



Sun N1 System Manager 1.1 Release Notes

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Preface

The *Sun N1 System Manager 1.1 Release Notes* contains information and problem details that were not available until immediately after the release of Sun N1 System Manager 1.1.

Who Should Use This Book

This guide is intended for system administrators who are responsible for installing or upgrading the N1 System Manager software and hardware, and for personnel who use the N1 System Manager.

Related Documentation

- *Sun N1 System Manager 1.1 Introduction*
- *Sun N1 System Manager 1.1 Site Preparation Guide*
- *Sun N1 System Manager 1.1 Installation and Configuration Guide*
- *Sun N1 System Manager 1.1 Administration Guide*
- *Sun N1 System Manager 1.1 Command Line Reference Manual*
- Hardware documentation:
<http://www.sun.com/products-n-solutions/hardware/docs/>

Documentation, Support, and Training

Sun Function	URL	Description
Documentation	http://www.sun.com/documentation/	Download PDF and HTML documents, and order printed documents
Support and Training	http://www.sun.com/supporttraining/	Obtain technical support, download patches, and learn about Sun courses

Typographic Conventions

The following table describes the typographic changes that are used in this book.

TABLE P-1 Typographic Conventions

Typeface or Symbol	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name%</code> you have mail.
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name%</code> su Password:
<i>AaBbCc123</i>	Command-line placeholder: replace with a real name or value	The command to remove a file is <i>rm filename</i> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . Perform a <i>patch analysis</i> . Do <i>not</i> save the file. [Note that some emphasized items appear bold online.]

Shell Prompts in Command Examples

The following table shows the default system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

TABLE P-2 Shell Prompts

Shell	Prompt
C shell prompt	machine_name%
C shell superuser prompt	machine_name#
Bourne shell and Korn shell prompt	\$
Bourne shell and Korn shell superuser prompt	#

Sun N1 System Manager 1.1 Issues

This chapter describes the Sun N1™ System Manager 1.1 issues that are known to be problems.

Feature and Software Support Notices

This section lists the features and software that are not supported in Sun N1 System Manager 1.1 release.

- The N1 System Manager product is localized only for Japanese. The browser interface and command line help are in English only.
- The following OSs are not currently supported by N1 System Manager on provisionable servers, even though the `create update` command lists them as OS types:
 - Red Hat Enterprise Linux WS 3.0
 - Red Hat Enterprise Linux WS 3.0, 64-bit
 - Red Hat Enterprise Linux WS 4.0
 - Red Hat Enterprise Linux WS 4.0, 64-bit

Job Queuing Behavior in Sun N1 System Manager 1.1

Each type of job in the N1 System Manager has a weight associated with it. The weight is a reflection of the load created by the job on the system resources. There is also a global limit on how much total load can be placed on the system. The following table provides a listing of the weight for each type of (user level) job. The maximum load permitted is 1000.

TABLE 1-1 Job Weight Values

Task	Weight
OS Deployment	500
Package Deployment	500
Package Uninstall	500
Discovery	200
Firmware Deployment	500
Remote Command Execution	200
Job Deletion	400
Create OS	1000
Reset Server	200
Server Power Off	200
Server Power On	200
Server Refresh	200
Set Server Feature	200
Remove Server	100
Add Server	100

The total load is the sum of the loads of all the current running jobs. The system will compare the current total load with the maximum permitted load at the following points in time:

- After enqueueing a new job
- After completion or stopping a running job

If the difference between the current total load and the maximum permitted load is great enough to accommodate the job at the head of the job queue, then that job is promoted to a running state, else it is left in the queued state. The current total load governs the permissible concurrent running job mix within the system.

For example, there can only be two OS Deployment jobs running at one time ($500 + 500 \leq 1000$) or one OS Deployment job and two Server Power Off jobs ($500 + 200 + 200 \leq 1000$).

Copying a SUSE Linux Enterprise Server 9 SP1 OS Distribution from ISO Files

The following procedure describes how to copy the SLES 9 SP1 OS distribution to the management server.

Substitute *directory* with the name of the directory in which you have stored the SLES9 SP1 ISO images.

1. Copy the SLES 9 distribution:

```
# nlsh create os sles9ul file
  /directory/SLES-9-i386-RC5-CD1.iso, /directory/SLES-9-i386-RC5-CD2.iso,
  /directory/SLES-9-i386-RC5-CD3.iso, /directory/SLES-9-i386-RC5-CD4.iso,
  /directory/SLES-9-i386-RC5-CD5.iso, /directory/SLES-9-i386-RC5-CD6.iso
```

Note – Wait for the Create OS command to complete before going to the next step.

2. Copy the SLES 9 Update 1 distribution:

```
# nlsh create os sles9ul file
  directory/SLES-9-SP-1-i386-RC5-CD1.iso, directory/SLES9/SLES-9-SP-1-i386-RC5-CD2.iso,
  directory/SLES-9-SP-1-i386-RC5-CD3.iso
```

Documentation Errata

This section describes known documentation errata.

Command Line Help

create osprofile Help

The list of default distribution groups is incorrect. For a Solaris profile, it should be the Entire Distribution plus OEM Support instead of Core. For a Red Hat profile, it should be Everything instead of Base.

delete os Help

An OS distribution can be deleted even if it is currently deployed on a provisionable server. However, an OS distribution cannot be deleted until all of its associated OS profiles are deleted.

delete osprofile Help

An OS profile can be deleted even if it is currently deployed on a provisionable server.

show os Command Help

The type value for SUSE LINUX Enterprise Server 9 is invalid. It should be suse instead of sles9.

Site Preparation Guide

This section describes known documentation errata in the *Sun N1 System Manager 1.1 Site Preparation Guide*.

Management Server Connection Section Applicable to Only the Separate Management, Provisioning, and Data Networks Configuration

“Management Server Connections” in *Sun N1 System Manager 1.1 Site Preparation Guide* is applicable only to the first reference configuration, “Separate Management, Provisioning, and Data Networks” in *Sun N1 System Manager 1.1 Site Preparation Guide*, including the note at the end of the section. Refer to the other reference configurations for connection information.

Combined Provisioning and Data Networks, and Combined Management, Provisioning, and Data Networks

The caution statement in “Combined Provisioning and Data Network, and a Separate Management Network” in *Sun N1 System Manager 1.1 Site Preparation Guide* and “Combined Provisioning, Data, and Management Network” in *Sun N1 System Manager 1.1 Site Preparation Guide* should read:



Caution – The N1 System Manager DHCP service must be the only DHCP service on the data network.

System Administration Guide

This section describes known documentation errata in the *Sun N1 System Manager 1.1 Administration Guide*.

Restoring the N1 System Manager Database and Configuration Files

The procedure “To Restore the N1 System Manager Database and Configuration Files” in *Sun N1 System Manager 1.1 Administration Guide* does not make it clear that you must first install an operating system and the N1 System Manager software on the replacement management server before starting the procedure. See Chapter 3, “Installing and Configuring an OS on the Management Server,” in *Sun N1 System Manager 1.1 Site Preparation Guide*, and the *Sun N1 System Manager 1.1 Installation and Configuration Guide* for details.

Factory-Default Polling Intervals Values are Incorrect

Table 5–3, *Factory-Configured Default Polling Intervals* in section “Changing Polling Intervals With the Monitoring Configuration File” in *Sun N1 System Manager 1.1 Administration Guide* lists the factory-default polling intervals as follows:

Hardware health	120 seconds
-----------------	-------------

OS resources	120 seconds
Network reachability	60 seconds

The factory–default polling intervals are 600 seconds:

Hardware health	600 seconds
OS resources	600 seconds
Network reachability	600 seconds

N1 System Manager Installation Issues

This section describes known N1 System Manager installation issues.

N1 System Manager Can Fail to Install on Sun Fire X4100 and X4200 Servers (6284696)

If the N1 System Manager is interrupted and restarted, the N1 System Manager installation can fail in step 5, “Install OS provisioning components”. If this issue occurs, a subsequent uninstall and reinstall of the N1 System Manager will fail.

The installation log file `/var/tmp/installer.log.latest` shows the following after initial installation failure:

```
Installing Master Server ...
Error! Missing file (looked for /opt/SUNWn1sps
  /N1_Grid_Service_Provisioning_System_5.1
  /server/postgres/postgresql.conf.in)!
print() on closed filehandle GEN0 at
  /usr/perl5/5.8.4/lib/i86pc-solaris-64int/IO/Handle.pm line 399.
SPS install failed with exit status: 256
-----

      2k. Which port should Postgres listen on?
          (default: 5434) [1024-65535] spawn id(3) is not a tty. Not changing mode
at /usr/perl5/site_perl/5.8.4/Expect.pm line 375.
admin
admin
admin

      ** Invalid Input.  Enter a numeric value for the port number.
```



```

2k. Which port should Postgres listen on?
    (default: 5434) [1024-65535] spawn id(3) is not a tty. Not changing mode
    at /usr/perl5/site_perl/5.8.4/Expect.pm line 375.
admin
admin
admin

```

```

** Invalid Input. Enter a numeric value for the port number.

```

```

2k. Which port should Postgres listen on?
    (default: 5434) [1024-65535

```

The installation log shows the following after uninstall and reinstall of the N1 System Manager software:

```

Error! Failed to initialize the database (exit value was 1).
Exiting..
print() on closed filehandle GEN0 at /usr/lib/perl5/5.8.0
/i386-linux-thread-multi/IO/Handle.pm line 395.
SPS install failed with exit status: 256

```

Workaround: Perform the workaround procedure below that is applicable to the operating system installed on your management server. Depending on how the installation error occurred, some of the workaround steps might not complete successfully. If a workaround step does not complete successfully, go to the next step.

Solaris based Sun Fire X4100 or X4200 management server:

1. Stop the server and agent.

```

# su - nlgsp -c "/opt/SUNWnlsp/N1_Service_Provisioning_System_5.1/server/bin/cr_server stop"
# su - nlgsp -c "/opt/SUNWnlsp/N1_Service_Provisioning_System/agent/bin/cr_agent stop"

```

2. Uninstall service provisioning manually.

```

# /opt/SUNWnlsp/N1_Service_Provisioning_System_5.1/cli/bin/cr_uninstall_cli.sh
# /opt/SUNWnlsp/N1_Service_Provisioning_System_5.1/server/bin/cr_uninstall_ms.sh

```

3. Remove the following packages.

```

SUNWspsc1
SUNWspsms
SUNWspsm1

# pkgrm SUNWspsc1
# pkgrm SUNWspsms
# pkgrm SUNWspsc1

```

Type **y** in response to prompts asking "Do you want to remove this package? [y,n,?,q]". If the message `pkgrm: ERROR: no package associated with SUNWspsc1` appears, that package has already been removed by step 2. Continue removing packages.

4. Delete the service provisioning directory and files.

```
# cd /
# rm -rf /opt/SUNWn1sps/
# rm /nlgc-setup/sps/state
# rm /nlgc-setup/state/0installSPS.pl.state
```

5. Reboot the management server and then install the N1 System Manager software.

Linux based Sun Fire X4100 or X4200 management server:

1. Stop the server and agent.

```
# su - nlgsps -c "/opt/sun/N1_Service_Provisioning_System_5.1/server/bin/cr_server stop"
# su - nlgsps -c "/opt/sun/N1_Service_Provisioning_System/agent/bin/cr_agent stop"
```

2. Delete the service provisioning directory and files.

```
# cd /
# rm -rf /opt/sun/N1_Grid_Service_Provisioning_System_5.1
# rm -rf /opt/sun/N1_Grid_Service_Provisioning_System
# rm -rf /opt/sun/N1_Service_Provisioning_System
# rm -rf /opt/sun/N1_Service_Provisioning_System_5.1
# rm /nlgc-setup/sps/state
# rm /nlgc-setup/state/0installSPS.pl.state
```

3. Reboot the management server and then install the N1 System Manager software.

Using an External DVD-ROM to Create OS Distributions Fails (6299514)

Using an external DVD-ROM to create an OS distribution can fail because of job time out due to the introduction of additional network latency.

Workaround: Use the `n1smconfig` command on the management server to increase the job time out values to a worst case value of three hours.

Security Issues

This section describes known security issues.

Browser Interface Session Never Times Out (6222506)

The event refresher frame reloads every 10 seconds, which updates the user's session timestamp. Therefore, the browser interface session will never time out.

Workaround: Explicitly log out when you are done using the browser interface.

Discovery Issues

This section describes known discovery issues.

“Driver Not Found” Discovery Error Message Misleading For Sun Fire X4100 and Sun Fire X4200 Servers (6299780)

The error message “Driver Not Found” is misleading when Sun Fire X4100 and Sun Fire X4200 servers fail discovery. The error occurs because the management server cannot create an SSH connection to the server.

Workaround: Check the SSH credentials by using `ssh` to access the system directly, and update the credentials accordingly.

Discovery of Sun Fire V20z and V40z Servers Will Fail if SSH Credentials are Configured but IPMI Credentials are Not (6307349)

Discovery of a Sun Fire V20z or V40z server will fail if the server’s SSH credentials are configured but its IPMI credentials are not. This issue can occur as follows:

- For all SP firmware revisions, the server was previously configured with SSH credentials, but the IPMI credentials were not configured.
- For firmware revisions 2.3.0.11 and later, SSH and IPMI credentials were previously configured, but IPMI was manually disabled on the service processor using the `ipmi disable channel lan` command. This command unconfigures the IPMI credentials, which was not the case for previous firmware revisions.

The following error messages display when this issue occurs:

- The Discovery job:

```
Errors
Results
Result 1:
Server:  10.0.3.12
Status:  -3
Message: An exception occurred trying to access 10.0.3.12.
Please refer to the log file for more information.
```

- The syslog file:

```
Aug 25 17:43:26 lab126-rh-n1sm cacao[9720]:  
v20z.V20zAuthService.authenticate : IPMI channel enabling failed.  
IPMI user account needs to be initialized.
```

Workaround: Enable IPMI on the Sun Fire V20z or Sun Fire V40z server using the following procedure and rerun discovery.

1. Log in to the service processor.
2. Enable IPMI:

```
sp$ ipmi enable channel lan
```

3. Enter the password when prompted.

OS Provisioning Issues

This section describes the known OS provisioning (deployment) issues.

Unable to Deploy Red Hat or Suse Linux

OS deployments of Red Hat or SUSE Linux might time out or stop due to a known issue with the spanning tree setting on a network switch.

Workaround: Disable spanning tree on the switch or the switch ports used for the management server and the target servers provisioning network connections.

OS Deployment of Red Hat Linux 3.0 Update 2 Might Stop and Enter Interactive Mode

OS deployment of Red Hat Linux 3.0 Update 2 might stop and enter interactive mode due to a time out issue.

Workaround: Use Update 3 or later.

Exclude Server Field Does Not Work in Load OS Wizard (6298874)

When using the Load OS wizard in the browser interface, the Exclude Server field does not work when you enter servers to be excluded from being provisioned. This feature is not available from the browser interface.

Workaround: Use the `load server` command from the command line interface.

Load OS Wizard is Not Clear About Hostname (6308375)

The Load OS Wizard does not make it clear why the user has to enter the hostname and configuration twice.

The user is prompted for the hostname in two of the wizard steps:

- The first prompt is for the hostname used during the installation process
- The second prompt for hostname value that is to be used when the installation is complete

These values might or might not be the same.

DHCP Does Not Work on SPARC Machines on Reboot of Machine After N1 System Manager Has Been Installed (6314895)

Solaris 10 does not install the `dhcpd` daemon in `/usr/sbin/` as did earlier versions of Solaris, but instead Solaris 10 installs the `dhcpd` daemon in `/usr/local/sbin/`. As a result, if the machine is rebooted or you kill the `dhcpd` daemon, the `dhcpd` daemon cannot be restarted.

Workaround: Every time the Solaris management server is rebooted or shutdown, you must enter the following command on the management server after it boots:

```
/opt/SUNWscs/sbin/s_dhcp_config.pl -e -I interface
```

Interface Issues

This section describes the known browser interface and command line interface issues.

Incorrect Server Details When Servers Swap Management IP Addresses (6196399)

If the management IP addresses of two discovered servers are swapped, the detailed server information displayed for each of the servers with the swapped addresses will be the information for the other swapped server. For example, if server A and server B have their management IP addresses swapped, “show server A” will show server B’s information and “show server B” will show server A’s information.

Workaround: Delete both of the servers with swapped IP addresses and then rediscover them. This will result in any user supplied information about the server being lost.

Browser Interface Becomes Out of Sync if Back Button Is Used (6215298)

The browser interface uses frames that are synchronized. If you click the browser’s Back button in one of the frames, the frames can get out of sync.

Workaround: Press F5 or refresh the page to synchronize the frames.

Loading a Solaris OS Distribution from a Solaris Management Server Produces “prom_panic” Error (6307571)

Loading a Solaris OS distribution from a Solaris management server to a provisionable server fails to a provisionable server fails with the error `prom_panic: Could not mount filesystem` immediately after the network boot process starts. After the error message is displayed, the provisionable server enters the boot debugger mode.

Workaround: Stop and restart the NFS service on the management server as follows:

```
# /etc/init.d/nfs.server stop
# /etc/init.d/nfs.server start
```

The Bottom Line of the Serial Console Message is not Shown in the Console Window (6308148)

The last line of the serial console launched from the N1 System Manager browser interface is not displayed in the serial console window.

Workaround: Press Enter or Return to display the last line.

Only SSHv1 Is Supported for Serial Console Access (6309107)

The applet used for serial console access from the Web Browser interface uses SSHv1 only for communication back to the N1 System Manager management server. This feature requires enabling SSHv1 for the N1 System Manager management server.

Workaround: If you do not want to enable SSHv1 and the serial console Web Browser interface, you can use the serial console feature from the `n1sh` command line interface.

Installed Red Hat Enterprise Linux AS/ES 4.0 Update 1 OS Shown Incorrectly in Server Lists (6309253)

The `show server` command and the browser interface server list show the wrong version of an installed provisionable server with Red Hat Enterprise Linux AS/ES 4.0 Update 1 OS. For example, `Linux RedHat 4ES U4` is shown instead of `Linux RedHat 4ES U1`.

Workaround: There is no workaround.

Web Console Feature in Browser Interface Does Not Work on a Private Management Network (6316139)

The Web Console feature requires that the browser client have access to the management network of the target system where the Web Console is hosted.

Workaround: Run the browser interface on a host which has access to the management network of the target system.

Serial Console Feature Intermittently Fails on Sun Fire X4100 and Sun Fire X4200 Servers (6316175)

The serial console feature fails on Sun X4100 and Sun Fire X4200 servers when using either the command line (`connect server` command) or the browser interface.

Workaround: Retry the serial console.

Server List Takes Too Much Time to Display After Management Server Reboots (6315022)

After the management server reboots, it takes at least five minutes for all the servers by using the command line (`show server` command) or the browser interface. This issue only happens on the initial display of the servers.

Workaround: No workaround available.

Serial Console Feature Requires Java™ Plugin 1.2 or Later Installed (6315615)

To use the Serial Console feature from the Server Details page in the browser interface, the Java Plugin 1.2 or later must be installed on the system where you are running the browser. Not all of the supported browsers for the N1 System Manager have this installed.

Firmware Update Issues

This section describes known firmware update issues.

N1 System Manager Allows Deployment of Incompatible Firmware to Dual-Core Sun Fire V20z and Sun Fire V40z Servers (6296404)

Dual-core Sun Fire V20z and Sun Fire V40z servers require a 2.3.x and greater firmware revision. N1 System Manager does not prevent you from deploying firmware revisions below 2.3.x. Deploying firmware revisions below 2.3.x may result in issues with the server's service processor.

Workaround: Double check the firmware revision before updating.

OS Update Issues

Failed Solaris OS Update May Cause Subsequent OS Update Failures (6310032)

If a Solaris OS update installation fails, a copy of the admin file used for the installation is not removed from the provisionable server. If the failure was due to a corrupt or invalid admin file, subsequent OS update installations will not replace the faulty admin file and it may cause continued failures.

Workaround: Delete the *package-filename*.admin file in the provisionable server's /tmp directory and retry the OS update installation. If you specified a customized admin file for the OS update, ensure that the admin file is valid.

Solaris Updates which Require Admin Files Cannot be Uninstalled if Filename and Packagename Differ (6313778)

If the name of a package and the name of the file installing that package differ and the package requires use of an admin file to install and uninstall, the package can be installed on a target host using an OS Update, but the OS Update (the package) cannot subsequently be uninstalled from the N1 System Manager.

Workaround: You can do one of the following to delete the improperly-named package:

- Rename the package file to match the name of the package before using N1 System Manager to install the package.
- Rename the admin file in the provisionable server's /tmp directory to match the name of the package. For example, *package-name*.admin instead of *package-filename*.admin.
- Manually remove the package from the provisionable server using pkgrm.

Monitoring Issues

Cannot Initialize OS Monitoring Because of an Old SSH Key Entry for a Given IP (6208006)

OS monitoring support cannot be initialized when redeploying to a provisionable server where the IP address is the same IP address assigned in a previous deployment. An `IpUnreachableException` is generated. This occurs because the `/.ssh/known_hosts` file contains the original deployment IP address.

Workaround: Log in to the management server as root, and either edit the `/.ssh/known_hosts` file and remove the ssh key entry for the server, or remove the `/.ssh/known_hosts` file.

Update Job Creation Error Message Does Not Provide Adequate Information (6230630)

If you attempt to load a Red Hat Linux update onto a server installed with the Solaris OS, the Sun N1 System Manager will initiate the Update job. This Update job will fail.

Workaround: Make sure that the update is compatible with the installed OS. You can view a provisionable server's OS by using the `show server` command, and you can view the OS type for an OS update by using the `show update` command.

The `unmonitored` and `unknown` Filters are Unavailable for the `show server` Command (6240297)

The `unmonitored` and `unknown` filter values for a server's utilization (OS Resource monitoring) do not work. Specifically, the following commands are unavailable:

```
N1-ok> show server utilization=unmonitored
N1-ok> show server utilization=unknown
```

Workaround: There is no workaround.

Unable to Filter Using the Hardware Health Monitor Value Unmonitored (6240368)

Issuing the `show server health=unmonitored` command returns no server list, even if servers are in the Unmonitored state.

Workaround: No workaround available.

Apostrophe Cannot Be Used in Notification Description (6242713)

The `create notification` command fails if an apostrophe is used for the description attribute.

Workaround: Escape the apostrophe with another apostrophe (for example, Paul's Notification) or do not use an apostrophe in the description.

Clock Icon Representing Running Jobs Remains After Jobs Finish (6262603)

Even after all jobs are finished running, the clock icon next to the servers in the View Selector section may still display, which is a problem with the refresh feature.

Workaround: Click the Refresh button or press F5 to refresh the browser interface.

OS Resource Health Status Polling is not Updated According to the User-Specified Polling Value (6287040)

When OS monitoring is stopped on a provisionable server and subsequently restarted, the OS status is not updated until 10 minutes later, even when the user-specified polling value is less than 10 minutes.

Workaround: No workaround available.

OS Resource Health Status Not Updated in Browser Interface (6291223)

If the provisionable server's network interface is unavailable, the OS resource health status in the browser interface should change to `unreachable` on the next refresh interval. Currently, this status does not change.

By default, the network and refresh intervals are set to 10 minutes when the N1 System Manager software is installed. If the network and refresh intervals are different, then the OS resource health and network status will be updated at different intervals. This in turn causes different results to display when the provisionable server's data network interface is unreachable, and the network polling interval is lower than the OS resources refresh interval.

The network status is updated in the server's detail page in the browser before it is updated in the main server page. Because of these differences, the OS resource health status in the server main page changes to "unreachable" on the next OS resources refresh interval (default value: 10 minutes).

Workaround: Use the `show server server name` command to view the OS resource health status.

Misleading Job Status "Running" or "Complete" (6299790)

If a Create OS job is running and the system runs out of disk space, the job status shows "running". When disk space is cleaned up, and the N1 System Manager is restarted, the job status changes to "complete" even though the Create OS job has failed.

Note – The failed job's state will remain shown as "complete" and cannot be corrected.

Workaround:

1. Free up at least 3 Gbytes of disk space.
2. Stop and restart the N1 System Manager.
3. Resubmit the Create OS operation.

Filesystem Monitoring Works Only With ext3 Filesystems on Linux Servers (6308686)

Filesystem monitoring does not work on a Linux provisionable server with a non-ext3 filesystem, even though the appropriate OS monitoring support has been added. Only ext3 filesystems can be monitored on Linux servers with the N1 System Manager.

Workaround: Reinstall the provisionable server with an OS profile that creates an ext3 filesystem.

OS Resource Health Monitoring Enforces a Five-Minute Minimum Refresh Interval (6311946)

Because the OS health monitoring agent caches the monitoring data every 5 minutes, setting the OS resource refresh interval to less than 5 minutes may retrieve existing cached data and have no apparent effect, which could lead to invalid conclusions of reported monitoring data.

Workaround: Set the OS resources monitoring interval to at least 5 minutes.

Installation of the OS Monitoring Feature Will Hang if the File System Device Name is More Than 20 Characters (6317401)

The OS Monitoring install job will time out and fail if the file system device name on the provisionable server is more than 20 characters in length. OS resource monitoring will not be available in this situation. This issue occurs most often on provisionable servers on which the logical volume management (LVM) feature of the operating system is being used. OS resource monitoring will not be available in this situation.

The Base management feature can still be added to the provisionable server, but not the OS monitoring feature.

Workaround: Make sure that the file system device name is within the 20 character limit.

Management Support Features Do Not Work Because `hostinstall.pl` is Not Correctly Generated for Some Networks (6317747)

If the provisioning network uses the IP address form `x0.0.0.y` (10.0.0.34) and if hostname resolution fails, the `hostinstall.pl` script will not be correctly generated and the script will not be able to contact the management server to configure the provisionable server. This issue affects both the `add server server feature osmonitor` and `add server server feature basemanagement` commands.

Workaround: Manually add the `x0.0.0.y` form IP to the `hostinstall.pl` script on the management server. On a Red Hat management server, edit the `/var/opt/sun/scs/web/pub/hostinstall.pl` file. On a Solaris management server, edit the `/var/opt/SUNWscs/web/pub/hostinstall.pl` file.

Line 33 should look like:

```
my @CSHostAddrs = ( 'nslm', '172.20.48.120' );
```

Add the IP address to the list:

```
my @CSHostAddrs = ( 'nslm', '172.20.48.120', '10.0.0.1' );
```

Jobs That are Queued But not Running Are Shown in the Job Detail as “Not Started” (6318398)

When the total job load is high enough to prevent the next job in the queue from running, the Job Details screen shows the running jobs' status as “running”, and the status for other jobs is shown as “Not Started”. The queued jobs will run after one or more of the running jobs have completed and the total job load is low enough to allow the next job in the queue to run.

See [“Job Queuing Behavior in Sun N1 System Manager 1.1” on page 12](#) for further information.

Localization Issues

Non-ASCII Objects Display Random Characters if the N1 System Manager Is Running in a Non-UTF8 Locale (6231209)

Non-ASCII objects created using the N1 System Manager display random characters if you start N1 System Manager in following ways:

- Running the `/etc/init.d/nlsminit` command in a non-UTF8 locale
- Rebooting the management server in a non-UTF8 locale

Workaround: Use either of the two following methods.

1. Temporary solution: set the `LANG` environment variable to the UTF8 locale and restart the N1 System Manager. For example:

```
# export LANG en_US.UTF-8
# /etc/init.d/nlsminit stop
# /etc/init.d/nlsminit start
```

2. Permanent solution:

- On a Solaris based management server:

Edit the file `/etc/default/init` and change the `LANG` value to `en_US.UTF-8`.

- On a Linux based management server:

Edit the file `/etc/sysconfig/i18n` and change the `LANG` value to `en_US.UTF-8`.

Do Not Select ja_JP.EUC_JP Language on Wizard When Creating Solaris OS Profile (6242643)

The Create OS Profile wizard incorrectly shows `ja_JP.EUC_JP` as a selection. If `ja_JP.EUC_JP` is selected, then the load OS process will fail.

Workaround:

1. Specify `ja_JP.UTF-8` when creating the OS profile: and deploy it to the provisionable server, for example:

```
N1-ok> set osprofile osprofile_name language=ja_JP.UTF-8
```
2. Deploy the profile using the `load server` command or the Load OS wizard in the browser interface.
3. Log in to the provisionable server as root, and open the `/etc/default/init` file for edit.
4. Replace the text `ja_JP.UTF-8` with `ja_JP.eucJP`, then save and close the `/etc/default/init` file.

Browser Interface Command Line Pane Displays English Text in Non-English Locales When the Help Button Is Clicked (6258283)

Clicking the Help button in a localized environment causes all text in the browser interface Command Line pane to display in English, except for tab completion text.

Workaround: Refresh the browser interface by clicking the browser Reload button.

OS Distribution Names With Non-ASCII Characters Do Not Display Properly (6292702)

If you specify a OS Distribution name with non-ASCII characters during the `create os` command, the OS distribution name will not display properly with the `show os` command.

Cannot Install ALOM Firmware With Non-ASCII Firmware Name (6297238)

The `load server` command fails to install ALOM firmware if the firmware name is non-ASCII.

Workaround: Change the firmware name to ASCII using the `set firmware` command.

Internationalization Features Not Supported for `n1sh` Command on Solaris Management Servers (6297808)

The Python version (2.3) on a default Solaris management server does not provide adequate internationalization support for the `n1sh` command.

Workaround: Install Python 2.4 or later on the Solaris management server. The Python executable must be `/usr/bin/python2.4`.