Sun Open Telecommunications Platform 1.1 Release Notes

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Contents

Preface

The Sun Open Telecommunications Platform Release Notes contain information and problem details that are specific to the Open Telecommunications Platform 1.1 software.

Who Should Use This Book

This guide is intended for system administrators who are responsible for installing the Open Telecommunications Platform software and hardware, and for personnel who use the Open Telecommunications Platform product.

Product Documentation

This guide is part of a two-volume implementation reference set. Read the release notes and the installation guide before installing the Open Telecommunications Platform.

- Sun Open Telecommunications Platform 1.1 Release Notes
- *Sun Open Telecommunications Platform 1.1 Installation and Administration Guide*

Related Documentation

- Solaris 10 1/06 Release and Installation Documentation (`http://docs.sun.com/app/docs/coll/1236`)
- Sun Cluster 3.1 Update 4 Software Collection for Solaris OS, SPARC Platform Edition (`http://docs.sun.com/app/docs/coll/1124.4`)
- Sun N1 System Manager 1.3.2 (`http://docs.sun.com/app/docs/coll/1283.6`)
- Sun N1 Service Provisioning System 5.2.4 (`http://docs.sun.com/app/docs/coll/1119.6`)
- *Sun N1 Service Provisioning System User's Guide for OS Provisioning Plug-In 3.1*

Related Third-Party Web Site References

Third-party URLs are referenced in this document and provide additional, related information.

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Accessing Sun Resources Online

The docs.sun.com web site enables you to access Sun technical documentation online. You can browse the docs.sun.com archive or search for a specific book title or subject. Books are available as online files in PDF and HTML formats. Both formats are readable by assistive technologies for users with disabilities.

To access the following Sun resources, go to `http://www.sun.com`.

- Downloads of Sun products
- Services and solutions
- Support (including patches and updates)
- Training
- Research
- Communities (for example, Sun Developer Network)

Accessibility Features for People With Disabilities

To obtain accessibility features that have been released since the publishing of this media, consult Section 508 product assessments available from Sun upon request to determine which versions are best suited for deploying accessible solutions.

For information on Sun's commitment to accessibility, visit http://sun.com/access (`http://sun.com/access`).

Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

- Documentation (`http://www.sun.com/documentation/`)
- Support (`http://www.sun.com/support/`)
- Training (`http://www.sun.com/training/`)

Typographic Conventions

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

TABLE P–1 Typographic Conventions

Typeface	Meaning	Example
`AaBbCc123`	The names of commands, files, and directories, and onscreen computer output	Edit your `.login` file. Use `ls -a` to list all files. `machine_name% you have mail.`
`AaBbCc123`	What you type, contrasted with onscreen computer output	`machine_name%` **`su`** `Password:`
aabbcc123	Placeholder: replace with a real name or value	The command to remove a file is `rm` *filename*.
AaBbCc123	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the *User's Guide*. A *cache* is a copy that is stored locally. Do *not* save the file. **Note:** Some emphasized items appear bold online.

Shell Prompts in Command Examples

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

TABLE P–2 Shell Prompts

Shell	Prompt
C shell	`machine_name%`
C shell for superuser	`machine_name#`
Bourne shell and Korn shell	`$`
Bourne shell and Korn shell for superuser	`#`

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◆ ◆ ◆ CHAPTER 1

What's New in Sun Open Telecommunications Platform 1.1

The Open Telecommunications Platform 1.1 Media Kit containing the product and documents is available on DVD, which can be shipped to you for a small fee. The Open Telecommunications Platform Media Kit part number is OTP-B-Media.

For Open Telecommunications Platform download and installation media preparation procedures, see "Downloading and Uncompressing the OTP and Solaris OS Software" in *Sun Open Telecommunications Platform 1.1 Installation and Administration Guide*.

Supported Features

This product supports the following features:

- Installation and configuration of the integrated product
- High availability framework
- Application provisioning service
- Operating system provisioning
- System management service
- System monitoring service

For a list of the specific combinations of the latest supported hardware, software, and firmware, see the Qualification Hardware Matrix (QHM) at `http://www.sun.com/sunotp/qhm`. Sun Open Telecommunications Platform components are supported only on these platforms for network equipment provider (NEP) application development and deployment.

◆ ◆ ◆ CHAPTER 2

Release Notes

This chapter describes the Open Telecommunications Platform (OTP) issues that are known to be problems. The following topics are discussed:

Open Telecommunications Platform 1.1 Limitations

The following are known limitations of Open Telecommunications Platform 1.1:

- OTP software uninstall is not supported in this release.
- Checkpoint support is not provided, that is, you cannot restart from where installation failed.
- If the installation fails and you need to reinstall, the entire installation process must be repeated.
- Installation of OTP on hardware platforms and operating systems not listed in section "OTP System Hardware and Firmware Requirements" in *Sun Open Telecommunications Platform 1.1 Installation and Administration Guide* is not supported.
- OTP supports only IPv4. IPv6 is not supported.
- OTP supports NFS version NFS v3. NFS v4 is not supported.
- OTP supports only Solaris DHCP. ISC DHCP is not supported.

Installation and Configuration Issues

This section describes known Open Telecommunications Platform installation and configuration issues.

Deletion of the OTP Plug-in Requires the Deletion of All Hosts (6458703)

Before you can delete the OTP plug-in from an external OTP installation server or a production OTP host, you must first delete all hosts for which you ran plans.

1. Log in to the server from which you ran the Plans to add additional OTP hosts.
2. Delete all of the target hosts only for each host for which you ran Plans from the OTP plug-in.
3. Delete the OTP plug-in.

Resource Group `otp_system_group` and Resource `N1SPSMS-HA` Fails Under Heavy System Load (6507395)

During load test on memory, the resource group `otp_system_group` fails with the error message `Error--stop failed`, and the resource `N1SPSMS-HA` fails with the error message `Stop failed Faulted`.

Workaround:

1. Log in as root on the clustered OTP host on which the OTP system management service is installed and running.
2. Restart the remote agent by typing **`/etc/init.d/n1spsagent restart`**. If the remote agent is not restarted, then the service provisioning service on the first OTP host will not work properly.
3. Type **`/usr/cluster/bin/scrgadm -c -g otp-system-rg -y RG_system=false`** to set the `system` property for the `otp-system-rg` resource group to false.
4. Type **`/usr/cluster/bin/scswitch -F -g otp-system-rg`** to take the remote group offline.
5. Type the following commands in the sequence shown to disable cluster resources.
   a. **`/usr/cluster/bin/scswitch -n -j otp-spsms-rs`**
   b. **`/usr/cluster/bin/scswitch -n -j otp-spsra-rs`**
   c. **`/usr/cluster/bin/scswitch -n -j otp-sps-hastorage-plus`**
   d. **`/usr/cluster/bin/scswitch -n -j otp-lhn`**

6. Type **/usr/cluster/bin/scswitch -u -g otp-system-rg** to put the remote group into the unmanaged state.
7. Type **/usr/cluster/bin/scrgadm -c -j otp-spsra-rs -x Stop_signal="15"** to change the `Stop_signal` property of the remote agent resource to 15.
8. Type **/usr/cluster/bin/scrgadm -c -j otp-spsms-rs -x Stop_signal="15"** to change the `Stop_signal` property of the management service resource to 15.
9. Type **/usr/cluster/bin/scswitch -o -g otp-system-rg** to put the remote group into the managed state.
10. Type **/usr/cluster/bin/scswitch -Z -g otp-system-rg** to bring the remote group back online.
11. Type **/usr/cluster/bin/scrgadm -c -g otp-system-rg -y RG_system=true** to set the `system` property for the `otp-system-rg` resource group to true.

OTP Does Not Validate All User Input During Installation (6515467)

When you enter invalid inputs during OTP installation, installation might succeed. However, OTP services might not be properly configured.

Workaround: Make certain that you provide valid values when entering OTP plan information. The *Sun Open Telecommunications Platform 1.1 Installation and Administration Guide* provides OTP Plan worksheets for you to record installation information for each host prior to the installation process, which you should then use during installation to ensure the data you provide is correct. Print a worksheet for each host and then record and verify the information for each host prior to installing OTP.

Installation of OTP Fails If IPMP Is Not Correctly Configured (6549401)

OTP installation fails at the "OTP System Management and Provisioning Service" step.

There are two types of IPMP configurations: Link-based failure detection and Probe-based failure detection.

OTP supports only probe-based failure detection. The installation fails if IPMP is configured in the link-based failure detection mode.

Workaround: Before installing OTP, make sure that IPMP is configured in the probe-based failure detection mode. If you want to configure IPMP in the link-based failure detection mode, you can do it after OTP installation.

OTP Installation From External Server Through GUI Displays an Error Message (6536993)

Service Management Facility (SMF) is registered with the old calendar service `rpc-100083`. After applying the patch, SMF gets registered with the new calendar service. This registration happens only after the first reboot. Due to this registration, when you install OTP from external server through GUI, you might see an error message as follows:

```
Failed to update state of instance svc:/network/rpc-100083_1/rpc_tcp:default in
repository: entity not found
```

This error message appears only once during the first reboot.

Warning Messages on Console During OSP Installation (6529175)

During OSP installation, you might see some warning messages on the console. These messages do not affect the functionality of the OSP plug-in and can be ignored.

```
Solaris: Configuring JumpStart boot for target node
                Starting SMF services for JumpStart
Solaris: Configure DHCP build
                Adding install client
WARNING:          JS_DHCP_VENDOR is not defined in jumpstart.conf
WARNING:          This value a space separated list of the uname -i
WARNING:          outputs of the machines you want to install.
WARNING:          Supporting 'SUNW.i86pc' by default.
```

OS Installation Fails After the Initial Reboot (6549371)

Assume that you have done a initial setup as follows:

- Installed the master server of OTP Application Provisioning Service
- Loaded the OSP plug-in of OTP Application Provisioning Service
- Prepared the OSP server and JET Boot/Install server

If you reboot the host after this initial setup, OSP and Jet directories become unavailable. Hence, OS installation fails after the initial reboot.

Workaround: Run the following command after the initial reboot.

```
# /usr/sbin/svcadm enable network/nfs/server
```

Integration Issues

This section describes known Open Telecommunications Platform integration issues.

OSP Deployment Plan Completes Before OS Is Installed (6530773)

When the OSP plan is run to install the OS, the plan completes before the OS is installed. Hence, the OS installation will still be in progress after the OSP plan completes.

Workaround: Monitor the progress of OS installation using the following steps.

1. In the Common Tasks section of the GUI, select OS Provisioning.
2. On the OS Provisioning Common Tasks page, click Status in the OS Provisioning Administration Tasks section.
3. On the Plans Details page, click Run.
4. On the Plan Details Run page, select the target host on which you provisioned the OS.
5. Click Run Plan (includes preflight).
6. Follow the Details links to view the status.

OSP Plug-in Cannot Import Two OS Images Simultaneously (6531142)

The OSP plug-in does not import two OS images simultaneously. If you try to import two OS images simultaneously, the following message appears:

```
Connect and lock hosts
```

Workaround: Wait for the first OS image to be imported before importing the second OS image.

OSP Plug-in Does Not Take a Shared File System as OS Image Path (6531133)

The OSP plug-in is not highly available. Hence, OSP plans fail if a shared file system is given as OS image path. Due to this issue, you cannot place OS images on the shared disks.

Error Message:

```
osp_create_solaris_image.sh: 'targetnode/export/home/Solaris10U2'
'/var/otp/osp_image/Solaris10_u2_sparc' '10' 'Solaris10_u2_sparc' ' /opt/SUNWjet'
Created loopback device /dev/lofi/1 for
target node/export/home/Solaris10U2/sol-10-u2-ga-sparc-dvd.iso
Failure in mounting /var/otp/osp_image/3047/slices/s0
Filesystem  does not appear to be mounted.
removing device /dev/lofi/1
removing directory /var/otp/osp_image/3047
osp_create_solaris_image.sh: ERROR -- copy_solaris_media failed
```

`cfgadm` Does Not Warn if Metaset Is Used (6536514)

The `cfgadm` command provides configuration administration operations on dynamically reconfigurable hardware resources. The `cfgadm` command on the OTP cluster node does not warn if the metaset is being used and unconfigures the controller, which results in unstable OTP Services.

Hosts Cannot Be Deleted From the Hosts List of External Server (6527578)

When you try to delete hosts from the hosts list of external server through GUI, you might get the following error message:

```
Unable to delete the host
At least one delete operation failed
```

Workaround: Restart the master server on the specific node and remove the host.

OSP ALOM Create Plan Does Not Validate the Password (6537015)

OSP ALOM create plan does not verify whether the admin password entered is correct or not. The plan succeeds with any password.

OSP Uses the IP Address of Installation Server as the Default Router (6539435)

If you do not explicitly specify the IP address of the default router in the Provision OS profile, OSP will use the IP address of installation server to create a `/etc/defaultrouter` file.

Workaround: Specify the IP address of the default router in the Provision OS Profile or modify the `/etc/defaultrouter` file to make it point to the correct router information and reboot the system.

EIS compliance requires the `/etc/defaultrouter` file to be present.

Messages On Console When Host Reboots (6535460)

Runtime error messages are displayed on the console when the host reboots.

Error snippet:

```
libpkcs11: Unable to contact kcfd: Bad file number
libpkcs11: /usr/lib/security/pkcs11_softtoken.so unexpected failure
in ELF signature verification. System may have been tampered with.
Cannot continue parsing /etc/crypto/pkcs11.conf
com.sun.hss.domain.PersistentMBeanServer.loadMBeans :
Error loading MBeans from persistent store
com.sun.cacao.element.ElementSupport.setAdministrativeState :
caught throwable when starting : RuntimeException thrown in postRegister method
```

These messages are completely harmless and can be safely ignored.