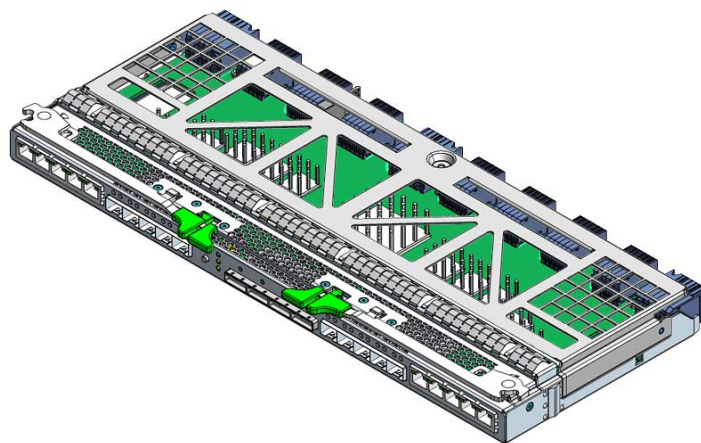


# Sun Blade™ 6000 10GbE Multi-Fabric Network Express Module Product Notes

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# Product Notes

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These product notes contain important and late-breaking information about the Sun Blade™ 6000 10GbE Multi-Fabric Network Express Module (NEM).

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## New Features

This release of the 10GbE Multi-Fabric NEM introduces several new features and capabilities.

## Firmware Support for Internal SAS Connections

This release adds support for connecting Sun Blade 6000 Server Modules to Sun Blade Disk Modules that are housed in the same Sun Blade 6000 Modular System chassis. See [“Driver and Firmware Requirements” on page 2](#) for information on the software and firmware levels required to implement SAS connectivity between server and disk modules.

## Support for Additional Server Models

This release extends to six the number of server models supported by the 10GbE Multi-Fabric NEM. They are listed below.

X6220	X6450	T6320
X6250	T6300	T6340

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**Note** – See the system documentation Sun provides for your server model to determine if there are any hardware or firmware requirements for interoperating with the 10GbE Multi-Fabric NEM.

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## Use of Common Array Manager for Firmware Upgrades

The Common Array Manager (CAM) has been qualified for use in upgrading SAS Expander firmware. This storage array management tool provides a browser-based interface for checking the current Expander firmware level and updating it to the latest version.

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**Note** – All SAS Expander modules involved in server-to-disk module connections must be at the same firmware version level.

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## Driver and Firmware Requirements

For information about the software and firmware requirements for implementing this release, see the *Sun Blade 6000 Disk Module Configuration Guide*.

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## Other Software Required

### Common Array Manager (CAM)

Support for Sun Blade 6000 Disk Modules and Sun Blade 6000 Multi-Fabric NEMs is available beginning with CAM version 6.1.2. To obtain the latest CAM software and expander firmware, go to the Sun software download site:

<http://www.sun.com/download/index.jsp>

Click on the tab View by Category, and then choose Systems Administration -> Storage Management. Look for the StorageTek Common Array Manager (CAM) Software release 6.1.2 or later.

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## Known Issues

The following are known to be issues in the current release.

### Incorrect Behavior of Link/Speed LED on T6340 Servers (6705005)

For T6340 servers, correct behavior of the Link/Speed LED on the 10/100/1000 MbE ports is defined as:

- Off for 10 MbE
- Amber for 100 MbE
- Green for 1000 MbE

The current *actual* behavior is:

- Off for 10 MbE
- Green for 100 MbE
- Amber for 1000 MbE

*Workaround:* Until this problem is fixed, interpret the current Link/Speed LED behavior as described above, *not* as it is described in the 10GbE Multi-Fabric NEM User's Guide.

### Incorrect Behavior of Activity LED on T63xx Servers (6728178)

Correct behavior of the Activity LED is to flash green only when there is traffic on the associated port and to remain dark under all other conditions. Currently, on T6300, T6320, and T6340 server blades, the Activity LED will turn on solid when a blade is inserted in the corresponding slot. This happens even if the blade is not powered on and there is not cable connected to the port.

When network traffic is moving through the port, the Activity LED does perform correctly.

*Workaround:* Ignore the Activity LED's condition except when the port is in normal use.

## Reboot May Cause Sun Blade T6300 and T6320 to Hang (6662335)

When connected to a Sun Blade 6000 10 GbE Multi-Fabric Network Expansion Module (NEM), the Sun Blade T6300 and T6320 server modules might hang during reboot or might only display a partial device tree in OpenBoot PROM. This behavior is not frequent.

*Workaround:* None. Reboot or reset the server module. Contact the Sun Service Center if three successive reboot cycles do not fix the problem.

## Disk Error Messages on T6300 and T6320 Connected to 10GbE NEM “Error for Command” (6709833)

Messages similar to the following message may be seen when you boot a Sun Blade T6300 or T6320 server module connected to the NEM, or when running SunVTS.

```
Jun 2 14:40:05 a18d scsi: WARNING: /pci@7c0/pci@0/pci@2/scsi@0/sd@0,0 (sd1)
Jun 2 14:40:05 a18d Error for Command: write(10) Error Level:Retryable
Jun 2 14:40:05 a18d scsi: Requested Block: 13392784 Error Block: 13392784
Jun 2 14:40:05 a18d scsi: Vendor SEAGATE Serial Number: 06442031 YL
Jun 2 14:40:05 a18d scsi: Sense Key: Unit Attention
Jun 2 14:40:05 a18d scsi: ASC:0x29 (scsi bus reset occurred), ASCQ:0x2,FRU:0x2
```

*Workaround:* None. System operation is not affected.

## Sun Blade T6320 Unable to Install Operating System With niu1 (6716751)

The Sun Blade T6320 server module can not perform a net installation of any OS from a NEM installed in slot niu1 of the chassis.

*Workaround:* Install the OS using a NEM that is installed in the chassis NEM slot niu0.

## mpt Driver Does Not Handle “expander status change” Events (6625472)

Event "1b" indicates a SAS expander status change. It is generated from MPT HBA when the SAS expander is either connected or disconnected. The MPT driver uses this event to handle expander device hotplugging.

*Workaround:* There is no workaround.

## Node Panic During SCATE Startup (6713370)

Starting SCATE causes a node to panic.

*Workaround:* There is no workaround.

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## Issues Resolved Since Last Release

The following issue was identified as a duplicate of CR 6625472 and has been closed.

### Hotplugging Network Express Module generates “mpt0: Unknown Event 1b Received” Message (6629953)

This CR was closed as a duplicate of CR 6625472,. See [“Known Issues” on page 3](#) for more information.

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## Related Documentation

TABLE 1 lists documentation for the 10GbE Multi-Fabric NEM and related products.

**TABLE 1** Related Documentation

Application	Title
NEM Installation and configuration	<i>Sun Blade 6000 10 GbE Multi-Fabric Network Expansion Module User's Guide, 820-3896</i>
FEM Information for T6320 server module	<i>Sun Blade T6320 XAUI Pass-Through Fabric Expansion Module User's Guide, 820-4777</i> <i>Sun Blade T6320 XAUI Pass-Through Fabric Expansion Module Product Notes, 820-5383</i>
Server Module Installation, configuration	<i>Sun Blade T6320 Server Module Installation Guide, 820-2384</i>
System monitoring and management	<i>Sun Integrated Lights Out Manager 2.0 User's Guide, 820-1188</i> Refer also to the ILOM documents for your Sun Blade modular system (chassis).
Sun Blade 6000 Modular System information	For all chassis documents refer to: <a href="http://docs.sun.com/app/docs/prod/blade.6000mod">http://docs.sun.com/app/docs/prod/blade.6000mod</a>

These documents are available at this location:

<http://docs.sun.com/app/docs/prod/blade.6000mod>

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## Technical Support

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**Note** – Before contacting Sun for support, ensure that required patches are installed on your server module and related systems.

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If you have technical questions or issues that are not addressed in the documentation, contact your local SunService<sup>SM</sup> representative.

For customers in the U.S. or Canada, call 1-800-USA-4SUN (1-800-872-4786).

For customers elsewhere the world, find the World Wide Solution Center nearest you by visiting this web site:

<http://www.sun.com/support/index.jsp>