                       |
| 40h | B1h | 26561 | Robotics horizontal axis homing failure                       |
| 40h | C0h | 26576 | Robotics motion failure                                       |
| 40h | E0h | 26608 | Robotics power failure                                        |
| 44h | 00h | 27408 | Internal logic failure                                        |
| 44h | 81h | 27537 | Drive communication not established                           |
| 44h | 82h | 27538 | Drive communication lost                                      |
| 44h | 83h | 27539 | Drive powered off                                             |
| 4Ch | 00h | 29456 | Robotics discovery/teach failure                              |
| 53h | 00h | 31248 | Drive did not load or unload a tape cartridge                 |
| 53h | 01h | 31249 | A drive did not unload a tape cartridge                       |
| 53h | 02h | 31250 | A drive is preventing media removal                           |
| 53h | 80h | 31376 | Tape cartridge in I/E station not properly inserted           |
| 53h | 81h | 31377 | Insert/Eject station door is open                             |
| 53h | 82h | 31378 | I/E station lock failure                                      |

|     |     |       |                                                                                                       |
|-----|-----|-------|-------------------------------------------------------------------------------------------------------|
| 53h | 83h | 31379 | I/E station unlock failure                                                                            |
| 53h | 84h | 31380 | Medium in drive is unloaded and robot accessible                                                      |
| 5Dh | 00h | 33808 | Tape Alert reported or failure prediction threshold exceeded                                          |
| 83h | 00h | 43536 | Barcode label too short or too long                                                                   |
| 83h | 01h | 43537 | Cannot read a barcode label due to scanner problem                                                    |
| 83h | 02h | 43538 | Barcode label questionable                                                                            |
| 83h | 03h | 43539 | Cell status and barcode label questionable                                                            |
| 83h | 04h | 43540 | Drive not installed                                                                                   |
| 83h | 05h | 43541 | Drive varied off and not accessible for library operations                                            |
| 83h | 06h | 43542 | Element contained within an offline tower or I/E station and is not accessible for library operations |
| 83h | 07h | 43543 | Tower is offline                                                                                      |
| 83h | 08h | 43544 | Tower transitioned to online                                                                          |
| 83h | 09h | 43545 | Drive is offline                                                                                      |
| 83h | 0Ah | 43546 | Drive transitioned to online                                                                          |
| 83h | 0Bh | 43547 | Drive enabled library managed encryption                                                              |
| 83h | 0Ch | 43548 | Drive enabled application managed encryption                                                          |
| 83h | 0Dh | 43549 | Drive assigned valid Ethernet IP address                                                              |
| 83h | 0Eh | 43550 | Drive disabled encryption                                                                             |

**Table 398: i6/i3 Custom Codes**

| Code | Supported | Description                                                                                                                                                                                                                                                                                                                                                     |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0    | i3/i6     | Operation completed successfully.                                                                                                                                                                                                                                                                                                                               |
| 1    | i3/i6     | Resource successfully created.                                                                                                                                                                                                                                                                                                                                  |
| 2    | i3/i6     | Operation to be started.                                                                                                                                                                                                                                                                                                                                        |
| 3    | i3/i6     | The URI is correct, but the functionality specified is not supported by the library. The summary will include the resource as the request method and URI if it is not applicable to either Scalar i3 or Scalar i6. If it is not applicable to Scalar i3, resource will be the functionality. Library type may be 'Scalar i3' or 'Scalar i3/i6'.                 |
| 100  | i3/i6     | The functionality requested by this method and URI is not yet implemented in Scalar i3/i6.                                                                                                                                                                                                                                                                      |
| 101  | i3/i6     | Unable to connect to database.                                                                                                                                                                                                                                                                                                                                  |
| 110  | i3/i6     | The request method type was invalid for the URI. Comma delimited, valid method types ('GET', 'POST', 'PUT', 'DELETE') will be included in the summary.                                                                                                                                                                                                          |
| 120  | i3/i6     | The URI is invalid and included malformed syntax. It could be caused by a typo, or an invalid combination of path resource parameters. The summary attempts to identify which part of the URI is problematic. It will include the URI resource that is undefined and for which expected resource. In some cases, the expected resource is a user defined value. |
| 121  | i3/i6     | The URI is invalid. The URI path is incomplete and additional resource parameter(s) are required. The summary will include the possible resource parameters (comma delimited) for the URI received.                                                                                                                                                             |
| 122  | i3/i6     | The URI is invalid and the web services cannot determine the error.                                                                                                                                                                                                                                                                                             |

|     |       |                                                                                                                                                                                                                                                                                                                      |
|-----|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |       | This error currently occurs only on POST device blade LTFS reports requests. The summary will include the method and resource.                                                                                                                                                                                       |
| 123 | i3/i6 | The web services cannot process the request, because the Content-Type header in the request message is invalid for the method and URI. The type header expected will be included in the summary ('application/json', 'application/xml', etc.)                                                                        |
| 125 | i3/i6 | An invalid data object was received in the request message data. Generally, this indicates the data object is missing required elements or the combination of elements is not valid. The summary will include an indication of the error.                                                                            |
| 126 | i3/i6 | The request message for this method and URI requires data and none was received.                                                                                                                                                                                                                                     |
| 127 | i3/i6 | An invalid query string was given on the URI. Generally, this is indicative of a problem with the number of query parameters. The error in the summary will indicate the problem: too many query parameters, too few, parameters used together that are mutually exclusive, etc.                                     |
| 128 | i3/i6 | A URI query string parameter was found which is not valid for this method and URI. The invalid parameter and the expected parameters are included in the summary.                                                                                                                                                    |
| 129 | i3/i6 | A value given for a URI query string parameter was invalid. The value may be undefined or out of range. The invalid value and the parameter are included in the summary.                                                                                                                                             |
| 131 | i3/i6 | The request data contained invalid XML. The summary will include the error found.                                                                                                                                                                                                                                    |
| 132 | i3/i6 | The request data contained invalid JSON. The summary will include the error found.                                                                                                                                                                                                                                   |
| 133 | i3/i6 | The root node in the XML request data was invalid. The received and expected tags are included in the summary.                                                                                                                                                                                                       |
| 135 | i3/i6 | The operation requested for a user resource was invalid. This indicates the user specified is a protected account (i.e. service or admin). The summary includes the operation attempted and the user name.                                                                                                           |
| 136 | i3/i6 | The partition specified in the request is invalid for the operation. The partition name and the reason the partition is invalid will be included in the summary.                                                                                                                                                     |
| 137 | i3/i6 | The operation could not be completed because either no control path has been configured for the partition or the control path drive is varied off.                                                                                                                                                                   |
| 139 | i3/i6 | The drive included in the request was not valid for the operation. Generally, this indicates the drive was in the wrong state for the operation requested. The summary will indicate the reason the drive is invalid.                                                                                                |
| 141 | i3/i6 | Date and time values may not be updated with NTP enabled.                                                                                                                                                                                                                                                            |
| 144 | i3/i6 | Server values may not be updated with NTP disabled.                                                                                                                                                                                                                                                                  |
| 147 | i3/i6 | A data value included in the request data failed validation. Typically, this error is returned to indicate a value that is out of range, is incorrectly formatted, or is not defined for the element. The summary will include the element name and either the expected value(s) or the reason the value is invalid. |
| 148 | i3/i6 | The user's role does not have permission for this functionality or the user role has not been granted access to the partition. The operation                                                                                                                                                                         |

|     |       |                                                                                                                                                                                                                                                    |
|-----|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |       | will be included in the summary.                                                                                                                                                                                                                   |
| 149 | i3/i6 | Either an invalid coordinate object was received, or the coordinate provided is of the wrong type for the operation. The summary will indicate the error and may include the type of coordinate.                                                   |
| 153 | i3/i6 | An email address included in the request data is invalid. The e-mail address will be included in the summary.                                                                                                                                      |
| 154 | i3/i6 | The operation failed due to a capacity overflow error. The library encountered an error and was unable to process the request. If additional information is available for the error, it will be included in the summary.                           |
| 155 | i3/i6 | The operation failed. If there is a reason available to the web services, it will be included in the summary.                                                                                                                                      |
| 160 | i3/i6 | Close RAS ticket failed. Tickets must be in an open state to be closed. The id of the ticket is included in the summary.                                                                                                                           |
| 164 | i3/i6 | A filter has been specified that is not defined by the report type. The reason will be included in the summary.                                                                                                                                    |
| 166 | i3/i6 | The control path drive specified for the operation is invalid. The drive's serial number and the reason the drive is invalid will be included in the summary.                                                                                      |
| 168 | i3/i6 | The data object in the request message data included an unknown data element. The element name will be included in the summary.                                                                                                                    |
| 169 | i3/i6 | The IP address given in the request data was invalid.                                                                                                                                                                                              |
| 171 | i3/i6 | On a physicalLibrary or network setting update, a setting failed to update. The failed setting will be included in the summary. If the web services have any additional information on the failure it will be included in the summary in brackets. |
| 172 | i3/i6 | A resource (partition, user, etc.) could not be created because a resource with the same identifier already exists. The resource and the resource's identifier will be included in the summary.                                                    |
| 173 | i3/i6 | The request was attempting to delete or test one of the protected system email addresses. The summary will include the operation and the email address.                                                                                            |
| 175 | i3/i6 | The drive log was unable to be pulled. The summary will include the drive serial number and the reason returned by the library.                                                                                                                    |
| 177 | i3/i6 | The certificates uploaded were not as expected and could not be installed. The reason will be included in the summary.                                                                                                                             |
| 178 | i3/i6 | The encryption certificate install failed. The summary will include the filename and the reason for the failure.                                                                                                                                   |
| 184 | i3/i6 | The scratch slot received was not valid for the test. Either the slot specified was invalid, or the slot was empty. The summary will include the reason.                                                                                           |
| 185 | i3/i6 | An EKM configuration already exists.                                                                                                                                                                                                               |
| 186 | i3/i6 | The server type is not configured.                                                                                                                                                                                                                 |
| 187 | i3/i6 | No encryption certificates are installed for the currently configured encryption key server type.                                                                                                                                                  |
| 188 | i3/i6 | One or more encryption certificates for the currently configured encryption key server type has expired.                                                                                                                                           |
| 189 | i3/i6 | The operation requested requires the partition to be offline. The operation will be included in the summary.                                                                                                                                       |
| 190 | i3/i6 | On an update of an EKM policy, the servers could not be configured.                                                                                                                                                                                |

|     |       |                                                                                                                                                                                                                                                                                                                  |
|-----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |       | The reason is optional and will only be included in the summary for SKM servers. No reason is included for KMIP – the reason should be available in a RAS Ticket.                                                                                                                                                |
| 191 | i3/i6 | The request failed because one or more drives were loaded. The summary will include the operation that failed and a comma delimited list of serial numbers of the loaded drives.                                                                                                                                 |
| 192 | i3/i6 | The drive firmware upgrade failed for one or more drives. The summary will include a comma delimited list of drive serial numbers and the library error code.                                                                                                                                                    |
| 193 | i3/i6 | Key file not found for CSR.                                                                                                                                                                                                                                                                                      |
| 194 | i3/i6 | The file uploaded was not a valid certificate file. The filename will be included in the summary.                                                                                                                                                                                                                |
| 195 | i3/i6 | The certificate does not match the private key.                                                                                                                                                                                                                                                                  |
| 196 | i3/i6 | The certificate date on the uploaded file was invalid. The summary will indicate whether the start or end date is invalid and the date value of the certificate.                                                                                                                                                 |
| 197 | i3/i6 | On an update of an EKM policy, the SKM servers could not be configured. The servers were not available.                                                                                                                                                                                                          |
| 198 | i3/i6 | The request failed due to the configuration of the drives. The operation (add drive/remove drive) and the reason will be included in the summary. If a drive is not connected to an LTFS partition, it may not be added to the partition. If the drive is connected to an LTFS partition, it may not be removed. |
| 200 | i3/i6 | The request failed because the library is not ready. The operation may be included in the summary.                                                                                                                                                                                                               |
| 201 | i3/i6 | The request cannot be processed until the library has completed initialization. The summary will include the operation that failed.                                                                                                                                                                              |
| 202 | i3/i6 | The server IP address or host name failed validation. The invalid value will be included in the summary.                                                                                                                                                                                                         |
| 203 | i3/i6 | Partitions are configured with this server type, unable to delete.                                                                                                                                                                                                                                               |
| 204 | i3/i6 | CSR was unable to be generated.                                                                                                                                                                                                                                                                                  |
| 205 | i3/i6 | The request failed due to a configuration error. The operation and the reason for the failure will be included in the summary.                                                                                                                                                                                   |
| 206 | i3/i6 | The request failed due to a configuration error. The operation and the reason for the failure will be included in the summary.                                                                                                                                                                                   |
| 208 | i3/i6 | The e-mail server is not configured.                                                                                                                                                                                                                                                                             |
| 209 | i3/i6 | The diagnostic test was unable to be started while one was in progress.                                                                                                                                                                                                                                          |
| 210 | i3/i6 | An LDAP test failed verification. The reason may be included in the summary if available to the web services.                                                                                                                                                                                                    |
| 211 | i3/i6 | The file exceeded the maximum size allowed by the e-mail server.                                                                                                                                                                                                                                                 |
| 212 | i3/i6 | The e-mail failed with an email server error. If a server error is available to the web services, it will be included in the summary.                                                                                                                                                                            |
| 213 | i3/i6 | The e-mail server failed to send the e-mail and returned an error indicating it was due to the email address. If a server error is available to the web services, it will be included in the summary.                                                                                                            |
| 215 | i3/i6 | An update to the number of IE slots failed. The library error is included in the summary.                                                                                                                                                                                                                        |
| 216 | i3/i6 | This is returned on operations that consume licenses. The library may be licensed for the functionality, but the number of unused licenses is not sufficient to perform the operation. The summary may include the                                                                                               |

|     |       |                                                                                                                                                                                                                                                                                                                                                            |
|-----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |       | type of license.                                                                                                                                                                                                                                                                                                                                           |
| 217 | i3/i6 | Server configuration may not be changed while partitions have LME enabled.                                                                                                                                                                                                                                                                                 |
| 218 | i3/i6 | The operation failed because the drive is currently unavailable. The drive may not be present, or it may still be initializing. The serial number will be included in the summary.                                                                                                                                                                         |
| 219 | i3/i6 | The media specified in the request is not valid for the operation. The reason will be included in the summary.                                                                                                                                                                                                                                             |
| 220 | i3/i6 | A remove blade failed because the blade was still detected in the library. The blade type (Windows/LTFS) and the section number of the blade will be included in the summary.                                                                                                                                                                              |
| 221 | i3/i6 | The operation failed; the library returned a busy error. The library error message is included in the summary.                                                                                                                                                                                                                                             |
| 230 | i3/i6 | The uploaded file was invalid. The type of file (restore image, firmware file, etc.) will be included in the summary. Additional information about the failure, if available, will be also included.                                                                                                                                                       |
| 234 | i3/i6 | A file failed to upload to the library. The upload error and error code will be returned in the summary.                                                                                                                                                                                                                                                   |
| 251 | i3/i6 | The web services is unable to communicate with the blade. Either the blade is offline, initializing, or is in the process of going down.                                                                                                                                                                                                                   |
| 300 | i3/i6 | The resource specified by the URI was not found. The resource type (drive, media, partition, etc.) and the resource's identifier will be included in the summary. Note that this is returned only for resources identified by the URI or the query string on the URI. For example, /aml/partition/{partitionName} or /aml/media?partition={partitionName}. |
| 301 | i3/i6 | The web services encountered an unexpected error and was unable to process the request. The summary will indicate the error.                                                                                                                                                                                                                               |
| 302 | i3/i6 | The library encountered an error and was unable to complete the request. The reason will be included in the summary.                                                                                                                                                                                                                                       |
| 304 | i3/i6 | The park failed. The summary will include the error code from the park operation.                                                                                                                                                                                                                                                                          |
| 305 | i3/i6 | The request was an invalid for an IE slot. The reason will be included in the summary.                                                                                                                                                                                                                                                                     |
| 306 | i3/i6 | Cross partition moves are not supported.                                                                                                                                                                                                                                                                                                                   |
| 307 | i3/i6 | The move media request was invalid. Media may not be moved from a storage slot in an LTFS partition to an IE slot.                                                                                                                                                                                                                                         |
| 308 | i3/i6 | The request attempted to perform an invalid move. The reason will be included in the summary.                                                                                                                                                                                                                                                              |
| 400 | i3/i6 | Move media failed, cell obstructed.                                                                                                                                                                                                                                                                                                                        |
| 401 | i3/i6 | Move media failed, lost tape.                                                                                                                                                                                                                                                                                                                              |
| 402 | i3/i6 | Move media failed, a motion failure.                                                                                                                                                                                                                                                                                                                       |
| 403 | i3/i6 | Move media failed, picker obstructed.                                                                                                                                                                                                                                                                                                                      |
| 404 | i3/i6 | Move media failed, X-Axis failure.                                                                                                                                                                                                                                                                                                                         |
| 405 | i3/i6 | Move media failed, Y-Axis failure.                                                                                                                                                                                                                                                                                                                         |
| 406 | i3/i6 | Move media failed, Z-Axis failure.                                                                                                                                                                                                                                                                                                                         |
| 407 | i3/i6 | Move media failed, Z-Axis retract failure.                                                                                                                                                                                                                                                                                                                 |
| 408 | i3/i6 | Move media failed, Z-Axis extend failure.                                                                                                                                                                                                                                                                                                                  |
| 409 | i3/i6 | Move media failed, Theta-Axis failure                                                                                                                                                                                                                                                                                                                      |
| 410 | i3/i6 | Move media failed, X Motor fault.                                                                                                                                                                                                                                                                                                                          |
| 411 | i3/i6 | Move media failed, an inaccessible slot.                                                                                                                                                                                                                                                                                                                   |

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| 412 | i3/i6 | Move media failed, an inaccessible slot; the magazine is open.              |
| 413 | i3/i6 | Move media failed, an inaccessible slot; prevent media removal is enabled.  |
| 414 | i3/i6 | Move media failed, an inaccessible slot; IE is missing.                     |
| 415 | i3/i6 | Move media failed, an inaccessible slot; drive is missing.                  |
| 416 | i3/i6 | Move media failed, picker is full.                                          |
| 417 | i3/i6 | Move media failed, duplicate move.                                          |
| 418 | i3/i6 | Move media failed, recover slot is full.                                    |
| 419 | i3/i6 | Move media failed, Robotics Control System timeout.                         |
| 420 | i3/i6 | Move media failed, Robotics Control System device missing.                  |
| 421 | i3/i6 | Move media failed, X home failure.                                          |
| 422 | i3/i6 | Move media failed, Y home failure.                                          |
| 423 | i3/i6 | Move media failed, Z home failure.                                          |
| 424 | i3/i6 | Move media failed, Theta home failure.                                      |
| 425 | i3/i6 | Move media failed, picker unknown.                                          |
| 426 | i3/i6 | Move media failed, picker empty.                                            |
| 427 | i3/i6 | Move media failed, picker failure.                                          |
| 428 | i3/i6 | Move media failed, Y retry.                                                 |
| 429 | i3/i6 | Move media failed, no response from picker.                                 |
| 430 | i3/i6 | Move media failed, tape in drive.                                           |
| 431 | i3/i6 | Move media failed, no home slot.                                            |
| 432 | i3/i6 | Move media failed, cleaning required.                                       |
| 433 | i3/i6 | Move media failed, the destination slot is full.                            |
| 434 | i3/i6 | Move media failed, the source slot is empty.                                |
| 500 | i3/i6 | The operation failed. The library encountered an error (illegal state).     |
| 501 | i3/i6 | The operation failed. The library encountered an error (invalid opcode).    |
| 502 | i3/i6 | The operation failed. The library encountered an error (invalid parameter). |
| 503 | i3/i6 | The operation failed. The library encountered a hardware failure.           |
| 504 | i3/i6 | The operation failed. The library encountered a firmware error.             |
| 505 | i3/i6 | The operation failed. The library encountered a subcomponent failure.       |
| 506 | i3/i6 | The operation failed. The drive failed to load.                             |
| 507 | i3/i6 | The operation failed. The drive failed to unload.                           |
| 508 | i3/i6 | The operation failed. The IE lock failed.                                   |
| 509 | i3/i6 | The operation failed. The IE unlock failed.                                 |
| 510 | i3/i6 | The operation failed. The door is open.                                     |
| 511 | i3/i6 | The operation failed. The slot has not been assigned to any library.        |
| 512 | i3/i6 | The operation failed. The drive unload request was rejected by the drive    |
| 513 | i3/i6 | The operation failed. The slot ID is invalid.                               |
| 514 | i3/i6 | The operation failed, the source element is not ready.                      |
| 515 | i3/i6 | The operation failed, the destination is not ready.                         |
| 516 | i3/i6 | The operation failed. A Get failed.                                         |
| 517 | i3/i6 | The operation failed. A Put failed.                                         |
| 518 | i3/i6 | The operation failed. Robotics Control System checksum failed.              |
| 519 | i3/i6 | The operation failed. Robotics Control System is not ready.                 |
| 520 | i3/i6 | The operation failed. Robotics Control System not allowed.                  |
| 521 | i3/i6 | The operation failed. Calibration tab not found.                            |
| 522 | i3/i6 | The operation failed. Robotics Control System unexpected reset.             |
| 523 | i3/i6 | The operation failed. RST failed.                                           |

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| 524  | i3/i6 | The operation failed. Robotics Control System unlock failed.                                              |
| 525  | i3/i6 | The operation failed. There are not enough empty storage slots for bulk import.                           |
| 526  | i3/i6 | The operation failed. Not enough empty I/E slots available for requested operation.                       |
| 527  | i3/i6 | The operation failed. A limit check failed and prevented successful operation.                            |
| 528  | i3/i6 | The operation failed. The I/E slot requested is not owned by the system.                                  |
| 529  | i3/i6 | The operation failed. The scanner failed.                                                                 |
| 530  | i3/i6 | The operation failed. The door is open; unable to import/export media.                                    |
| 531  | i3/i6 | The operation failed. No barcode was detected.                                                            |
| 533  | i3/i6 | The operation failed. The shipping restraint is still installed.                                          |
| 534  | i3/i6 | The operation failed. The prevent media removal request is currently active for the drive and/or library. |
| 1000 | i3/i6 | The user account does not exist or the password is invalid.                                               |
| 1001 | i3/i6 | Unauthorized                                                                                              |
| 1004 | i3/i6 | Service in progress. The system is unavailable at this time.                                              |
| 1005 | i3/i6 | Already logged in on the web client -- Login not allowed.                                                 |
| 1006 | i3/i6 | Unable to communicate with the LDAP server.                                                               |
| 1025 | i3/i6 | A library software update is in progress. The system is unavailable at this time.                         |
| 1026 | i3/i6 | Unable to communicate with the LDAP server.                                                               |
| 1029 | i3/i6 | Diagnostics in progress. The system is unavailable at this time                                           |
| 1046 | i3/i6 | The account is locked due to the number of failed login attempts.                                         |
| 1099 | i3/i6 | The user account is disabled.                                                                             |