

Scalar Distributed Library Controller

Release Notes

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Version 2.5

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Scalar DLC Release Notes

These release notes cover the release of Scalar Distributed Library Controller¹, Version 2.5. If questions arise about any of these notes, contact the ADIC Technical Assistance Center (ATAC).

Pre-Installation Checklist

The Scalar DLC system requirements depend both on the library used and on the system solution as well. Ensure that the person who will install the software has the rights of local admin on all appropriate computers, or domain admin if the Scalar DLC must be installed under domain account. Check whether all the PCI slots and network adapters function correctly.

Collect the following parameters.

Parameter	Basic	Node 1	Node 2	Cluster
IP Address				
Net Mask				
DNS Server				
WINS				
PC Name				
Domain				
Domain ID				

Parameter	Value ^a
Scalar DLC user account: name	
Scalar DLC user account: password ^b	
Scalar DLC home folder	
Scalar DLC Database name	
Database compact schedule	
Database backup schedule	
Scalar DLC email address	
Contact email address	
SMTP (mail) server	
SMTP port	

a. The Scalar DLC parameters must be identical on both Cluster nodes.

b. The Scalar DLC name and password values must be set according to the corporate security standards.

1. Scalar Distributed Library Controller is a trademark of ADIC. Throughout the remainder of this document, we refer to the Scalar Distributed Library Controller software as Scalar Distributed Library Controller or as Scalar DLC.

Scalar DLC Solutions

According to the customer requirements, the Scalar DLC can provide a basic (standard) solution or a cluster (failover) solution. Select the solution and system configuration to match the library used by the customer.

Library	Scalar DLC Solution
Scalar 1000	Basic, Cluster
Scalar 10K	Basic, Cluster
Scalar 10K DA	Cluster (Basic is possible only as an exception)

Basic Solution

The Scalar DLC Basic (standard) solution keeps all Scalar DLC components (server, database) on a single PC that is connected to the library and both client(s). The client can work with the library when the Scalar DLC software is started and the library is online.

The Scalar DLC standard solution requires a single PC, the library, and the interface cables to provide the connection between PC (Scalar DLC host) and library.

For the requirements and installation instructions, refer to *Scalar DLC Installation Guide, Setting Up the Basic Solution* section.

Cluster Solution

The Scalar DLC Cluster (failover) solution is provided for clients using the Microsoft Cluster service. This solution allows the user to have a shared disk with the Scalar DLC database and two hosts containing the installed components of Scalar DLC software; for redundancy reasons, one host is online and the other is offline. If an error occurs and the online Scalar DLC host goes offline, the other host will immediately go online so the user will not notice there has been a problem with the host. The customer engineer can work on the problem host without stopping the work of Scalar DLC software.

The Scalar DLC failover solution requires two identical PCs, a RAID system, the library, and the interface cables to provide the connections between PCs (Scalar DLC hosts), RAID (shared database), and library.

For the requirements and installation instructions, refer to *Scalar DLC Installation Guide, "Setting Up the Cluster Solution"* section.

Hardware Requirements

The Scalar DLC system requirements are summarized in the following list:

Required:

- PC that meets Microsoft® PC 2000 System Design Guide Specifications (two identical PC are required for the Cluster solution):
 - 800 MHZ or faster Inter Pentium TM or equivalent CPU (minimum 4 free PC slots in chassis).
 - 256K L2 Cache.
 - 512 MB RAM.

- Dual matched Hard Drives (10 Gb or more).
- CD ROM.
- 3.5 in. Diskette Drive.
- 15 in. or greater SVGA Display.
- Standard keyboard & mouse.
- Ethernet 100 Mb adapter (network connection); two adapters are required for the Cluster solution.
- Microsoft Windows NT/Windows 2000 compliant LVD SCSI initiator adapter, RAID connection (only for the Cluster solution).
- Microsoft Windows NT/Windows 2000 compliant LVD/HVD SCSI initiator adapter (library connection).
- 1 ArrayMasStor ADTX RAID System.
- Cables, terminators, etc. to provide the connections between PC and library.

Optional:

- FC switch.
- SNC.
- SCSI/FC target HBA adapter(s) (Target mode).
Refer to table below for a description of SCSI and Fibre Channel adapters that could be used in the system.

Adapter	Type	Connection (external)	Max targets	Max SCSI ID	Max cable length, m
LSI 20860	SCSI	50-pin high density SE	7	7	5
LSI 8751D	SCSI	68-pin high density HVD	15	15	25
LSI 8951U	SCSI	68-pin very high density LVD/SE	15	15	12(LVD) 5(SE)
LSIU80LVD	SCSI	68-pin very high density LVD/SE	15	15	12(LVD) 5(SE)
QLA 2200	Fibre Channel	SC duplex multi-mode	31	127	-
QLA 23xx ^a	Fibre Channel	Small form factor multi-mode optic LC	31	127	-

a. 'xx' means 00, 10, 40, and 42. No other models are currently supported.

For the details refer to *Scalar DLC Installation Guide*, "Setting Up the Basic Solution" or "Setting Up the Cluster Solution" section.

Software Requirements

The Scalar DLC software is distributed as a Windows Installer installation database (file *ScalarDLC.msi*) and MSIEngine launcher (file *ScalarDLC.exe*). For the Scalar DLC software to operate properly, the following software components are required. These components will be installed as a part of Scalar DLC Installation process.

- Service Pack 4 for Microsoft Windows 2000.
- MS IE 6.0 or higher.
- Java (2) Runtime Environment, SE including Java Plug-in version 1.4.1_03.
- Apache Web Server.
- MSDE 2000 with Service Pack 3.

Before installing the Scalar DLC software, gather the following information and make sure the appropriate conditions are satisfied.

- Remove any currently installed versions of Windows NT or Windows 2000 prior to a new installation. The Scalar DLC installation setup requires a clean Windows 2000 installation.



NOTE: The Windows 2000 Advanced Server with a Cluster service support is required to install the Scalar DLC Cluster (failover) solution.

- Local admin rights are required to install the Scalar DLC software on the PC. Domain admin rights are required to install the Scalar DLC software on the domain user account.
- Collect the Scalar DLC software serial number. The serial number sticker is located on the front of the CD jewel case.
- Collect the **From** and **To** email addresses, the SMTP email server, and the SMTP port number in order to specify the correct customer and notification settings.

After installing the Scalar DLC software gather the following information and make sure the appropriate conditions are satisfied.

- The host name and network name of the PC where the Scalar DLC software is installed. They are required to launch the Scalar DLC Management GUI either as a browser applet or as a Java application.
 - The existing user password, or one of the following defaults to log on the Scalar DLC Management GUI:
 - Use the logon name “admin” and the password “password” in order to login as a Scalar DLC administrator.
 - Use the logon name “atac” and the password “guardian” in order to login as a Scalar DLC user with Customer Engineer (CE) rights.
 - Adobe Acrobat Reader software version 4.0 or later is required to view the online documentation in PDF format. If a copy of Acrobat Reader is not installed on the PC, visit <http://www.adobe.com/> and download the latest version of the Acrobat Reader.

Library Requirements

The library must be correctly set up for correct performance of the Scalar DLC system.

Operating mode

For the Scalar 1000 library, the following operating modes are supported:

- Native
- EXABYTE compatibility

- Storage Technology compatibility
- EMASS compatibility

For the Scalar 10K library only *native* mode is supported.

For the Scalar 10K DA (dual-aisle) library:

- Both medium changers (aisles) must run in *native* mode.
- Both medium changers (aisles) must operate in non-compressed mode.
- At the time of the first configuration, both medium changers (aisles) must be in the *online* state. *Ready* state is not required.



CAUTION: The Scalar DLC software may not work properly if the tape library operates in an unsupported mode.

Additionally, for the libraries with towers (Scalar 10K and Scalar 10K DA):

- At the time of the first configuration all towers (if any) must be in the *library (online)* state.

Firmware Version

Make certain the firmware version of each tape library meets the Scalar DLC requirements.

Tape Library	Required Firmware	Comment
Scalar 1000	3.0 or later	If the current version is 2.3 or earlier, contact ATAC. A customer engineer will upgrade the library with the appropriate firmware version.
Scalar 10K	130A or later	
Scalar 10K DA	200A or later (for both robots)	

Installation

The Scalar DLC is shipped as an appliance. That means the hardware is shipped with the software completely installed. When a re-installation is required, the necessary installation steps are described below.



CAUTION: When the Scalar DLC is upgraded from ver. 2.4 or below, the old version of Apache Web Server should be removed manually prior to the new installation. The Scalar DLC ver. 2.5 requires Apache 1.3.27.

To remove the old version of Apache, do the following.

Step 1 Stop Apache Service (Start > Programs > Apache Web Server > Stop as Service).

Step 2 Remove Apache (Add/Remove Programs > Apache Web Server > Uninstall).

To install the Scalar DLC software, load the Scalar DLC Installation CD, launch the Scalar DLC Installation from the Autostart page (for the details refer to *Scalar DLC Installation Guide*, “Scalar DLC CD-ROM Contents” section), and select “Scalar DLC.” The Scalar DLC installation can be also started manually: browse the CD for <%RootCD%>\Scalar_DLC\ScalarDLC.exe file and launch it.

The Scalar DLC installation procedure includes:

- copying all necessary files of the Scalar DLC system;
- creating the SDLC user account for the Scalar DLC system;
- registering the Scalar DLC system components on the PC under SDLC user account;
- creating and configuring the Scalar DLC database;
- configuring the WEB server to use with the Scalar DLC system;
- configuring the SNMP service to use with the Scalar DLC system;



NOTE:

If the SNMP system service is not installed, the Scalar DLC installation cannot install it. SNMP is a component of Windows 2000. The Scalar DLC however does not require this service and can be installed without it.

- checking, installing and configuring other required software (such as the NobleNet RPC components, SCSI Target Mode Driver, etc.);
- configuring and preparing the operating system and the Scalar DLC system to autostart during Windows 2000 startup.



NOTE:

To install the Scalar DLC software from a network image (Administrative mode), load the Scalar DLC software into a shared folder <SharedFolder> on a network using the command: `START "" /I /B ScalarDLC.exe /a.`

To install the Scalar DLC software from a network image onto a local Workstation, launch: *ScalarDLC.msi* from the network shared folder <SharedFolder>.

Installation steps

- Step 1** *Welcome to Scalar DLC installation wizard.*
This is the first dialog of the installation process. Click the **Next** button to continue.
- Step 2** *License agreement.*
The second dialog is the license agreement for the ADIC Scalar DLC software. Agree to the license and select **Yes** to continue.
- Step 3** *Checking the required components.*
The installation can proceed if all the required components are installed. Otherwise, launch the Installation to add all missing components or cancel the installation process.
- Step 4** *Customer information.*
The information about the customer is extracted from the OS settings on the current computer. Complete any missing information and continue.

Step 5 *User account creation, Component registration.*

The Scalar DLC system functions in the Windows 2000 OS under a specially created user account. It allows the system to access computers over the network and also enforces the system security.

The SDLC user account can be created on the *local* (built-in) domain of a standalone Windows 2000 or on a *network* domain on a Primary Domain Controller (PDC) if the computer belongs to an NT-compatible Domain.

Local administrator rights on the current computer are required to add a newly created account into the local **Administrators** group of the computer. The advanced user rights to *log on as a service* (to start the Scalar DLC Supervisor and NS Email Connection services) and to *log on as a batch job* (to launch the Scalar DLC DCOM Objects) are set. If the user account already exists in the system, the installation will only grant it the advanced rights and add the account to the local **Administrators** group on this PC.

If the Scalar DLC is set up on an NT-compatible domain, and the logon session is active using a BDC (Backup Domain Controller), the user might be required to wait while the PDC↔BDC synchronization completes. The user may ask the Domain Administrator to force the PDC↔BDC synchronization manually.

Press the **Check** button to determine the user's administrative rights on the specified server or domain. If the rights are *Admin* on the specified servers, the **Next** button will be displayed and the installation can continue.

If the creation/modification of the SDLC user account finishes successfully, the user will be able to continue the installation. If an error message on the next dialog is received, the user can return to the previous dialog, "*SDLC user account information*", to edit the information and repeat the operation.

Step 6 *Database information*

This step creates and configures data for the Scalar DLC database. The following editable parameters are present:

- a. The Database name. "SDLC" is the default name.



CAUTION: Do not use spaces in the database name.

- b. Configure the compact database job settings.
- c. Configure the backup database job settings.

Step 7 *Create or Keep*

If the SDLC database already exists and the database version matches the version of the current installation, the *Create new database* or *Use existing database* dialog will be displayed. If the *Use existing...* is selected, skip Step 8 and Step 9.

— or —

Create or Upgrade

If the SDLC database already exists and the database version does **not** match the version of the current installation, the *Create new database* or *Upgrade existing database* dialog will be displayed. If the *Upgrade existing...* is selected, skip Step 8 and Step 9.



NOTE:

The Upgrade mode is available only from Scalar DLC ver. 2.1, 2.2, 2.3, and 2.4. If the upgrade is not possible, then only a clean database can be created.

Step 8*Notification Settings*

Configure the settings for the Scalar DLC notification system and press the **Next** button.

Step 9*Setup type*

Chose either the *Typical* or *Custom* installation.

The *Typical* type installs and configures all of the system components into the default Scalar DLC home folder: <SystemDrive>\Program Files\ADIC\SDLC.

The *Custom* type allows the user to selectively install and configure the necessary components of the Scalar DLC. The Scalar DLC Components Configuration tree on this dialog represents the logical levels of the Scalar DLC and allows the user to select the required support for different types of Scalar DLC clients and libraries.

If the selection requires a hardware driver installation, the installation implements the required checking.

The *Custom* type also allows to select a home folder other than the default.



NOTE:

If the SCSI/FC Target drivers that are present on PC are older than the current Scalar DLC version, the installation will upgrade the drivers.

After the installation, the Scalar DLC installation folder will contain the following directory structures:

<SDLC home folder>

- |
- | - \BIN - the Scalar DLC binaries
- |
- | - \DB - the Scalar DLC database scripts
- |
- | - \Docs - the Scalar DLC Documentation
- |
- | - \Dump - the Scalar DLC 'Dump's' information
- |
- | - \Simulate - the Scalar DLC data for simulate mode
- |
- | - \WWW - the Scalar DLC web components

- |
- | - \Log - the Scalar DLC 'Logger service' information
- |
- | - \Trace - the Scalar DLC 'Trace' information
- |
- | - \com, \images, \jewel, \jsdk- the Scalar DLC internal folders
- |
- | - \helpindex - the Scalar DLC online help system

Step 10*Ready to install*

Press the **Install** button. Wait until the installation is finished.

- Step 11** *Customer registration form*
When the installation sequence is finished, the *Registration information* dialog pops up. Fill in the customer registration data.
The next step of the dialog allows the user to print the Customer Registration Form for fax or postal mail, or to send the Customer Registration Form by e-mail. This fields are saved in the Scalar DLC database. Checking the **On** checkbox launches the *License Client Wizard* and sends the license request.
Press the **Next** button.
- Step 12** Read the *Summary information*.
- Step 13** Answer **Yes** to immediately restart the PC. The Scalar DLC system will be ready after the restart.
- Step 14** Run the Web browser or use the **Scalar DLC Manager** shortcut to launch the Scalar DLC Management GUI.
If the Web browser is used, open the following URL: **http://ScalarDLC-machine-hostname/**. The Scalar DLC homepage should appear. Press **Launch Management GUI** button to start the applet-based Management GUI.
If the **Scalar DLC Manager** shortcut is used, begin by using the start menu (**Start > Programs > Scalar DLC**) to launch the application-based Management GUI.

Remove

To remove the Scalar DLC software, the local admin rights are required. Launch 'Add-Remove Programs > Scalar DLC' from the Windows 2000 Control Panel and select **Remove**. This calls up the Scalar DLC installation wizard, which removes the Scalar DLC system from the PC.

Modify

The user can add/remove components (DasRpc, ScsiTarget, HocTcip, etc.) that were added to the Scalar DLC kernel during installation. Local admin rights are required to do so.

To modify the Scalar DLC system, run the installation package or choose *Scalar DLC* from the **Add/Remove programs** dialog from the Win2000 Control Panel. When asked for installation type, select **Modify**.

Repair

The user can repair a damaged Scalar DLC installation. The damage may be caused by Scalar DLC user account troubles, database troubles, or because the PC name has been changed after the installation of Scalar DLC. Local admin rights are required to make the repairs (the domain admin rights are required to repair the Scalar DLC software installed under domain account).

To repair the Scalar DLC system, run the installation package or choose *Scalar DLC* from the **Add/Remove programs** dialog from the Windows 2000 Control Panel. When asked for installation type, select **Repair > Repair server**.

To repair the Scalar DLC database, run the installation package or choose *Scalar DLC* from the **Add/Remove programs** dialog from the Windows 2000 Control Panel. When asked for installation type, select **Repair > Repair database**. The database will be recreated as a clean one or upgraded to the correct version (if the current database is taken directly from Scalar DLC ver. 2.1, 2.2, 2.3, or 2.4).

Configuration

Use the Scalar DLC Management GUI with one of the following browsers:

- Internet Explorer 5.0 or higher version. The *Java Plug-In* is required. The user can install IE and open the Scalar DLC home-page (<http://ScalarDLC-machine-name>) after the Scalar DLC installation is completed. The plug-in (*j2re-1_4_2_001-win-i.exe*) then installs automatically.
- Netscape Navigator 6.0 or higher. The *Java Plug-In* is required. Install Netscape. Download the Java Plug-in from the Scalar DLC home-page (<http://ScalarDLC-machine-name>) after the Scalar DLC installation is completed. Launch the plug-in executable file (*j2re-1_4_2_001-win-i.exe*) manually, then start the Scalar DLC Management GUI.
- The Java application for a remote user can be downloaded from the Scalar DLC home-page (<http://ScalarDLC-machine-name>, *Tools and Utilities*) after the Scalar DLC installation has been done. Download the Java Plug-in. Launch the plug-in executable file (*j2re-1_4_2_001-win-i.exe*) manually, then start the Scalar DLC Management GUI.

To launch the Scalar DLC Management GUI, either type <http://ScalarDLC-machine-name> in your web browser or start it from **Start > Programs > Scalar DLC > Scalar DLC Manager**.

General Recommendations

- The current Scalar DLC installation package can be installed on the Windows 2000 operating system.
- ADIC strongly recommends that all customers use commercial virus protection software in conjunction with their Scalar DLC integrated controller.
- Set the Color palette of the Desktop to *more* than 256 colors.
- The remove process deletes all the Scalar DLC internal components, but not the Scalar DLC account name and password set up during the installation.
- Veritas Netbackup works only with drives allocated for the Netbackup Client. Veritas Netbackup does not support the DAS ACI interface call for drive allocation. An initial allocation can be made through the `dasadmin` command line utility or the Scalar DLC Management GUI.
- Before the Scalar DLC software can recognize a library by a Scan SCSI Bus, the library must be in the "Online/Ready" state. Placing the library online and then starting the Scalar DLC software service is strongly recommended.
- Close the Scalar DLC home page in the browser after exiting the Scalar DLC Java applet.
- Some actions may require a long completion time. The GUI does not indicate that the process is still running, giving the illusion that the system is "hung." To determine Scalar DLC activity, monitor the following processes: `Database.exe`, `java.exe`, and `sqlservr.exe`.
- After the upgrade from ver. 2.1 to ver. 2.5 the old SCSI Targets must be manually assigned to the existing SCSI Ports. When the Management GUI is first launched, the SCSI configuration pane appears. Assign SCSI Targets to the appropriate ports, then close the pane and restart Scalar DLC for the changes to take effect.
- After changing the ROBAR port for the ROBAR interface, restart both the Scalar DLC Management GUI and the Scalar DLC supervisor.

- After power cycling the Scalar 1000, reboot the PC so the Scalar DLC software recognizes the library.
- The Scalar DLC Cluster (failover) solution with fibre target(s) and Brocade switch requires a “zoned” connection.
- If the slot is marked as a home position of a cartridge that is currently in a drive or in the mailbox, it can be used as a move destination ONLY if no other client except the SCSI client can access this slot, and ONLY by the command executed from the client side. If the slot can be accessed by DAS or ROBAR client, the move command will fail.
- When using AHA-39160 for the SCSI communication with the library and/or RAID, you must install the latest patch of Initiator mode driver. This patch can be downloaded from the Adaptec web site (<http://adaptec.com>).



NOTE:

If a demo runs several thousands of commands through the Scalar DLC software per day, a daily backup and compress may not be adequate. In this event, schedule a higher rate for backup and compress. The backup and compress of the Scalar DLC Database should be scheduled with adequate time between each event to avoid conflicts.



NOTE:

The sharing of drives and I/E slots between the logical libraries may cause problems and will not properly work with SCSI Clients.

Post-Installation Checklist

After the Scalar DLC is installed and the required logical libraries are configured, for each DAS Client set the following parameters.

Parameter	Value
Name	
Library	
Client host name	
Respond When Eject Area Full	
Dismount Before Mount	
Supervisor	
Check I/E Area Names	
Avoid Media Identifier Contention	
Requires Drive Allocation	
Priority	
Sequence	
Wait insert before mount	
Command pause	
Drive pause	

After the Scalar DLC is installed and the required logical libraries are configured, for each SCSI/FC Client set the following parameters.

Parameter	Value
Name	
Library	
Port	
Target	
LUN	

After the Scalar DLC is installed and the required logical libraries are configured, for each ROBAR Client set the following parameters.

Parameter	Value
Port ^a	
Name	
Library	
Client Hostname	
Host Alias	
LUN	
Numeric system	
Clean pool prefix	
Dismount after clean	
Host is allowed to set the time	
Notification sender name	
Priority	
Sequence	
HCC Major	
ROBAR Port (for all ROBAR Clients)	

a. The Port value is the same for all ROBAR Clients.

Enhancements in Scalar DLC Ver. 2.5

Security: SSL

Use of SSL-encryption is implemented in the Scalar DLC Management GUI.

SCSI-3 Subset	The SCSI Target (configured in the Management GUI) may now support SCSI-3 command subset for all SCSI/FC clients configured to use this target.
SCSI Target: LUN	The SCSI Client may be configured for any LUN of the Target. The number of target and LUNs is limited only by the SCSI/FC HBA model.
New SCSI HBA (QLA 2340, QLA 2342, LSIU80LVD)	The use of QLA 2340, QLA 2342, LSIU80LVD adapters in Target mode is supported.
Installation: silent mode	The silent mode requests all information before launching the install engine. The user should wait until everything will be installed; no action is required.
Installation: autorun	The Autorun code is improved. Software packages are launched without additional confirming.
Complete DAS functionality support	All commands for DAS software are supported (including <i>shutdown</i> , <i>killamu</i> , and <i>switch</i>).
Define feature support	The Define feature for DAS Client (define drives and/or volserranges, used in number of DAS commands) is supported. The method for configuration of defined range is implemented in the Management GUI.
Management GUI: logical library creation	A more flexible way to create logical libraries (by the robots, by media type) media pools and mailboxes is implemented.
Management GUI: partitioning	The default partition names (generated by Management GUI during autoconfiguration) now indicate the partition type, element type, and the number of partition (for example, ST Genetic DLT #021).
Management GUI: real SCSI addresses	The Management GUI shows the real SCSI addresses for all elements that can be accessed by the SCSI Clients (<i>Configuration Tab > Clients Tab > SCSI Client</i> section).
DB script to migrate from Scalar DLC version 2.1, 2.2, 2.3, and 2.4 to version 2.5	The database from Scalar DLC version 2.1, 2.2, 2.3, and 2.4 can be upgraded to Scalar DLC version 2.5.

Resolved Issues

3704	When the SCSI drivers are removed the Scalar DLC keys are also removed from Registry so Scalar DLC software cannot work.
3688	During mount or dismount listd command for a specific client does not show all drives reserved for that client.
3684	The Dependency feature is required to bring the NobleNet Portmapper for TCP/IP online before SDLC Supervisor starts.
3678	Partial inventory for shared partition is not required to be executed twice.
3654	Implement setting access privileges feature for das client via Management GUI.
3653	Include the installation of Win2000 SP4 and patch KB824146 in the installation of SDLC.

3620	ISR must be installed only once during OS startup and must remain installed up to the end of OS session
3603	DAS commands viewcord and volserstatus2 must work
3602	Implement list3 and volsertodrive2 DAS commands
3601	DAS commands drivestatus5 and hosttype must work
3600	DAS command SWITCH must work
3599	DAS commands SCOP and SCAP must work
3598	DAS commands KILLAMU and SHUTDOWN must work
3524	The Scalar DLC-generated partition names should be more descriptive
3516	Remove useless menus from Management GUI.
3501	Adding SCSI Client changes Freeze button state (Configuration > Physical > Library)
3439	Symbols "-" and "\$" are allowed for use in Client name
3432	The information about real SCSI addresses of elements for SCSI clients must be visible in Management GUI.
3360	Generate SNMP trap and Management GUI notification if a cartridge from a reserved slot (in tower) is moved to a Problem box.
3344	LogViewer won't start in more that one instance
3701	Add LSIU80LVD SCSI card to Target Card installation

Known Issues

3709	After upgrading Scalar DLC database (to 2.5 from any other version) the Repair > Create new DB function makes the Scalar DLC database not operable.
3703	Check the reserved slot state for all pass-through moves with both robots if the reserved slot contains a cartridge.
3700	Use information for drive cleaning getting from Scalar library. See Drive Status Log Page (3Ah)
3693	Inquiry Standard Data field 'Response Data Format' has invalid value for SCSI3
3692	Command cellinfo doesn't work correct.
3687	Upgrade form 2.1 to 2.5. It is impossible to upgrade MSSQL 7 to MSSQL Server 2000 with SP3 during installation.
3686	Target is no longer operable when IES command fails due to timeout
3679	There are error if media type is not pointed in DAS commands for work with scratches
3676	duplicate volume in differnet partitions - no response to robar command
3672	Unknown Volser cannot be assigned to Drive
3671	Make VolserToDrive implementation in Management GUI the same way as VolserToClient.

3668	Repair>SDLC server>Computer renaming and Repair>SDLC server>Repair SDLC user account. "Fatal error during installation" message appears, but the operation finishes successfully.
3666	Scalar DLC does not detect Scalar DLC target and tries to configure as library
3643	Command inventory with options tower and linear doesn't work
3614	SCSI INQ C0 message has Firmware Revision=210A all in caps Library direct does not.
3605	Implement Advanced Configuration and Power Interface (ACPI) support
3585	Log Sense Pages 33, 35 and 36 have wrong size for very large libraries
3580	Cloning of HDD does not generate a unique SID.
3519	Menu Operator Panel. If robot is in offline that the buttons do not work for it.
3517	Configuration > SCSI Target > Fiber card > Add New Target allows SCSI ID set to 31
3506	Spec. Change. Media found in pass-through location is placed in problem box
3493	Scalar DLC does not handle configuration changes that conflict with partition assignments well
3448	Inquiry command does not support 0XD0 page (sibling serial number)
3445	SCSI Target. Switch loses targets in arbitrated loop when restarting SDLC
3444	SCSI Target. Targets are lost for Emulex Initiator after restarting SDLC
3358	Optimize initialization.
3338	Conceptual problem with quantity of symbols of LSCI coordinate for drives in DA.
2843	Robar with SDLC Client - missing parameter in Dismount Management
2642	Inventory (Init element status) from Management GUI should be interruptable
2633	"Kill them all" operation must not stop the ScsiTarget object completely
2254	Need to support single log from S10K
1028	Rules: It is necessary to provide for multiple recipients of notifications

