

Sun Management Center 4.0 Version 7 Add-On Software

Release Notes For SPARC Enterprise, Sun Fire,
Sun Blade, Sun Ultra, Netra, Sun Netra, and
SPARC T3 Systems, Netra SPARC T3-1 Server,
and Netra SPARC T4-1 Server



Part No.: E23101-02
January 2012

Copyright © 2009, 2012, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related software documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS. Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle America, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications which may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. UNIX is a registered trademark licensed through X/Open Company, Ltd.

This software or hardware and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Copyright © 2009, 2012, Oracle et/ou ses affiliés. Tous droits réservés.

Ce logiciel et la documentation qui l'accompagne sont protégés par les lois sur la propriété intellectuelle. Ils sont concédés sous licence et soumis à des restrictions d'utilisation et de divulgation. Sauf disposition de votre contrat de licence ou de la loi, vous ne pouvez pas copier, reproduire, traduire, diffuser, modifier, breveter, transmettre, distribuer, exposer, exécuter, publier ou afficher le logiciel, même partiellement, sous quelque forme et par quel que procédé que ce soit. Par ailleurs, il est interdit de procéder à toute ingénierie inverse du logiciel, de le désassembler ou de le décompiler, excepté à des fins d'interopérabilité avec des logiciels tiers ou tel que prescrit par la loi.

Les informations fournies dans ce document sont susceptibles de modification sans préavis. Par ailleurs, Oracle Corporation ne garantit pas qu'elles soient exemptes d'erreurs et vous invite, le cas échéant, à lui en faire part par écrit.

Si ce logiciel, ou la documentation qui l'accompagne, est concédé sous licence au Gouvernement des Etats-Unis, ou à toute entité qui délivre la licence de ce logiciel ou l'utilise pour le compte du Gouvernement des Etats-Unis, la notice suivante s'applique :

U.S. GOVERNMENT RIGHTS. Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle America, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

Ce logiciel ou matériel a été développé pour un usage général dans le cadre d'applications de gestion des informations. Ce logiciel ou matériel n'est pas conçu ni n'est destiné à être utilisé dans des applications à risque, notamment dans des applications pouvant causer des dommages corporels. Si vous utilisez ce logiciel ou matériel dans le cadre d'applications dangereuses, il est de votre responsabilité de prendre toutes les mesures de secours, de sauvegarde, de redondance et autres mesures nécessaires à son utilisation dans des conditions optimales de sécurité. Oracle Corporation et ses affiliés déclinent toute responsabilité quant aux dommages causés par l'utilisation de ce logiciel ou matériel pour ce type d'applications.

Oracle et Java sont des marques déposées d'Oracle Corporation et/ou de ses affiliés. Tout autre nom mentionné peut correspondre à des marques appartenant à d'autres propriétaires qu'Oracle.

AMD, Opteron, le logo AMD et le logo AMD Opteron sont des marques ou des marques déposées d'Advanced Micro Devices. Intel et Intel Xeon sont des marques ou des marques déposées d'Intel Corporation. Toutes les marques SPARC sont utilisées sous licence et sont des marques ou des marques déposées de SPARC International, Inc. UNIX est une marque déposée concédée sous licence par X/Open Company, Ltd.

Ce logiciel ou matériel et la documentation qui l'accompagne peuvent fournir des informations ou des liens donnant accès à des contenus, des produits et des services émanant de tiers. Oracle Corporation et ses affiliés déclinent toute responsabilité ou garantie expresse quant aux contenus, produits ou services émanant de tiers. En aucun cas, Oracle Corporation et ses affiliés ne sauraient être tenus pour responsables des pertes subies, des coûts occasionnés ou des dommages causés par l'accès à des contenus, produits ou services tiers, ou à leur utilisation.



Adobe PostScript

Contents

Sun Management Center 4.0 Version 7 Add-On Software Release Notes	1
What's New in This Release	1
Related Documentation	2
Supported Software Environments	2
Supported Systems	3
Recommended Patches	5
Obtaining the Add-On Software	5
Installation	6
▼ Uninstall Previous Versions of the Add-On Software	7
▼ Install Sun Management Center 4.0 Software	7
▼ Install the Sun Management Center 4.0 Version 7 Add-On Software	7
Issues and Workarounds	8
Physical Components Fan Table is Empty on Netra SPARC T3-1 Servers (CR 7019466)	8
Error Message: Unable to Launch the Application due to Unavailable Sunconnection.sun.com URL (CR 7029129)	9
Netra SPARC T3-1 and Netra SPARC T4-1 Servers Indicator Table Reporting Incorrect Status for HDD Hot-plugged Event (CR 7020337)	9
Netra SPARC T3-1 and Netra SPARC T4-1 Servers Voltage/Current Sensors Reporting Incorrect Operational Status Following a Power Supply Fan Fault (CR 7020508)	9

Netra SPARC T3-1 and Netra SPARC T4-1 Servers, Additional Information Field Reports Incorrect Fatal Threshold When the Power Supply is Removed (CR 7029653)	10
Alarm Tab in Details Window Is Not in Sync With Agent (CR 6548517)	10
Console Falsely Displays Description Information (CR 6585734)	10
XAUI Cards Are Not Listed in All Applicable Tables (CR 6604020 and 6971521)	10
Console Does Not Display SAN (MPXIO) Disks on Certain Systems (CR 6655853)	11
Processors Table Does Not Appear in Web Console (CR 6662409)	11
System Table and Media Devices Table Show the Wrong Number of HDD (CR 6665401)	11
Sun Management Center Displays All Disks as Not Configured With Logical Domains Set Up (CR 6666611)	12
Sun Management Center Updates Spare/No-intr Processors Incorrectly on Logical Domains System (CR 6730867)	12
ILOM Should Convert PS Input Voltage Correctly Before Sending It (CR 6735038)	12
Environmental Sensor Faults Not Reported Correctly at Threshold Values (CR 6738914)	13
Processors Table Changes With Configuring Primary Domain (CR 6751418)	13
Network Interfaces Table Does Not Update When NIC Is Hot-Plugged (CR 6756972)	13
Information In Media Devices Table Is Incomplete for all T3 Series Servers and Netra SPARC T4-1 Server (CR 6963594)	14
ILOM Sends Truncated Serial Numbers for FRUs (CR 6967351)	14
DIMM Serial Numbers Returned Incorrectly (CR 6981291)	15

Sun Management Center 4.0 Version 7 Add-On Software Release Notes

This document contains release notes for Oracle's Sun Management Center 4.0 Version 7 add-on software (also known as the *ELP Config-Reader* or *Common Config-Reader*) for Oracle's SPARC Enterprise, Sun Fire, Sun Blade, Sun Ultra, Netra, Sun Netra, SPARC T3 systems, and the Netra SPARC T4-1 server.

The document includes the following sections:

- ["What's New in This Release" on page 1](#)
- ["Related Documentation" on page 2](#)
- ["Supported Software Environments" on page 2](#)
- ["Supported Systems" on page 3](#)
- ["Recommended Patches" on page 5](#)
- ["Obtaining the Add-On Software" on page 5](#)
- ["Installation" on page 6](#)
- ["Issues and Workarounds" on page 8](#)

What's New in This Release

Sun Management Center 4.0 Version 7 Update 4 add-on software provides support for the Oracle Netra SPARC T4-1 server.

Related Documentation

Use of the functionality provided by the Sun Management Center 4.0 Version 7 add-on software is described in *Sun Management Center 3.6 Supplement for the Sun Fire, Sun Blade, and Netra Systems* (819-1153). That document applies to systems that are using this software with Sun Management Center 4.0.

These release notes contain information to supplement the *Sun Management Center 4.0 Installation and Configuration Guide* (820-2215). Also refer to the preface of that document for a full list of related documentation for Sun Management Center 4.0.

You can find Sun Management Center 4.0 documentation and add-on software release notes at:

http://www.oracle.com/pls/topic/lookup?ctx=Sun_MC4.0

Supported Software Environments

The following table lists the software versions required for Sun Management Center 4.0 Version 7 add-on software.

Note – The Sun Management Center server and agent systems must use the same version of the add-on software. Sun Management Center does not run on Solaris 11.

TABLE 1 Minimum Required Software Versions

Host	Required Software	Version
Server	Oracle Solaris Operating System *†	8, 9, 10. For x86 support, server and console require Oracle Solaris 10 11/06 or higher versions of Solaris 10.
	Sun Management Center server base software	4.0 release.
	Sun Management Center ELP Config-Reader Monitoring add-on product software	4.0 Version 7 or later.
Monitored platform	Oracle Solaris Operating System *†	8, 9, 10.
	Sun Management Center base software	4.0 release.

TABLE 1 Minimum Required Software Versions (*Continued*)

Host	Required Software	Version
	Sun Management Center ELP Config-Reader Monitoring add-on product software	4.0 Version 7 or higher.
Workstations or common network location (for console layer)	Oracle Solaris Operating System* for SPARC	8, 9, 10.
	Oracle Solaris Operating System* for x86	Server supported Oracle Solaris 10 11/06 OS or higher versions of Solaris 10. Console Oracle Solaris 9 & Oracle Solaris 10 11/06 OS or higher versions of Solaris 10.
	Sun Management Center console base software	4.0 release.

* Oracle Solaris Operating System distribution installed on the system must be at least "End User Systems Support."

† The Oracle Solaris Operating System version is dependent on the supported platform. Refer to the platform documentation for details of the Oracle Solaris version supported by your platform.

Supported Systems

Sun Management Center 4.0 Version 7 add-on software supports the following platforms.

Netra platforms:

- Netra 210 server
- Netra 240 server
- Netra 440 server
- Netra SPARC T3-1 server
- Netra SPARC T4-1 Server
- Sun Netra T2000 server
- Sun Netra T5220 server
- Sun Netra T5440 server

Sun Blade platforms:

- Sun Blade 1500 workstation
- Sun Blade 2500 workstation
- Sun Blade T6300 server
- Sun Blade T6320 server
- Sun Blade T6340 server

Sun Ultra platforms:

- Sun Ultra 25 workstation
- Sun Ultra 45 workstation

Sun Fire platforms:

- Sun Fire V125 server
- Sun Fire V210 server
- Sun Fire V215 server
- Sun Fire V240 server
- Sun Fire V245 server
- Sun Fire V250 server
- Sun Fire V440 server
- Sun Fire V445 server
- Sun Fire T1000 server (both single- and dual-drive versions)
- Sun Fire T2000 server

Sun SPARC Enterprise platforms:

- Sun SPARC Enterprise T1000 server
- Sun SPARC Enterprise T2000 server
- Sun SPARC Enterprise T5120 server
- Sun SPARC Enterprise T5140 server
- Sun SPARC Enterprise T5220 server
- Sun SPARC Enterprise T5240 server
- Sun SPARC Enterprise T5440 server

SPARC T3 platforms:

- SPARC T3-1 server
- SPARC T3-1B server
- SPARC T3-2 server
- SPARC T3-4 server

Recommended Patches

Oracle Solaris software patches and Sun Management Center patches are available for the core Sun Management Center 4.0 application and for the add-on software. You must install all the patches required for your operating system before installing Sun Management Center 4.0 software and this add-on.

To download the latest version of these patches, and to find the current list of required patches, go to the My Oracle Support web site:

<https://support.oracle.com/>

Refer to the hardware and software documentation for current information about required patches and updates on those systems or software.

For more information about the patches required for the latest update to Sun Management Center, see the *Sun Management Center 4.0 Software Release Notes* (820-2216).

Obtaining the Add-On Software

The Sun Management Center add-on software packages are provided as a zipped file on the software download site:

<https://support.oracle.com/>

To download the software Update, follow this procedure:

- 1. Select a language and click the Sign In button.**
- 2. Type your username and password and Click the Go button. (Or press the Return or Enter key.)**
- 3. Click the Patches & Updates tab.**
- 4. In the Patch Search menu, click Product or Family (Advanced Search).**

The Product, Release and Platform options and other menus are displayed.

- 5. In the Products field, type Sun Management Center.**
In the drop down menu, the Sun Management Center products are displayed.
- 6. In the Release menu, click the arrow next to the Sun Management Center folder.**

- a. In the release field, click the box to select Sun Management Center 4.0.
 - b. Click the Close button.
7. For the platform, leave the left menu set at Platform.
 - a. Use the right menu to click and select Oracle Solaris on SPARC 64-bit.
 - b. Click Close.
 8. Select the yellow Search menu.
 9. Click the box to select Sun Management Center 4.0 Version 7 Add-On Software - Solaris 8/9/10 SPARC.
-
- Note** – If you see two versions of the same add-on software you can select either package. The packages are identical.
-
- Note** – Although these software packages have “Patch IDs, they are not patches: they are the zip files with the Sun Management Center add-on software.
-
10. Click the yellow Download button.

Installation

You must install the core Sun Management Center 4.0 software *before* installing this Version 7 add-on software. Only install the Sun Management Center 4.0 Version 7 add-on software on core Sun Management Center 4.0 or later.

This Sun Management Center 4.0 Version 7 add-on software is installed using a separate zip file.



Caution – Use the installation and setup scripts provided with the Sun Management Center software. *Do not* manually add packages or change configuration files.

▼ Uninstall Previous Versions of the Add-On Software

- **Uninstall your previous version.**

Refer to the *Sun Management Center 4.0 Installation and Configuration Guide* (820-2215).

The appendixes of the guide provide instructions for uninstalling add-on products using the `es-guiuninst` wizard or the `es-uninst` command-line script. Uninstall only the ELP Config-Reader Monitor add-on software.

▼ Install Sun Management Center 4.0 Software

1. **Prepare for installation.**

Refer to the *Sun Management Center 3.6 Supplement for the Sun Fire, Sun Blade, and Netra Systems* (819-1153) for information about preparing for installation.

2. **Install the core Sun Management Center software.**

Refer to the *Sun Management Center Installation and Configuration Guide* (820-2215).

If you are updating a previous release of Sun Management Center software, read the information about updating the software from your currently installed release.

Note – During installation, a dialog box is displayed. The dialog box allows you to select from a list of add-on products. Do not select the ELP Config-Reader add-on product (also called the Common Config Reader). You will install the ELP Config-Reader in [“Install Sun Management Center 4.0 Software” on page 7](#).

3. **Install the add-on software.**

See [“Install the Sun Management Center 4.0 Version 7 Add-On Software” on page 7](#).

▼ Install the Sun Management Center 4.0 Version 7 Add-On Software

1. **Download the software.**

See [“Obtaining the Add-On Software” on page 5](#) for information about obtaining the software.

2. Unzip the zip file to a directory.

In this procedure, the path to that directory is named *downloadpath*.

3. Log in as superuser on the host system.

4. Change the directory to the path where the core Sun Management Center 4.0 software is installed.

The directory will look similar to this:

installed_directory/SUNWsymon/sbin

5. Run the `es-guinst` or `es-inst` installation script.

You are prompted to enter a pointer to the path named:

downloadpath/disk1/image/

where *downloadpath* is the directory path described in [Step 2](#). You then see a list of add-on products that you can install.

6. Choose the ELP Config-Reader Monitoring add-on product.

7. Complete the remaining steps included in the installation script.

8. Follow the steps to set up the software.

The installation wizard prompts you to set up the software. For more information, refer to the *Sun Management Center Installation and Configuration Guide* (820-2215).

Issues and Workarounds

This section describes software issues and workarounds known at the time of this release that you might notice or that can affect the operation of Sun Management Center 4.0 Version 7 add-on software. These issues are in addition to those identified in the *Sun Management Center Release Notes* for your version of core software.

Physical Components Fan Table is Empty on Netra SPARC T3-1 Servers (CR 7019466)

On Netra SPARC T3-1 servers, Sun Management Center does not report fan and Tachometer information.

Workaround: System firmware version 8.0.5 or later resolves this issue. Install the firmware update.

Error Message: Unable to Launch the Application due to Unavailable Sunconnection.sun.com URL (CR 7029129)

Two messages are displayed: "Unable to launch the application" and "Error: could not load the file/URL specified."

Workaround: None. You can ignore these messages. This does not affect Sun Management Center performance.

Netra SPARC T3-1 and Netra SPARC T4-1 Servers Indicator Table Reporting Incorrect Status for HDD Hot-plugged Event (CR 7020337)

When hot-plugging any hard disk drives in a Netra SPARC T3-1 and Netra SPARC T4-1 servers, incorrect status of the hot-plugged HDD may result. The status of the disk LEDs in the Indicators table continues to show a blue alarm even though the disk has been removed from the server.

Workaround: None.

Netra SPARC T3-1 and Netra SPARC T4-1 Servers Voltage/Current Sensors Reporting Incorrect Operational Status Following a Power Supply Fan Fault (CR 7020508)

On Netra SPARC T3-1 and Netra SPARC T4-1 servers, during a Power Supply (PS) Fan fault, Sun Management Center reports Operational Status as "Not Present" in the Voltage/Current Sensor table.

Workaround: None. You can ignore the "Not Present" report in the Voltage/Current sensor table.

Netra SPARC T3-1 and Netra SPARC T4-1 Servers, Additional Information Field Reports Incorrect Fatal Threshold When the Power Supply is Removed (CR 7029653)

The additional information field in the Voltage Sensor table reports: “Lower fatal Threshold exceeded” when the Power Supply (PS) is removed from Netra SPARC T3-1 and Netra SPARC T4-1 servers.

Workaround: None. You can safely ignore this message.

Alarm Tab in Details Window Is Not in Sync With Agent (CR 6548517)

This issue occurs when an alarm is already available against an item (such as a processor status, a disk error count, or a particular sensor value) and a new alarm occurs on the same item. The Alarm tab does not update the new alarm unless there is a change in the status value.

Workaround: None

Console Falsely Displays Description Information (CR 6585734)

When you create a new object without specifying description information, the Sun Management Center Console’s Info tab displays a Description field that includes another existing object’s description information, rather than displaying a blank Description field.

Workaround: Ensure that you include information in the Description field when creating new objects.

XAUI Cards Are Not Listed in All Applicable Tables (CR 6604020 and 6971521)

XAUI card interfaces are listed in the Network Interfaces table, but are not included in the Expansion Cards table or Other Components table. Also, the Locations table lists a PCI-E slot as Empty when a XAUI card is plugged into that slot.

Workaround: None.

Console Does Not Display SAN (MPXIO) Disks on Certain Systems (CR 6655853)

Sun Management Center is unable to show SAN disk info for certain systems, such as the Sun Fire V440 server.

Workaround: None.

Processors Table Does Not Appear in Web Console (CR 6662409)

If you use the Web Console (browser based `https://server_system:6789`) to view an agent system, the Hardware -> Config Reader -> Device Information node might not expand to show the tables within that node (Processors, Media Devices, Network Interfaces, Indicators, and Other Devices). No triangle icon appears beside the Device Information node, so it cannot be expanded.

Workaround: Use the Java GUI Console instead of the Web Console.

System Table and Media Devices Table Show the Wrong Number of HDD (CR 6665401)

A Sun Netra T2000 server configured with two HDD incorrectly displays four HDD on the system table and media devices table. The server displays the two nonexistent HDD in unconfigured status.

Workaround: Treat HDD2 and HDD3 as nonexistent on a Sun Netra T2000 server configured with two HDD.

Sun Management Center Displays All Disks as Not Configured With Logical Domains Set Up (CR 6666611)

With logical domains set up, the Sun Management Center Media Devices table shows `Not Configured` as the Availability status for all disks. The physical path and type of the disk are also not displayed on the table. Without logical domains set up, the correct status (`Running/Full power`) is displayed. This issue occurs on Sun SPARC Enterprise T2000 servers.

Workaround: Use the `cfgadm -al` command to determine the status of the disks in a logical domains environment.

Sun Management Center Updates `spare/No-intr` Processors Incorrectly on Logical Domains System (CR 6730867)

When a CPU is made `no-intr` or `spare` (via `psradm -n` and `psradm -s`), the status returned by the logical domains controller software is incorrect. When the CPU is `no-intr`, the returned status is `online`. When the CPU is `spare`, the returned status is `offline`.

Workaround: To determine the exact status of processors in a logical domains system, use the `psrinfo` command.

ILOM Should Convert PS Input Voltage Correctly Before Sending It (CR 6735038)

The Voltage Sensor table displays incorrect values for the input voltage of power supplies in SPARC T3 Series servers.

Workaround: Find the input voltage with this ILOM command:

```
-> show /SYS/PSX/V_IN value
```

Environmental Sensor Faults Not Reported Correctly at Threshold Values (CR 6738914)

When a temperature or voltage is a threshold value, a fault is not reported for a LowWarn (noncritical) value. A Lower non-critical threshold exceeded message is reported for a LowSoft (critical) value.

Workaround: None.

Processors Table Changes With Configuring Primary Domain (CR 6751418)

On a system with logical domains, Sun Management Center dynamically updates the Processors table while configuring the primary domain. The processors unallocated to the primary domain are forced to Unknown state in the configuration mode itself. Since Sun Management Center makes the changes dynamically and logical domains software makes the changes only on a subsequent power cycle, this leaves the two logical domains out of sync.

Workaround: Use the `psrinfo` command to check the correct state of processors in the configuration mode.

Network Interfaces Table Does Not Update When NIC Is Hot-Plugged (CR 6756972)

The Network Interfaces table is not updated when a network interface card (NIC) is hot-plugged into or out of a modular system.

Workaround: Restart the Sun Management Center agent after a NIC is hot-plugged to obtain a valid Network Interfaces table.

Information In Media Devices Table Is Incomplete for all T3 Series Servers and Netra SPARC T4-1 Server (CR 6963594)

For SPARC T3 Series servers, and the Netra SPARC T4-1 server, the Media Devices table does not display correct information on Availability (Configured/Not Configured) or Physical Path. In that table, the Operational Status information is correct. The Operational Status shown is correct if the device is Present or Not Present, along with a blue alarm if the device is not plugged in.

Workaround: None.

ILOM Sends Truncated Serial Numbers for FRUs (CR 6967351)

The serial numbers of FRUs are truncated to nine characters when ILOM sends the data via PCPDAQ to Sun Management Center. As a result, the Other Components table only lists the first nine characters of the serial number for each component (with the exception of the midplane of a server module).

Workaround: Obtain the complete serial number for a component with this ILOM CLI command.

The example below shows how to find the fru serial:

```
-> show component-NAC-name fru_serial_number
```

For example to find the serial number of the motherboard, type:

```
-> show /SYS/MB_ENV

/SYS/MB_ENV
Targets:

Properties:
  type = PROM
  fru_name = ES-SEG
  fru_description = Madrid ES Segment
  fru_manufacturer = 5030 CELESTICA CORP. SRIACHA CHONBURI TH
  fru_version = 01
  fru_part_number = 999-9999
  fru_serial_number = 0810SCA-1033SCA001
```

DIMM Serial Numbers Returned Incorrectly (CR 6981291)

When a DIMM serial number is reported in the Memory Modules table, a vendor string might be included in the serial number.

Workaround: Obtain the correct serial number for the DIMM with this ILOM CLI command:

```
-> show DIMM-NAC-name fru_serial_number
```

