



Exos® X 4006 Series

I200R002-01 Release Notes

Part Number 204207900-00, A • August 2022

Description

This package delivers firmware for the Exos X 4006 Series storage enclosures.

Model	Firmware version
4006 Series	I200R002-01

Operating systems

Supported operating systems include:

- Microsoft Windows Server 2022
Microsoft Windows Server 2019 Hyper V
Microsoft Windows Server 2019
Microsoft Windows Server 2016 Hyper V
Microsoft Windows Server 2016
- Red Hat Enterprise Linux 8.2
Red Hat Enterprise Linux 7.8
- SuSE Linux Enterprise Server 15 SP2
SuSE Linux Enterprise Server 12 SP5
- VMware ESXi Server 7.0
VMware ESXi Server 6.7
- Citrix Hypervisor 8
Citrix XenServer 7

Installation instructions

To install this firmware by using either the Storage Management Console or the SFTP/FTP interface, see the *Seagate Exos X 4006 Series Storage Management Guide*.

Autonomous Drive Regeneration (ADR) disclaimer

ADR is a new feature for HDD remanufacture. For certain specific single-head failures within a disk drive, ADR can logically remove that offending head and continue to use the rest of the drive. This prevents replacement of the drive. The first release (I200R002-01 coupled with our 18TB and 20TB drives) contains the first part of this feature. The second part of this feature will be introduced in a subsequent release.

New features or enhancements in I200R002-01

None, initial release

Known issues and workarounds

<p>Issue: In CLI help text for the <code>create replication-set</code> command, the <code>snapshot-count</code> parameter is shown as required when snapshot history is enabled, but it is optional with a default value of 1.</p> <p>Workaround: None required</p>
<p>Issue: Attempting a hot swap of sideplane 3 results in loss of data path redundancy and causes the root expander to go down.</p> <p>Workaround: Cold swap all sideplanes.</p>
<p>Issue: Command or operation to turn off amber locator LED fails and light stays on.</p> <p>Workaround: Retry the command.</p>
<p>Issue: Network port LEDs do not report information as expected for Network Port Activity Status and Network Port Link Speed.</p> <p>Workaround: None</p>
<p>Issue: In CLI help text for the <code>create replication-set</code> command, the <code>snapshot-basename</code> parameter omits <code>'</code> and <code>></code> from the prohibited characters list.</p> <p>Workaround: Do not include <code>'</code> or <code>></code> in snapshot basenames.</p>
<p>Issue: In CLI help text for the <code>remove ipv6-address</code> command, index values for controllers are listed as 0 to 3 but the actual values should be 1 to 4.</p> <p>Workaround: Use index values from 1 to 4.</p>
<p>Issue: A single-ported drive can cause an error during code load.</p> <p>Workaround: Retry code load operation.</p>
<p>Issue: Help recommendation for QTOF disk group condition is not sufficient to resolve the condition.</p> <p>Workaround: None</p>
<p>Issue: In SMC help, some text is missing from translated (non-English) content.</p> <p>Workaround: Use English version if possible.</p>
<p>Issue: Some Redfish GET requests with invalid URIs return successful but invalid JSON results instead of an error.</p> <p>Workaround: Use only valid URIs in Redfish requests.</p>
<p>Issue: Unable to communicate with the power supply after power cycle.</p> <p>Workaround: Retry the power cycle.</p>
<p>Issue: A controller crashes on a multi-enclosure system due to heartbeat loss.</p> <p>Workaround: Manually unkill the controller.</p>
<p>Issue: If a controller fails, the partner controller is not generating expected alert email messages.</p> <p>Workaround: Resolve the condition that caused the failover event.</p>
<p>Issue: A single-ported drive causes a proper health condition, which prevents code load from progressing.</p> <p>Workaround: If this condition does not resolve automatically, restart the controller.</p>
<p>Issue: The downloaded CSV file for heatmap information is an invalid file.</p> <p>Workaround: Review the heatmap in the SMC.</p>
<p>Issue: When upgrading an existing chassis to use next-generation components—with FTP enabled—the protocol becomes disabled when the update completes.</p> <p>Workaround: Re-enable FTP once the upgrade completes.</p>
<p>Issue: Code load fails because the expected version appears to be incorrect.</p> <p>Workaround: Retry code load operation.</p>

Issue: LED-to-icon label mismatch: "Identify" and "OK to Remove" LEDs are incorrectly swapped on controller module face-plates for Exos X 4006 Series RBODs. The icon label for "Identify" displays "OK to Remove" LED behavior, and the icon label for "OK to Remove" displays "Identify" LED behavior.

Workaround: None—Hardware position or label mismatch: Interpret LED behavior associated with the "Identify" icon label as "OK to Remove", and vice versa.

Issue: During I/O, when code load fails on one controller, and an attempt is made to load code on the partner controller, it also errors and then interatively loops while displaying the error.

Workaround: Restart both controllers, and then initiate the code load.

Issue: Very rarely, a replication schedule cannot be created from the latest-generation storage system to a compatible previous-generation storage system.

Workaround: Retry the Replication Schedule action.

Issue: Within the Maintenance > Firmware > System tab, WBI displays the incorrect controller location when used in single-controller mode.

Workaround: Invoke the `show versions detail` CLI command to see the correct controller module FRU actually in use.

Issue: Repetitive failovers can cause a controller module to go into data protect mode.

Workaround: Use the `unfail controller`, `restart mc`, or `restart sc` CLI commands, or WBI Restart/Shutdown System action (restart actions) to unkill/restart the controller module. Use the `shutdown` CLI command or WBI Restart/Shutdown System action (shutdown actions) to perform an orderly shutdown for properly power cycling the enclosure.

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