Appliance Controller Release Notes

Release	1.4.1.3
Supported Product	Appliance Controller
Date	October 2017

Contents

Appliance Controller 1.4.1.x Release Notes

The Appliance Controller is Quantum's newly-branded feature for managing not only StorNext NAS, but also SNMP and iSCSI. This Appliance Controller Documentation Center and Release Notes are replacing the previous StorNext NAS Documentation Center and Release Notes. The Appliance Controller documentation includes all content to assist you in performing NAS, SNMP, and iSCSI tasks from the controller console.

The Appliance Controller 1.4.1.x Release Notes provides the following:

- New Features for Release 1.4.1.x on the next page
- Change Requests: Notes and Fixed Issues on page 4

For help with upgrading your Appliance Controller, see the Upgrades section in the *Appliance Controller Documentation Center*.

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

Supported Software, Hardware, and Licensing Models

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

Appliance Controller Compatibility

Appliance Controller 1.4.1.x is supported with StorNext 5.4.0 and later. We strongly recommend upgrading to Appliance Controller 1.4.1.x before upgrading to StorNext 6.0. Refer to the appropriate appliance Release Notes for installing the latest StorNext release.

In addition, you must be running Appliance Controller 1.4.1.2 or later and StorNext Platform 6.0.1.1 or later to use the iSCSI Network Connections feature on CentOS7-based appliances.

Supported Quantum Hardware

Appliance Controller 1.4.1.x is supported on the following Quantum appliances:

Appliance	CentOS Version
Xcellis Workflow Director	OS7 (R630 Server)
Artico	OS6 (R520 Server) OS7 (R630 Server)

Appliance	CentOS Version
aiWARE for Xcellis	OS6 (R520 Server)
	OS7 (R630 Server)
Xcellis Foundation	OS7 (R630 Server)
Xcellis Workflow Extender	OS6 (R520 Server)
	OS7 (R630 Server)
G300	OS6 (R520 Server)
M-Series (M44x, M66x, and Pro Foundation)	OS6 (R520 Server)

> **Note:** If you want to run theStorNext NAS on Xcellis Workflow Director, aiWARE for Xcellis, 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

StorNext NAS 1.3.0 and later is a licensed feature. Use StorNext 5.3.0 or later to activate the license.

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

- For Xcellis Workflow Director, aiWARE for Xcellis, 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 NAS management services.

- 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 1.4.1.x

The Appliance Controller 1.4.1.x release includes the following new features.

NAS Cluster Resync

With the Appliance Controller 1.4.1.1 release, you can now resync all nodes within a NAS cluster, which may be necessary if Quantum Service configures a new registry setting for the cluster. See Resync a NAS Cluster in the *Appliance Controller Documentation Center*.

NAS Cluster and Authentication Resets

With the Appliance Controller 1.4.1.1 release, you can now reset the configuration and registry settings of

the following NAS components:

- NAS clusters to factory-default non-clustered states. See Return a NAS Cluster to a Non-Clustered State in the *Appliance Controller Documentation Center*.

- NAS authentication to factory defaults. See Reset NAS Authentication in the *Appliance Controller Documentation Center*.

SNMP Monitoring Support

The Appliance Controller provides Simple Network Management Protocol (SNMP) services, which you can use to effectively monitor your Data Center. These SNMP services support existing network management tools , such as HP OpenView, Nagios, Icinga, or SolarWinds.

You must be running StorNext 6.0 software or a later version to use the SNMP feature.

See SNMP Monitoring in the *Appliance Controller Documentation Center*.

iSCSI Network Connections

The Appliance Controller's iSCSI feature provides iSCSI network connectivity between an Xcellis Workflow Director or Artico (initiator) and QXS Storage Arrays (targets).

You must be running Appliance Controller 1.4.1.2 or later and StorNext Platform 6.0.1.1 or later to use the iSCSI feature.

See StorNext Appliances iSCSI in the *Appliance Controller Documentation Center*.

Change Requests: Notes and Fixed Issues

The following table presents notes and fixed issues for Appliance Controller 1.4.1.x.

Table 1: Appliance Controller 1.4.1.3

Change Request	Description
H2089	**FIXED** **Issue:** In certain scenarios, SID mapping is incorrectly mapping users for customers using Apple Open Directory authentication. **Resolution:** This issue has been addressed in the Appliance Controller 1.4.1.3 release. Upgrade to this release to resolve the issue.

Table 1: Appliance Controller 1.4.1.3

Change Request	Description
H2092	**FIXED** **Issue:** During NAS failover for clusters with NFS shares, the Appliance Controller is not verifying whether nodes are joined to the cluster, which is in turn preventing nodes that are not joined from rejoining the cluster. **Resolution:** This issue has been addressed in the Appliance Controller 1.4.1.3 release. Upgrade to this release to resolve the issue.
H2117	**FIXED** **Issue:** NAS cluster creation fails with an "operation not permitted" error on any appliance with aiWare enabled. **Resolution:** This issue has been addressed in the Appliance Controller 1.4.1.3 release. Upgrade to this release to resolve the issue.

Table 2: Appliance Controller 1.4.1.2

Change Request	Description
H1973	**FIXED** **Issue:** During a system restart, the Appliance Controller needs to start even if the StorNext file system does not. **Resolution:** With the release of Appliance Controller 1.4.1.2, the Appliance Controller can restart even when the StorNext file system does not. Under these circumstances, the Appliance Controller will not connect to all nodes, but the controller console will initialize controller-based features. It will also be available to manually address issues.
H2045	**FIXED** **Issue:** Users can only configure up to 10 ports (0-9) **Resolution:** With the release of Appliance Controller 1.4.1.2, users can now configure up to 50 ports.

Table 3: Appliance Controller 1.4.1.1

Change Request	Description
H1715	**NOTE** To address the CVE-2017-7494 security issue (commonly referred to as SambaCry) and smbd panics, Samba libraries have been patched. This patch is part of the 1.4.1.1 upgrade package.
H1824[1]	**NOTE** To address the CVE-2017-11103 security issue (Heimdal Kerberos vlunerability), Samba libraries have been patched. This patch is part of the 1.4.1.1 upgrade package.

Change Request	Description
H1679[1]	**FIXED** In some environments, smbd can panic when multiple nodes are placed into a NAS cluster. This issue has been resolved with H1715 listed above.
H1732[1]	**FIXED** Under certain circumstances, the workaround addressed in H1648 (of the StorNext NAS 1.4.0.2 release) for the SambaCry vulnerability was overly restrictive, which prevented access to SMB shares for macOS clients. This issue has been resolved with H1715 listed above.

[1] These items were also included in the StorNext NAS 1.4.0.3 release, but not the Appliance Controller 1.4.1 release. Users who upgraded directly from StorNext NAS 1.4.0.2 or earlier to Appliance Controller 1.4.1 will not have these fixes. Therefore, for such users, we **strongly** recommend upgrading to Appliance Controller 1.4.1.1 to access these critical security fixes.

Table 4: Appliance Controller 1.4.1

Change Request	Description
H451 / 64171	**FIXED** **Issue:** NFS clients cannot distinguish between two NFS shares that are exported from the same underlying StorNext file system. By default, the Linux NFS server uses the underlying StorNext file system's UUID to identify an exported share. However, shares exported from the same StorNext file system have the same UUID, and therefore, the NFS client cannot differentiate between them. **Resolution:** The Appliance Controller now generates a unique fsid for each NFS share.
H1413 / 68182	**FIXED** **Issue:** If you assign a numeric-only user name to the `auth config ads` command's `<admin_username>` value, the `share create` command fails. **Resolution:** You can now assign both numeric-only and alpha-only admin user names to the `auth config ads` command's `<admin_username>` value.

Change Request	Description
H1421 / 68037	**FIXED** **Issue:** If you attempt to stop StorNext services on an Xcellis Workflow Director by issuing the `systemctl cvfs stop` command, you may cause StorNext services to hang or fail if you do not first stop NAS failover services on NFS clusters. **Resolution:** You can now successfully stop StorNext services on an Xcellis Workflow Director by issuing the `systemctl cvfs stop` command — without first needing to stop NAS failover services on NFS clusters.
H1447 / 68107	**FIXED** **Issue:** Under certain circumstances, such as after a NAS failover, the non-master nodes are unable to sync with the master node. **Resolution:** The Appliance Controller now monitors such scenarios, and it corrects any issues so that all nodes within the NAS cluster can sync with the master node.
H1479 / 67999	**FIXED** **Issue:** NAS VIPs are being assigned the same IP addresses as those used for StorNext HA. **Resolution:** The Appliance Controller now checks that the NAS VIP is not the same as a StorNext HA VIP.