

Amulet Hotkey CoreStation HX

2026.6.1 Firmware Release Notes



Release Details

Recommended best-known configuration

Component	Current Release	Previous Release
HX Management Firmware	2026.6.1	2026.4.1
HX2000 Node BIOS	2026.3.1	2026.3.1
HX3000 Node BIOS	2026.6.1	-
HX2000 driver pack	FEB26	FEB26
HX3000 driver pack	JUN26	-
HX2000/HX3000 baseline firmware pack	MAR26	MAR26
Node Pre-install driver pack	JUN26	MAY25
HX Agent for Windows	2026.5.1	2025.7.3

Amulet Hotkey Resources page - <https://www.amulethotkey.com/resources/library/corestation-hx/>

New Features in this release

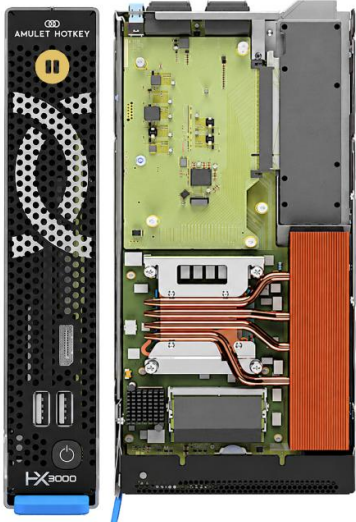
HX3000 Workstation Node

This is the first HX Firmware release with support for CoreStation HX3000 nodes. If HX3000 nodes are installed in an enclosure running an earlier firmware version there is no risk of damage, but those nodes will not function and will not be correctly detected by the Management Console.

HX Firmware 2026.6.1
version 1.0

The enclosure supports a mix of HX2000 and HX3000 nodes with no additional configuration. Each node page shows an appropriate image and relevant information for the node fitted in that slot.

For further information about CoreStation HX3000 Nodes, see the Node user guide.



Node 1 Info

Node

Hostname

DESKTOP-CPQ2HOH

Serial Number

30531-0009

Model

HX3000

Node Name

Node Group

Node Role

ProdEng Programmed - 09.06.2026

Hardware

CPU

Intel(R) Core(TM) Ultra 7 265K

GPU

NVIDIA RTX 2000 Ada

RAM0

32 GB

RAM1

32 GB

SSD0

Micron 3500 512GB

SSD1

Micron 3500 512GB

Interposer

Interposer Model

Intel E610 dual-port 10GbE

Interposer Serial Number

30623-0007

Interposer Version

A.0

N205 IO Module

This release also adds support for the N205 Network expansion module. This module is fitted in IO Module slot 2 and works with the N120 fitted in IO Module slot 1 to provide multiple network paths for HX3000 Nodes. The N205 does not provide any enclosure management services, so must be used alongside the N120 Management Controller.

If the N205 is fitted to an enclosure running an earlier firmware version no damage will be caused and the additional network ports will operate correctly, but the N205 will not be visible in the Management Console.



Updated Network Pages

The Management Controller Network Page has been updated to reflect the additional Network interfaces available when using N205 and HX3000 nodes. Since each Node can have multiple active network connections, this provides a single place to see the status of each one.

For each of the available interfaces, each node reports link state, link speed, current IP and assignment method:

- Fabric 1A – N120 Switched Network using SFP Uplinks and Link Aggregation
- Fabric 1B – N120 individual passthrough Ethernet ports
- Fabric 2A – Not available with N120 + N205
- Fabric 2B – N205 individual passthrough Ethernet ports

The screenshot shows the CoreStation Management Controller interface. At the top, there's a header with 'CORESTATION System Firmware Configuration Events Support' and a user profile 'admin'. Below this, a status bar shows 'Enclosure State: On Health: Critical IP: 10.50.0.123 Serial Number: 30236-0006'. The main content area is titled 'I/O Module System' and includes a 'Node Link Status' table.

Node	Present	Fabric 1A	Fabric 1B	Fabric 2B
1	✓	10.50.1.50 (cached) DOWN	192.168.203.77 (cached) DOWN	169.254.98.149 (cached) DOWN
2	✓	10.50.1.52 (cached) DOWN	169.254.222.161 (cached) DOWN	169.254.132.7 (cached) DOWN
3	✓	10.50.1.95 (dhcp) 1G	10.50.1.53 (dhcp) 2.5G	192.168.203.70 (dhcp) 1G
4	✓	10.50.1.98 (dhcp) 1G	169.254.122.45 (cached) DOWN	169.254.177.15 (cached) DOWN
5	✓	10.50.1.73 (dhcp) 1G	169.254.198.135 (cached) DOWN	Not Available
6	✓	10.50.1.97 (dhcp) 1G	169.254.55.35 (cached) DOWN	169.254.234.143 (cached) DOWN
7	✓	10.50.1.96 (dhcp) 1G	169.254.206.210 (cached) DOWN	169.254.167.159 (cached) DOWN
8	✓	10.50.1.100 (dhcp) 1G	169.254.143.68 (cached) DOWN	169.254.111.152 (cached) DOWN
9	✓	10.50.1.77 (dhcp) 1G	169.254.117.190 (cached) DOWN	Not Available
10	✓	10.50.1.78 (dhcp) 1G	169.254.187.211 (cached) DOWN	Not Available
11	✓			
12	✗			

For further details of each network interface, click on the N120 or N205 images. The N120 detail view shows further information for each of the Nodes Fabric 1A and 1B, the SFP uplinks and settings to enable and disable the uplinks.

The screenshot shows the 'I/O Module 1' detail view. It includes a 'Node Link Status' table and a 'Network - Fabric 1A' section. The 'Network - Fabric 1A' section shows the status of SFP-A, SFP-B, SFP-C, and SFP-D.

SFP-A	SFP-B	SFP-C	SFP-D
CONNECTED	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
Link Speed: 10G	Link Speed: UNKNOWN	Link Speed: UNKNOWN	Link Speed: UNKNOWN
LAG Status: Enabled	LAG Status: Enabled	LAG Status: Enabled	LAG Status: Enabled

Node IP address reporting

On the Management Console Node page, the networking section shows the IP addresses assigned to each network interface and whether the address was set statically or assigned by DHCP. In this release the Management Controller also shows the last known (cached) IP address for each interface when the Node is powered off or the link is down.

Networking	
Fabric 1A IP Address	10.50.1.73 (dhcp)
Fabric 1A MAC	00:13:95:67:FF:C7
Fabric 1B IP Address	169.254.198.135 (cached)
Fabric 1B MAC	00:17:FD:60:0D:BC

The Recent Events for each Node also record the new IP address whenever the IP address changes to make it easier to track network states or outages. An IP address starting 169.254 is a link-local or Automatic Private IP address and is used when the Node OS attempts to contact a DHCP server, but receives no reply on that interface.

07/07/2026, 07:50:06	Node	6	Node 6 's Fabric 1A IP address assignment has been made dynamic.	Info
07/07/2026, 07:50:06	Node	6	Node 6 's Fabric 1A IP address has changed to 10.50.1.73.	Info
07/07/2026, 07:49:59	Node	6	Node 6 - Fabric 1A Link UP	Info

API changes in this release

API documentation and example code is provided in the CoreStation HX API guide.

When interfacing with the API, it may be useful to call the un-authenticated GET Enclosure Management endpoint which returns the current running Firmware version. The API client can then use the correct API methods for the target system.

Move from switch to iomodule

When adding the N205, the API structure for switch information changes switch to iomodule.

GET State

- switch object changes to iomodule object with two further objects inside – one for N120, one for N205
- New object for iomSystem to report IO Module system health

GET Switch

- Replaced with GET iomodule (with query for 1/2) and GET iomodules.

Network interface names

The network interface names in GET Node, GET Nodes and GET State are used as keys for MAC Address, IP Address, link speed and link state. The network interface prefixes have changed:

- Fabric 1A: was *netInt*, now *nodeNet0*
- Fabric 1B: was *netExt*, now HX2000 - *nodeNet1*, HX3000 - *interNet0*
- Fabric 2A: HX2000 – none, HX3000 - *nodeNet1*
- Fabric 2B: HX2000 – none, HX3000 - *interNet1*

For example, to retrieve the Fabric 1A MAC Address for node 4:

```
nodes = client.get("/corestation/nodes")
```

```
MAC_Address = nodes[3]["nodenet0Mac"]
```

Issues Resolved in this release

Key	Summary	Description
CSHD-2239	Link speed showing as down when using Fabric 1A network ports on HX2000	When using only Fabric 1A (SFP Uplinks), the node page shows network link speed as DOWN, even when a network connection is available. The Node IP addresses are accurate
CSHD-2122	Creating users via Create User API method corrupts Management Console user database	Users should be created using the GUI or LDAP integration. Adding, modifying or deleting users via the HX API may trigger this issue. The Management Controller requires a factory reset to restore the database.
CSHD-2085	Remote Console - KVM Connect button sometimes shows Connect or Connecting whilst session is active	If the button shows Connect or Connecting, it is not possible to terminate the session cleanly. Closing the browser tab will close the session, but subsequent sessions to that node may be blocked for up to 15 minutes.
CSHD-2022	Guest user account expired errors	Guest user accounts are logged out when viewing the node page due to incorrect permissions. As a workaround, upgrade these users to Operator.
CSHD-2021	Operator user account expired errors	Operator users are logged out automatically when viewing the cooling page due to a permissions issue. As a workaround, upgrade operator users to technician role or avoid the cooling page.
CSHD-1969	Event Log reports the previous firmware version after an upgrade	Following firmware upgrade, the event log shows a successful outcome, but reports the previous version rather than the new version
CSHD-1957	Fans report briefly removed and inserted	Fan modules show as removed, then inserted in the CoreStation event logs. This typically happens up to ten times per day and does not affect the cooling of the enclosure
CSHD-1954	"The Management Console is still initializing" banner on every page refresh	When moving between pages the coral banner is sometimes shown for a brief time. The system is fully operational and active.
CSHD-1951	Login failure due to false 'Max concurrent sessions' limit	Users can be prevented from authenticating or see their session terminated with a false concurrent user error. Re-attempting the login is successful.

Known issues in this release

Key	Summary	Description
CSHD-2311	Setting static IP address using serial port requires enclosure restart or network cable re-plug	If the serial port is used to set static IP, the Management network port must see a link down/up event for the settings to take effect.
CSHD-2597	I/O Module passthrough port status swaps odd and even ports	Where the IO Module pages show the status of the passthrough ethernet ports on N120 and N205, the image swaps positions of ports 1/2, 2/4, 5/6 etc. The status is correct, but the position is wrong.
CSHD-2239	Link speed showing as down when using Fabric 1A network ports on HX2000	When using only Fabric 1A (SFP Uplinks), the node page shows network link speed as DOWN, even when a network connection is available. The Node IP addresses are accurate
CSHD-2180	Remote Console disconnect generates two identical events	When disconnecting a Remote Console session, there are two events generated in the CoreStation Event Logs
CSHD-2110	Unauthenticated API method enclosure-management returns more info than it needs to	This API endpoint is used to populate the login page pre-authentication. The API endpoint returns information about the network configuration of the CoreStation which is not required at this point and should not be exposed without authentication
CSHD-1972	Management Console sometimes shows incorrect Node power state	The node power state shown in the Node page and Remote Console pages can be inconsistent if both pages are open during a power state transition. Refreshing the pages shows the correct state.
CSHD-1969	Event Log reports the previous firmware version after an upgrade	Following firmware upgrade, the event log shows a successful outcome, but reports the previous version rather than the new version
CSHD-1961	2+2 LAG doesn't reliably fail over to the second Aggregator	When using LAG with two devices at the far end (using MLAG/VPC), sometimes the LAG fails to switch over to the second upstream switch after losing both links to the first.
CSHD-1914	Remote Console shows last frame when node enters standby	If a node is shutdown whilst Remote Console session is active, the last frame of video will be shown until the session is closed or the Node powers on.
CSHD-1913	HX2000 PXE boot fails if Remote Console is active	An active Remote Console session to a node will prevent that node from completing PXE boot. Close any active session before attempting to PXE boot a specific node.
CSHD-1911	Remote Console doesn't reliably connect and show video	Remote Console sometimes fails to initialise the KVM session, resulting in either no video, frozen video or a black screen.
CSHD-1847	Remote Console - Resizing or Scrolling browser window causes pointer offset on KVM	The mouse pointer on the user's machine may be offset from the mouse pointer in the Remote Console session and it may be impossible to click in certain locations.
CSHD-1715	HX5 "Restart now" banner is still present after restarting	Following a firmware update and Enclosure restart, the coral banner "Restart Now" is sometimes still shown. This can be cleared by refreshing the browser or logging out and in again. There is no need restart a second time.
CSHD-1622	Management Controller can take up to 5 minutes from power on to show login page	The Serial Console and Management Controller loading page are available within 30 seconds, but the login page can take up to 5 minutes following a power on or reboot
CSHD-1170	Loss of display output on startup with specific monitors when switching to Windows GPU drivers	For some local monitors connected to HX2000, BIOS POST messages are visible, but the Windows boot process and login screen display a blank image.
CSHD-1000	Username with non-alphanumeric characters appear as encoded strings in event exports	Username are shown correctly within the Management Controller, but are shown as an encoded string in the export. The username strings are still unique and refer to the correct user.



Resources

<https://amulethotkey.force.com/support/s/resources>

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