Sun Blade 6000 Virtualized 40 GbE Network Express Module

Product Notes

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Using This Documentation

This document contains important and late-breaking information about Oracle's Sun Blade 6000 Virtualized 40 GbE Network Express Module. This document is written for system administrators, authorized service providers, and users who have advanced experience installing and upgrading software, firmware, and hardware.

- "Related Documentation" on page v
- "Feedback" on page vi
- "Support and Accessibility" on page vi

Related Documentation

Documentation	Links
All Oracle products	http://www.oracle.com/documentation
Sun Blade 6000 Virtualized 40 GbE NEM	http://docs.oracle.com/cd/E21077_01/
Sun Blade 6000 modular system	http://docs.oracle.com/cd/E19938-01/
Sun Netra 6000 modular system	http://docs.oracle.com/cd/E19945-01/
Oracle Integrated Lights Out Manager (Oracle ILOM) 3.0	http://docs.oracle.com/cd/E19860-01/
Oracle Solaris OS and systems software library	http://www.oracle.com/technetwork/indexes/documentation/index.html#sys_sw

Feedback

Provide feedback about this documentation at:

http://www.oracle.com/goto/docfeedback

Support and Accessibility

Description	Links
Access electronic support through My Oracle Support	http://support.oracle.com For hearing impaired: http://www.oracle.com/accessibility/support.html
Learn about Oracle's commitment to accessibility	http://www.oracle.com/us/corporate/accessibility/index.html

Updates and Releases

- "Firmware Update Available" on page 1
- "Enhancements" on page 1

Firmware Update Available

Firmware update 1.040 is now available and includes previous releases, fixes for known issues, enhancements, and new features. Key changes are the following:

- Modified memory footprint to increase the size of the copied EEPROM.
- New CLI command for setting receiver side scaling (RSS).
- Enhancements to FRUID necessary to meet the ROHS (lead free) compliant requirement.

This update also includes the new Receive-Side Scaling (RSS) feature. For information, refer to the *Sun Blade 6000 Virtualized 40 GbE Network Express Module User's Guide*.

Download the update from the Sun Blade 6000 Virtualized 40 GbE Network Express Module product page at: `http://support.oracle.com`.

For detailed instructions on how to access, download, and apply the newest firmware and software, see the Sun Blade 6000 Virtualized 40 GbE Network Express Module User's Guide.

For detailed information about fixes for known issues and a list of the release contents, refer to the README text file included in the download package.

Enhancements

The following are cumulative enhancements available since release 1.0:

- Supports Oracle VM 3.0.x, 3.1.x, 3.2.x, and 3.3.x.
- Supports VMWare driver.
- Supports newer releases of OEL, RHEL, and SUSE.
- Enhancements to the CMM CLI, including new commands to add and delete MAC addresses. For information, refer to the *Sun Blade 6000 Virtualized 40 GbE Network Express Module User's Guide*.
- Supports an earlier version of FRUID that is used by some non-production NEMs. Without this enhancement, these NEMs would generate illegal MAC address.

Product Compatibility Information

- "Supported Software and Firmware" on page 3
- "Supported Hardware" on page 4

Supported Software and Firmware

- "Available Firmware and Software" on page 3
- "Supported Operating Systems" on page 3
- "Supported Drivers" on page 4

Available Firmware and Software

See the Sun Blade 6000 Virtualized 40 GbE Network Express Module product page at: `http://support.oracle.com` for information on how to access product firmware and software.

For detailed instructions on how to access, download, and apply the newest firmware and software, see the Sun Blade 6000 Virtualized 40 GbE Network Express Module User's Guide.

Supported Operating Systems

The following operating systems are supported for the NEM.

- Oracle Solaris 10 Operating System (OS) 09/10 (64-bit) with patches or newer releases and Oracle Solaris 11 OS.
- Oracle Linux (OEL):
  - OEL 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, and 5.10 and beyond. 6.0, 6.1, 6.2, 6.2, 6.3, 6.4, 6.5 and beyond.

    - OEL UEK 5.6, 5.7, 5.8, 5.9, and 5.10 and beyond. 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 and beyond.
- Red Hat Enterprise Linux (RHEL) 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 6.0, 6.1, 6.2, 6.3, 6.4, and 6.5.
- SUSE Linux Enterprise Server (SLES):
    - 11 SP1 and 11 SP2, 11SP3.
- Windows 2008:
    - R2 (64-bit).
    - 2008 SP2 (64-bit).
- VMware:
    - ESX 4.0 U1 to U4, ESX 4.1 U1 to U3, ESX 5.0, ESX 5.1.
    - ESXi 4.0 U1 to U4, ESXi 4.1 U1 to U3, ESXi 5.0 U1 and U2, and ESXi 5.1.
- Oracle VM 3.01, 3.02, 3.03, 3.1.1, 3.2.x, and 3.3.x.

Supported Drivers

- Solaris `sxge` driver

Note – This driver is not in Oracle Solaris 10 OS versions. The driver must be downloaded separately through the firmware 1.0 update or newer releases.

- Linux `sxge` and `sxgevf` drivers
- VMware driver
- Windows drivers

For information, refer to the README files included in the download package and to the *Sun Blade 6000 Virtualized 40 GbE Network Express Module User's Guide*.

Supported Hardware

- "Server and Storage Modules" on page 5
- "Chassis and Midplane" on page 6

Server and Storage Modules

The following table lists the supported storage and server modules and associated fabric express modules (FEMs) and RAID Expansion Modules (REMs) that are supported for use with the NEM.

Note – The Sun Blade Storage Module M2 is the only storage module that is supported for use with the NEM.

Note – The NEM is compatible only with the A90-D and 7105379 version of the Sun Blade 6000 Chassis.

The Sun Blade 6000 Virtualized 40 GbE Network Express Module cannot be used with other NEMs (no mixing).

Blade and Server Modules	Supported FEM	Supported REM
SPARC T4-1B Server	7100283 (ATO) 7100633 (PTO)	SG- or SGX- SAS6-REM-Z
SPARC T3-1B Server	7100283 (ATO) 7100633 (PTO)	SGX-SAS6-REMZ
Sun Blade Server X6270 M2	7100283 (ATO) 7100633 (PTO)	SGX-SAS6-R-REMZ SGX-SAS6-REM-Z
Sun Blade Storage Module M2	7100283 (ATO) 7100633 (PTO)	SGX-SAS6-R-REMZ SGX-SAS6-REM-Z
Netra SPARC Server Modules		
Netra SPARC T3-1B server module	7100283 (ATO) 7100633 (PTO)	SG- or SGX- SAS6-REM-Z
Netra SPARC T4-1B server module	7100283 (ATO) 7100633 (PTO)	SG- or SGX- SAS6-REM-Z
Sun Netra X6270 M2 server module	7100283 (ATO) 7100633 (PTO)	SG- or SGX- SAS6-REM-Z
Sun Netra X6270 M3 server module **(Firmware 1.020 only)**	7100283 7100633	SG- or SGX- SAS6-REM-Z
Netra Blade X3-2B server module	7100283 (ATO) 7100633 (PTO)	SG-SAS6-REM-Z or SG-SAS6-R-REM-Z

Note – The FEM must be installed in FEM 0 and FEM 1 PCIe-2 Pass-Through FEM motherboard connectors.

Note – The SPARC T3-1B Server Module only supports PCIe Gen1.

Chassis and Midplane

The NEM must be installed in a Sun Blade 6000 Modular System or a Sun Netra 6000 Modular System chassis with a PCIe 2.0 midplane and minimum Oracle ILOM version 3.0.16.14 (included in software release 4.1).

You can check that the chassis has the PCIe 2.0 midplane by referring to procedures in the *Sun Blade 6000 Virtualized 40 GbE Network Express Module User's Guide*.

If your chassis has not yet been installed and configured, read the chassis *Installation Guide* before installing and configuring a NEM.

The chassis *Installation Guide* might be packaged with the chassis. You can also find this and other documents at:

Sun Blade 6000 Modular System:

http://docs.oracle.com/cd/E19938-01

Sun Netra 6000 Modular System:

http://docs.oracle.com/cd/E19945-01/

Hardware and Networking Issues

The following lists the current hardware issues.

Issue	Workaround?
"sxge Device Corresponding to Port 1 Cannot Communicate with External Hosts in 40G or 1G Mode" on page 7	Yes
"CMM Minimum Version and CMM ILOM Upgrade Requirement (7046303)" on page 8	Yes
"Cannot Unload sxge When Interfaces are Unplumbed (7045733)" on page 8	Yes

`sxge` Device Corresponding to Port 1 Cannot Communicate with External Hosts in 40G or 1G Mode

In 40GbE or 1GbE mode, blades in a C10 chassis can communicate with each other over sxge interfaces corresponding to both ports. They cannot communicate with external hosts over the sxge interface corresponding to port-1.

To allow blade-to-blade communication over port 1, execute the following command at the NEM CLI:

```
set port 1 -l up
```

In 10GbE mode, the blades can communicate with each other as well as external hosts over the sxge interfaces corresponding to both ports.

CMM Minimum Version and CMM ILOM Upgrade Requirement (7046303)

In earlier releases of the Sun Blade 6000 chassis, a non-conductive washer was used on the mounting hole screw that holds the PCB to the CMM chassis. Grounding shapes are available on the PCB, but the non-conductive washer prevents the screw from grounding the PCB to the chassis here. This prevents energy, which makes it to the PCB, from returning back to the chassis ground (and allows the energy to travel on to the midplane).

If ordering a new chassis with a Sun Blade 6000 Virtualized 40 GbE Network Express Module preinstalled, you will receive the updated CMM installed in the chassis.

If installing a Sun Blade 6000 Virtualized 40 GbE Network Express Module into an earlier release of the Sun Blade 6000 chassis, you might have to replace the CMM and upgrade the CMM ILOM software.

To determine if you need to replace the CMM and upgrade the CMM ILOM software, check the CMM part number by using the instructions in "Before Installing a NEM" in the *Sun Blade 6000 Virtualized 40 GbE Network Express Module User's Guide*.

Cannot Unload `sxge` When Interfaces are Unplumbed (7045733)

On SPARC T3-1B blades running Oracle Solaris 10 (09/10) or (08/11), sxge module cannot be unloaded even when all `sxge` interfaces are unplumbed.

▼ Workaround

- **Reboot the SPARC blades when you want to load a new `sxge` driver.**

Operating System Issues

The following lists known operating system issues.

Issue	Workaround?
"PCI Correctable Errors Might Occur When Using NEM (7012350 and 7064505)" on page 10	Yes
"Hot Plug is Not Supported by Windows 2008 R2 with Sun Blade X6270 M2 and NEM (7050066)" on page 10	Yes
"Sometimes sxge Ports Fail to Enumerate During Hot-plug with Sun Blade X6270 M2 Blades (7087921)" on page 11	Yes

Hot Plug is Not Supported by VMware

Upon hot insertion of a NEM, VMware OS fails to recognize the NEM because of the PCIe bridge. (The Sun Blade 6000 Virtualized 40 GbE Network Express Module has a PCIe switch with two downstream ports and one upstream port.)

Hot plug insertion of the NEM into a Sun Blade 6000 Chassis (C10 Chassis) will fail on Sun Blade X6270 M2 Server Module running VMware. The NEM will not be detected by the blade.

▼ Workaround

- **Either reboot the OS after hot plugging NEM into the chassis or gracefully shutdown the OS before inserting the NEM, then bring the system back up.**

PCI Correctable Errors Might Occur When Using NEM (7012350 and 7064505)

Under heavy load conditions, occasionally PCI correctable errors might occur when using the NEM. These errors do not affect the operation of the NEM, and you can ignore these errors.

Hot Plug is Not Supported by Windows 2008 R2 with Sun Blade X6270 M2 and NEM (7050066)

Upon hot insertion of a NEM, Windows OS fails to recognize the NEM because of the PCIe bridge. (The Sun Blade 6000 Virtualized 40 GbE Network Express Module has a PCIe switch with two downstream ports and one upstream port.)

Hot plug insertion of the NEM into a Sun Blade 6000 Chassis (C10 Chassis) will fail on Sun Blade X6270 M2 Server Module running Windows 2008 R2. The NEM will not be detected by the blade.

▼ Workaround

- **Either reboot the OS after hot plugging NEM into the chassis or gracefully shutdown the OS before inserting the NEM, then bring the system back up.**

Sometimes `sxge` Ports Fail to Enumerate During Hot-plug with Sun Blade X6270 M2 Blades (7087921)

The Sun Blade X6270 M2 Server might fail to detect the NEM after a hot-plug insertion into the chassis.

- "Oracle Solaris OS" on page 11
- "Oracle Linux OS" on page 13

Oracle Solaris OS

Two indications occur when the NEM is detected properly.

When the `pcitool -v` command is run, output similar to the following is reported:

```
# pcitool -v | grep 207
Device ID: 2070
Device ID: 2070
Device ID: 2070
Device ID: 2078
Device ID: 2078
```

If the driver is installed, you can successfully plumb the interface without any error messages, as in the following example

```
bash-3.00# ifconfig sxge0 plumb up
bash-3.00#
bash-3.00# ifconfig -a
lo0: flags=2001000849<UP,LOOPBACK,RUNNING,MULTICAST,IPv4,VIRTUAL>
mtu 8232 index 1
   inet 127.0.0.1 netmask ff000000
igb0: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4> mtu 1500
index 2
   inet 10.134.167.26 netmask ffffff00 broadcast 10.134.167.255
   ether 0:21:28:bc:7:ac
sxge0: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4> mtu
1500 index 9
   inet 0.0.0.0 netmask ff000000
   ether 0:21:28:c6:ff:c6
```

If none of these indications is shown, then the issue is present on the blades.

▼ Workaround

1. **Reboot the affected blades.**
2. **Verify that the** `pcitool -v` **output is similar to the following:**

```
# pcitool -v | grep 207
Device ID: 2070
Device ID: 2070
Device ID: 2070
Device ID: 2078
Device ID: 2078
```

3. **Verify that the** `modinfo` **output is similar to the following:**

```
# modinfo | grep sxge
168 ffffffffee5735f8 149b8 258 1 sxge (SOL 10/40G Ethernet 1.43)
```

4. **Verify that the `ifconfig -a` output is similar to the following:**

```
# ifconfig -a
lo0: flags=2001000849<UP,LOOPBACK,RUNNING,MULTICAST,IPv4,VIRTUAL>
mtu 8232 index 1
   inet 127.0.0.1 netmask ff000000
igb0: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4> mtu 1500
index 2
   inet 10.134.167.112 netmask ffffff00 broadcast 10.134.167.255
   ether 0:21:28:a7:9a:ac
sxge0: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4> mtu
1500 index 3
   inet 192.168.100.112 netmask ffffff00 broadcast 192.168.100.255
   ether 0:21:28:c6:ff:e6
sxge1: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4> mtu
1500 index 5
   inet 192.168.110.112 netmask ffffff00 broadcast 192.168.110.255
   ether 0:21:28:c7:a:e
sxge2: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4> mtu
1500 index 4
   inet 192.168.200.112 netmask ffffff00 broadcast 192.168.200.255
   ether 0:21:28:c7:0:18
sxge3: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4> mtu
1500 index 6
   inet 192.168.210.112 netmask ffffff00 broadcast 192.168.210.255
   ether 0:21:28:c7:a:40
```

After you complete this procedure, the NEM can be configured and used. If the issue persists, please contact your Oracle Service representative.

Oracle Linux OS

Two indications occur when the NEM is detected properly.

When the `lspci -v` command is run, output similar to the following is reported:

```
# lspci -n |grep 2078
1b:00.0 0200: 108e:2078 (rev 01)
1c:00.0 0200: 108e:2078 (rev 01)
```

If the driver is installed, when the `ifconfig -a` command is run, ethx device associated with the NEM is shown in the output:

```
# ifconfig -a
eth0      Link encap:Ethernet  HWaddr 00:21:28:57:3E:43
   inet addr:10.134.172.42  Bcast:10.134.172.255
      Mask:255.255.255.0
   inet6 addr: fe80::221:28ff:fe57:3e43/64 Scope:Link
   UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
   RX packets:1664879 errors:0 dropped:0 overruns:0 frame:0
   TX packets:286457 errors:0 dropped:0 overruns:0 carrier:0
   collisions:0 txqueuelen:1000
   RX bytes:1021881508 (974.5 MiB)  TX bytes:34428397 (32.8 MiB)
   Memory:fafe0000-fb000000

eth1      Link encap:Ethernet  HWaddr 00:21:28:57:3E:42
   BROADCAST MULTICAST  MTU:1500  Metric:1
   RX packets:0 errors:0 dropped:0 overruns:0 frame:0
   TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
   collisions:0 txqueuelen:1000
   RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
   Memory:faf60000-faf80000

eth2      Link encap:Ethernet  HWaddr FA:DE:00:00:FC:0F
   inet6 addr: fe80::f8de:ff:fe00:fc0f/64 Scope:Link
   UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
   RX packets:0 errors:0 dropped:0 overruns:0 frame:0
   TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
   collisions:0 txqueuelen:1000
   RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
   Interrupt:177

eth3      Link encap:Ethernet  HWaddr FA:CE:00:00:FC:0F

   inet6 addr: fe80::f8ce:ff:fe00:fc0f/64 Scope:Link
   UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
   RX packets:58080 errors:0 dropped:0 overruns:0 frame:0
   TX packets:26224 errors:0 dropped:0 overruns:0 carrier:0
   collisions:0 txqueuelen:1000
   RX bytes:6721340 (6.4 MiB)  TX bytes:4038704 (3.8 MiB)
   Interrupt:169

lo        Link encap:Local Loopback
   inet addr:127.0.0.1  Mask:255.0.0.0
   inet6 addr: ::1/128 Scope:Host
   UP LOOPBACK RUNNING  MTU:16436  Metric:1
   RX packets:582 errors:0 dropped:0 overruns:0 frame:0
   TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
```

```
    collisions:0 txqueuelen:0
    RX bytes:83168 (81.2 KiB)  TX bytes:83168 (81.2 KiB)

sit0      Link encap:IPv6-in-IPv4
    NOARP  MTU:1480  Metric:1
    RX packets:0 errors:0 dropped:0 overruns:0 frame:0
    TX packets:26224 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:1000
    RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
```

If none of these indications are shown, then the issue is present on the blades.

▼ Workaround

1. **Reboot the affected blades.**
2. **Verify that the** `lspci -v` **output is similar to the following:**

```
# lspci -n |grep 2078
1b:00.0 0200: 108e:2078 (rev 01)
1c:00.0 0200: 108e:2078 (rev 01)
```

3. **Verify that the** `lsmod | grep sxge` **output is similar to the following:**

```
# lsmod | grep sxge
sxge                   70408  0
```

4. **Verify that the** `ifconfig -a` **output is similar to the following:**

```
# ifconfig -a
eth0      Link encap:Ethernet  HWaddr 00:21:28:57:3E:43
    inet addr:10.134.172.42  Bcast:10.134.172.255
       Mask:255.255.255.0
    inet6 addr: fe80::221:28ff:fe57:3e43/64 Scope:Link
    UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
    RX packets:1664879 errors:0 dropped:0 overruns:0 frame:0
    TX packets:286457 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:1000
    RX bytes:1021881508 (974.5 MiB)  TX bytes:34428397 (32.8 MiB)
    Memory:fafe0000-fb000000

eth1      Link encap:Ethernet  HWaddr 00:21:28:57:3E:42
    BROADCAST MULTICAST  MTU:1500  Metric:1
    RX packets:0 errors:0 dropped:0 overruns:0 frame:0
    TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
```

```
   collisions:0 txqueuelen:1000
   RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
   Memory:faf60000-faf80000

eth2      Link encap:Ethernet  HWaddr FA:DE:00:00:FC:0F
   inet6 addr: fe80::f8de:ff:fe00:fc0f/64 Scope:Link
   UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
   RX packets:0 errors:0 dropped:0 overruns:0 frame:0
   TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
   collisions:0 txqueuelen:1000
   RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
   Interrupt:177

eth3      Link encap:Ethernet  HWaddr FA:CE:00:00:FC:0F

   inet6 addr: fe80::f8ce:ff:fe00:fc0f/64 Scope:Link
   UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
   RX packets:58080 errors:0 dropped:0 overruns:0 frame:0
   TX packets:26224 errors:0 dropped:0 overruns:0 carrier:0
   collisions:0 txqueuelen:1000
   RX bytes:6721340 (6.4 MiB)  TX bytes:4038704 (3.8 MiB)
   Interrupt:169

lo        Link encap:Local Loopback
   inet addr:127.0.0.1  Mask:255.0.0.0
   inet6 addr: ::1/128 Scope:Host
   UP LOOPBACK RUNNING  MTU:16436  Metric:1
   RX packets:582 errors:0 dropped:0 overruns:0 frame:0
   TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
   collisions:0 txqueuelen:0
   RX bytes:83168 (81.2 KiB)  TX bytes:83168 (81.2 KiB)

sit0      Link encap:IPv6-in-IPv4
   NOARP  MTU:1480  Metric:1
   RX packets:0 errors:0 dropped:0 overruns:0 frame:0
   TX packets:26224 errors:0 dropped:0 overruns:0 carrier:0
   collisions:0 txqueuelen:1000
   RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
```

5. **Use the `ethtool -i` command to verify that the `eth`*x* device associated with the NEM is shown in the output.**

```
# ethtool -i eth3
driver: sxge
version: 0.01202011
firmware-version:
bus-info: 0000:1b:00.0
```

The driver used by the eth*x* device associated with the NEM is `sxge`.

After you complete this procedure, the NEM can be configured and used. If the issue persists, please contact your Oracle Service representative.

Oracle ILOM and LDOM Issues

The following lists known Oracle ILOM and LDOM issues.

Issue	Workaround?
"Highest Lane Number in show peu Output is Incorrect (7039713)" on page 20	Yes
"Unable to Access NEM by Clicking on Graphic from the CMM ILOM Web GUI (7099903)" on page 20	Yes

ILOM Web GUI Reports Error: "Command Failed" (16092938)

The "Prepare to Remove" action in ILOM web GUI reports "Error: Command Failed" message even though Sun Blade 6000 Virtualized 40 GbE NEM successfully transitions to `prepare_to_remove_status=Ready` with the blue SIS LED on (Amber LED is off).

```
-> cd /CH/NEMx
-> set prepare_to_remove_action=true
```

where NEM*x* is the NEM 0 or 1.

▼ Workaround

- **From the CMM CLI interface, perform the "Prepare to Remove" action.**

Highest Lane Number in `show peu` Output is Incorrect (7039713)

The highest lane number in the output of `show peu` command on NEM CLI is incorrect.

```
> show peu
PEU 0 width=4 speed=5G  recv_errors(0-8): 00 00 00 00-00 00 00 00
PEU 1 width=8 speed=5G  recv_errors(0-8): 00 00 00 00-00 00 00 00
PEU 2 width=8 speed=5G  recv_errors(0-8): 00 00 00 00-00 00 00 00
PEU 3 width=4 speed=5G  recv_errors(0-8): 01 01 01 01-01 01 01 01
PEU 4 width=8 speed=5G  recv_errors(0-8): 01 01 01 01-01 01 01 01
PEU 5 width=8 speed=5G  recv_errors(0-8): 00 00 00 00-00 00 00 00
PEU 6 width=8 speed=5G  recv_errors(0-8): 01 01 01 01-01 01 01 01
PEU 7 width=8 speed=5G  recv_errors(0-8): 00 00 00 00-00 00 00 00
PEU 8 width=8 speed=5G  recv_errors(0-8): 01 01 01 01-01 01 01 01
PEU 9 width=8 speed=5G  recv_errors(0-8): 00 00 00 00-00 00 00 00
```

Read the output recv_errors (0-8) as recv_errors (0-7). Functionality is not affected.

Unable to Access NEM by Clicking on Graphic from the CMM ILOM Web GUI (7099903)

When you log in to the CMM ILOM and click on the graphic of the NEM, the web interface is not displayed.

▼ Workaround

- **From the CMM ILOM web interface, go to System Information —> Components to display the product for selection.**