# StorNext NAS Release Notes

| Release | 1.4.0.2 |
|---|---|
| **Supported Product** | StorNext NAS |
| **Date** | June 2017 |

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# StorNext NAS 1.4.0.2 Release Notes

The StorNext NAS 1.4.0.2 Release Notes provides the following:

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For help with upgrading your StorNext NAS software, see the NAS Upgrades section in the *StorNext NAS Documentation Center*.

For help with troubleshooting StorNext NAS issues, see the Troubleshooting Tips and FAQs section in the *StorNext NAS Documentation Center*.

## Supported Software, Hardware, and Licensing Models

The following section provides information regarding supported platforms and licensing models.

### StorNext NAS Compatibility

StorNext NAS 1.4.0.2 is supported only with StorNext 5 Release 5.4.0 and later. Refer to the appropriate appliance Release Notes for installing the latest StorNext release.

### Supported Quantum Hardware

StorNext NAS1.4.0.2 is supported on the following Quantum appliances:

| Appliance | CentOS Version |
|---|---|
| Xcellis Workflow Director | OS7 |
| Artico | OS6 |
| Xcellis Workflow Extender | OS6 |
| G300 | OS6 |
| M-Series (M44x, M66x, and Pro Foundation) | OS6 |

> **Note:** If you want to run StorNext NAS on Xcellis Workflow Director, Xcellis Workflow Extender, G300 Gateways, or M-Series MDCs, contact your Quantum Account Manager to ask about obtaining a StorNext NAS license.

### Licensing and Enablement

Beginning with StorNext 5.3.0, StorNext NAS is a licensed feature for Artico, Xcellis Workflow Director, Xcellis Workflow Extender, G300 Gateways, and M-Series Metadata Controllers.

- For Artico, the appliances are shipped with StorNext NAS licenses pre-installed.

- For Xcellis Workflow Director, Xcellis Workflow Extender, G300 Gateways, and M-Series Metadata Controllers, you must purchase add-on StorNext NAS licenses, and then install these licenses on each node running the StorNext NAS software.

- You can install StorNext NAS licenses using the StorNext GUI's licensing feature. See the License NAS in the StorNext GUI topic of the *StorNext Connect Documentation Center*.

# New Features for Release 1.4.0.x

The StorNext NAS 1.4.0.x includes the following new features.

## Named Streams Option

In StorNext NAS 1.4.0.x, you can now set a named streams option to enable native SMB protocol options to optimize transmission of macOS file metadata. See SMB Share Options in the *StorNext NAS Documentation Center*.

## ACL Support for LDAP

StorNext NAS supports Access Control Lists (ACLs) when the NAS server is bound to an AD or OpenLDAP server. See Apply AD Authentication to NAS in the *StorNext NAS Documentation Center*.

## SNMP Support

**Note:** Updated SNMP documentation will be published with the release of StorNext 6.0.

You can now configure the Simple Network Management Protocol (SNMP) service to monitor individual Quantum appliances.

StorNext NAS supports Net-SNMP, which supplies default Management Information Base (MIB) variables as the information repository.

## Automatic NAS Cluster Upgrades

You can now issue a single command to upgrade an entire NAS cluster from StorNext NAS 1.3.0 to StorNext NAS 1.4.0.x. See Upgrade to NAS 1.4.0.x in the *StorNext NAS Documentation Center*.

# Change Requests: Notes and Fixed Issues

The following tables present notes and fixed issues for StorNext NAS 1.4.0.x.

**Table 1:** StorNext NAS 1.4.0.2

| Change Request | Description |
| --- | --- |
| H1648 | **NOTE**<br><br>To address the CVE-2017-7494 security issue, the SMB option `nt pipe support=no` has been added to the StorNext NAS global SMB Options. |
| H901 | **FIXED**<br><br>In the following scenario only, NAS services will not failover when the StorNext file system is stopped:<br><br>a.  The StorNext FSM is running on the same node as the NAS master node.<br><br>b.  NAS has been enabled an Xcellis Workflow Director system.<br><br>c.  NAS failover has been enabled on NFS shares.<br><br>NAS services have been updated to appropriately failover when the StorNext file system is stopped.<br><br>ⓘ **Note:** NAS failover is supported only on the Xcellis WFD (CentOS7) for NFSv4 clients. For environments exporting NFS shares on Xcellis WFD or G300 gateways, or on Artico or MDC servers, clients connect to the shares through the master StorNext NAS System static IP address. |
| H1416 | **FIXED**<br><br>In certain scenarios, such as when the network cable is disconnected from a Quantum appliance, NAS shares remain inaccessible when the network connection is reestablished.<br><br>The controller has been updated to remount NAS shares after a network connection is reestablished. |
| H1509 | **FIXED**<br><br>All SMB options — even those that are case sensitive — were being converted to lowercase when they are written to the smb.conf file.<br><br>The controller has been updated to respect case-sensitive settings when writing SMB options to the smb.conf file. |

**Table 2:** StorNext NAS 1.4.0.1

| Change Request | Description |
|---|---|
| N/A | **FIXED** |
| | In the StorNext NAS 1.4.0 release, the blocksize used in Samba's virtual file system (VFS) was not compatible with StorNext. This incompatibility caused a file's size on disk calculation to be incorrect. In addition, it can cause Windows 7 clients to crash when accessing large files in NAS SMB shares. |
| | StorNext NAS 1.4.0.1 has corrected this issue. |
| | • If you are currently running StorNext NAS 1.4.0, make sure to upgrade to StorNext NAS 1.4.0.1 to avoid this issue. |
| | • If you are currently StorNext NAS 1.2.5 or 1.3.0, you can upgrade directly to StorNext NAS 1.4.0.1. |

**Table 3:** StorNext NAS 1.4.0

| Change Request | Description |
|---|---|
| 66235 | **NOTE** |
| | When generating the krb5.conf file, the **dns_lookup_kdc** option was always set to **false**. |
| | Quantum Support can now alter this setting by changing a Registry Key value. See AD Forest Issues and FAQs in the *StorNext NAS Documentation Center*. |
| 66237 | **NOTE** |
| | In some Microsoft AD environments, you may need to exclude or ignore specific trusted domains, such as those that are behind firewalls. See AD Forest Issues and FAQs in the *StorNext NAS Documentation Center*. |
| 63682 | **NOTE** |
| | The NAS controller can now detect StorNext case insensitivity settings and reset SMB share case sensitive options accordingly. See SMB Share Options in the *StorNext NAS Documentation Center*. |
| 66228 | **FIXED** |
| | During a reboot or upgrade, the StorNext NAS controller attempts to join/rejoin to the AD server, even in cases when configuration settings have not changed and the node is fully functional. |
| | During reboot or upgrade, the StorNext NAS controller now checks if configuration has changed before attempting a rejoin. |

| Change Request | Description |
|---|---|
| 66234 | **FIXED**<br><br>The StorNext NAS controller was not checking Access Control Lists (ACLs) before moving files to a directory.<br><br>The controller has been updated to check ACLs prior to moving files to a directory. |
| 66236 | **FIXED**<br><br>In certain scenarios, notably when there exists a network or DNS related issue, the StorNext NAS controller delays starting. This delay can cause systemd to restart the process, resulting in a restart-loop.<br><br>By increasing the timeout limit to 300 seconds, systemd restart-loops are now avoided. |
| 66239 | **FIXED**<br><br>In a NAS cluster, non-master nodes are issuing commands to bind to a Microsoft AD environment, which can interfere with the master node's processes.<br><br>The controller has been updated to skip certain commands on non-master nodes. |
| 66295 | **FIXED**<br><br>In certain scenarios, winbind checks are being executed only once, causing the check to fail due to timeout or communication issues.<br><br>StorNext NAS now executes winbind checks multiple times before reporting a failure. |
| 66297 | **FIXED**<br><br>In certain scenarios, when binding StorNext NAS to a Microsoft (AD) environment, you may need to specify multiple Kerberos domain controllers.<br><br>You can now specify multiple domain controllers with the `auth config ads` command. See Apply AD Authentication to NAS in the *StorNext NAS Documentation Center*. |