

# Ultra™ Enterprise™ 10000 SSP 3.1 Release Notes

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THE NETWORK IS THE COMPUTER™

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# Preface

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This document describes known SSP bugs and other late-breaking information not included in the SSP documentation.

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## Related Documentation

Other documents that describe the SSP include:

- *Ultra Enterprise 10000 SSP 3.1 User's Guide*
- *Ultra Enterprise 10000 SSP 3.1 Reference Manual*
- *Ultra Enterprise 10000 System Hardware and Software Installation and De-Installation Guide*

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# Typographic Conventions

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

Typeface or Symbol	Meaning	Example
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. machine_name% You have mail.
<b>AaBbCc123</b>	What you type, contrasted with on-screen computer output	<pre>machine_name% su Password:</pre>
<i>AaBbCc123</i>	Command-line placeholder: replace with a real name or value	To delete a file, type <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new words or terms, or words to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. You <i>must</i> be root to do this.

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## Shell Prompts

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

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

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<b>Country</b>	<b>Telephone</b>	<b>Fax</b>
Belgium	02-720-09-09	02-725-88-50
Canada	800-873-7869	800-944-0661
France	0800-90-61-57	0800-90-61-58
Germany	01-30-81-61-91	01-30-81-61-92
Holland	06-022-34-45	06-022-34-46
Japan	0120-33-9096	0120-33-9097
Luxembourg	32-2-720-09-09	32-2-725-88-50
Sweden	020-79-57-26	020-79-57-27
Switzerland	0800-55-19-26	0800-55-19-27
United Kingdom	0800-89-88-88	0800-89-88-87
United States	1800-873-7869	1800-944-0661

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## SSP 3.1 Release Notes

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This release of the SSP includes all patches released against SSP 3.0, and introduces the following features:

- Support for up to eight domains
- Recovery of hung domains
- Enhanced event-monitoring features
- Improved installation procedures

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## Installation

The *Ultra Enterprise 10000 System Hardware and Software Installation and De-Installation Guide*, a printed copy of which is provided with the SSP 3.1 Media Kit, contains both host and SSP installation instructions. It includes procedures for both upgrading an SSP to SSP 3.1, and for installing SSP 3.1 from scratch.

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**Note** – The *Ultra Enterprise 10000 System Hardware and Software Installation and De-Installation Guide* replaces the two documents *Ultra Enterprise 10000 SSP Hardware and Software Installation Guide* and *Ultra Enterprise 10000 Host Hardware and Software Installation Guide*.

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**Note** – During the installation, skip Step 2, “Terminate all SSP daemons. . .”, on page 9-1 of the *Ultra Enterprise 10000 System Hardware and Software Installation and De-Installation Guide*. Step 3 performs the operation in Step 2. If you execute steps 2 and 3, you will receive a message. Ignore the message and continue with the installation.

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## SSP 3.1 and Solaris 2.6

Note that SSP 3.1 software can be loaded only on SSP units (primary or redundant) running Solaris 2.5.1; it does not work on Sun workstations that are running Solaris 2.6. However, it does work with Ultra Enterprise 10000 domains running Solaris 2.5.1 or Solaris 2.6.

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## SSP 3.1 and Failover

The SSP software versions must be the same if you want to set up and use the SSP Failover feature. For example, you cannot use SSP Failover to switch from an SSP running SSP 3.0 to one running SSP 3.1.

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## Domain-Specific Messages

Previously, many domain-specific messages were routed to the platform-specific message file in `$$SSPVAR/adm`. These messages are now routed directly to the domain-specific messages file in `$$SSPVAR/adm/$SUNW_HOSTNAME`.

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## Change to the `fan(1M)` command

The `fan(1M)` command with its `-p on` option now turns on all fans; it can no longer turn on only individual fans.

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# Known Bugs

This section lists and briefly describes important bugs known to exist in this release of SSP 3.1, along with workarounds where applicable. Minor bugs are not included. Each entry includes a 7-digit BugID number that is assigned by Sun to aid in bug-tracking and a brief description of the bug.

## 4043945

Control board resets when connected to customer's network.

When both the SSP and the Ultra Enterprise 10000 system are placed on a busy network with a large amount of network traffic, the control board may reset frequently. Domain bring ups may fail when the control board is being reset; SNMP access may also fail, and console timeouts may occur. **Workaround:** Place the SSP and the Ultra Enterprise system control boards on a private network, which will significantly reduce, but not eliminate, the phenomena.

## 4084680

Got following message: Failed writing centerplane SMD masks!! Retrying.

Under certain conditions a message similar to the following may display during a DR operation:

```
Failed writing centerplane SMD masks!! Retrying...
```

DR's retry always succeeds. Therefore, just ignore this message.

## 4092396

Sometimes the messages about the domain go to the platform messages file.

After a domain is recreated, the `machine_server(1M)` may log domain-specific messages to the platform messages file. This bug is very rare. **Workaround:** Kill `machine_server`. Note that whenever `machine_server` stops running it is automatically restarted by the `ssp_startup` script.

## 4092174

During an SSP upgrade, `syslogd` and/or `machine_server` daemons are not started.

After the SSP is upgraded from SSP 3.0 to SSP 3.1 and the SSP is rebooted, `syslogd` or `machine_server(1M)` may not start. This bug is very rare.  
**Workaround:** Restart `syslogd(1M)` as root. Note that whenever `machine_server` stops running, it is automatically restarted by the `ssp_startup` script.

## 4090168

`check_host` is giving the wrong information that the domain is up.

If `check_host(1M)` is not working properly, you may notice a problem when you manually boot a domain. The `bringup(1M)` command may display the following message that the domain is already up and ask you to confirm the state of the domain before you can continue.

```
xf3-ssp:xf3-b14% bringup -A on
WARNING: Host is active, bringup may corrupt filesystems

Do you really wish to continue (y/n)?
```

**Workaround:** If you receive this message, check the state of the domain. If the domain is up, abort the operation. If the domain is not up, type `y` for yes and continue with the operation.

## 4088131

edd(1M) handling of recordstop/arbstops may lock out other apps from executing.

While recordstop or arbstop are performing their dumps, no other activity can happen on the SSP. A recordstop dump can take longer than five minutes, so if a certain recordstop condition is handled and the dump fails every five minutes (or more), the system could loop forever trying to do recordstops. **Workaround:** Change the `edd.erc(4)` file to increase the throttle value from 15 minutes to 1 hour.

To edit the `edd.erc(4)` file, perform the following steps:

1. **Change to the platform-specific directory that contains the `edd.erc(4)` file.**

```
# cd /var/opt/SUNWssp/etc/platformname/domainname
```

2. **Change the throttle values in the `edd.erc(4)` file, as follows:**

```
arbstop : enabled : 900 : 3 : Arbstopact -d %d  
to  
arbstop : enabled : 3600 : 1 : Arbstopact -d %d
```

The first line states that for every 900 seconds (15 minutes), 3 arbstops can occur. The second line states that for every 3600 seconds (60 minutes), 1 arbstop can occur.

3. **Execute the following command to reread the configuration files.**

```
# edd_cmd -x rc
```

---

**Note** – You must perform this procedure for every domain that is to have the new settings.

---

## 4093582

snmpd does not return proper value for sysObjectID MIB member

Currently, snmpd(1M) returns the Sun Enterprise ID as sysObjectID. However, the returning value should identify a Sun Enterprise MIB Object Identifier (OID). The incorrect value problem is localized to accessing sysObjectID MIB members only, so other Sun Enterprise MIB members are not affected.

**Workaround:** Change the SNMP agent configuration, then restart the SNMP agent. The configuration file resides in /etc/opt/SUNWssp/snmp/agt/Ultra-Enterprise-10000.snmpd.cnf

Modify the sysObjectID line, as in the following example:

```
sysObjectID      1.3.6.1.4.1.42
to
sysObjectID      1.3.6.1.4.1.42.2.16
```

## 4063547

System lock contention must be handled gracefully.

Lock timeout is built into the system, so lock contention between programs sometimes occurs, especially during an arbstop when no other activity can happen on the SSP. **Workaround:** If you encounter lock contentions, wait until the present arbstop program is done running, then try the operation again.

---

# Bugs Fixed Since SSP 3.0

This section lists important bugs that have been fixed since the SSP 3.0 Release. Minor bugs are not included. Each entry includes a one-line bug description and a 7-digit BugID assigned by Sun to aid in bug-tracking. The entries are separated into SSP, POST-Related, and DR-Related (on the SSP side) sections.

## SSP Bugs

- 4010341** netcon\_server SEGVs.
- 4011649** netcon is extremely slow and takes long time to return on carriage return in OBP.
- 4034386** power command needs to continue on error.
- 4034724** fans do not power back on after power off, removal and replacement.
- 4035991** netcon login session persists after disconnecting with "~".
- 4036087** power sometimes fails to invalidate a domain's bootProc MIB member.
- 4038573** edd starts up hpost dumps while another bringup is in progress.
- 4039077** hpost complains about "Bogus request flag 0xF0."
- 4040213** Hostview DR operations should work regardless of SUNW\_HOSTNAME setting.
- 4047272** Starfire netcon does not support JTAG input path switch as it did on SSP 2.1.
- 4052245** Reboot after DR board move causes arbstop.
- 4052686** Powering off any system board in a domain that is in OBP (ok>) causes arbstops.
- 4053884** SNMP agent shows no system boards and support boards.
- 4056446** power -off or domain\_remove may make a domain unbootable.
- 4058972** reboot command will fail forever if hpost fails during quick boot.
- 4059539** netcontool needs a new option "~=".
- 4063105** bringup gets invalid hostname when domain name is longer than 14 chars.
- 4063911** power command clears domain mask when powering down a blacklisted board.

- 4065377** BulkPowerFailact shuts down entire system when one Bulk Power is turned off.
- 4071617** Bad power supply brought down the machine.
- 4075799** cb\_reset only possible via le0.
- 4073874** SSP-based BBSRAM mondo vector interrupts can arbstop domain(s).
- 4092613** domain\_remove does not "effectively" kill netcon\_server and/or obp\_helper.
- 4090885** sys\_reset causes running domains to arbstop.
- 4084689** netcon\_server sometimes exits after bringup.
- 4060039** cvcd loops when it cannot connect to the hostname in /etc/ssphostname.
- 4063547** System lock contention must be handled gracefully.
- 4083492** Recordstop during DR operation causes problems.
- 4090885** Customer issued sys\_reset to a non-running domain and the other running domain arbstopped.

## POST-Related Bugs

- 4034192** Recordstops with no cause found during final config.
- 4035534** redx will fail; dumps core if dump contains only one centerplane.
- 4036337** When hpost is being run as part of a DR Attach, Scards quantity appears wrong.
- 4036371** CPU frequency as reported by hpost can be confusing.
- 4038190** Bogus check compare fail messages from xp\_write\_cplane\_dcmasks().
- 4038268** XDB X.2 config failure if no IO module is present.
- 4052245** reboot after DR board move causes arbstop.
- 4057239** Calculated xmux parity in XDB display is wrong.
- 4060917** npb\_io test sequence of hpost clobbers SMD mask register causing arbstops.
- 4062988** Reconfiguration causes the SOC cards to disappear on the E10000.
- 4063119** New DTAG SRAM component IDs will cause POST failures.
- 4063593** hpost should create individual domain log files by default.



- 4068629** PC ASIC timeout configuration change
- 4069096** XBAR ASICs 2 and 3 are swapped on JTAG ring.
- 4071617** Bad power supply brought down the machine.
- 4083492** Recordstop during DR operation causes problems.
- 4080848** A panicked domain could not be brought up without reconfiguring the centerplane.

## OBP-Related Bugs

- 4039094** OBP incorrectly reports the boot alias instead of the boot device to AP.
- 4055211** Add full address to SBE display (E10000 OBP only).
- 4066129** Performance counter sub node properties needs to be moved to perf-counter node.
- 4073434** System crashes with "data access exception" and drops to ok prompt.
- 4073438** "Dictionary overflow" msgs with QFE host adapters.
- 4075932** Missing properties for PC performance counter 0 and incorrect CIC register offsets.
- 4084309** If KADB is installed, OBP does not idle other CPUs after it runs the Solaris halt command. The signatures still read OS/RUN, and bringup acts as though the domain is still up.

## DR-Related Bug on the SSP Side

- 4093482** Cannot detach a board that only shows up in the software domain (that is, the domain\_config file).

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# Patches

This section lists the patches released against SSP 3.0.

## Patch-ID# 104846-07

Description: SSP 3.0: bringup and power fixes

BugId's fixed with this patch: 4031962 4033063 4034724 4036087 4037361 4040939  
4041791 4042417 4045478 4052366 4052686 4056446 4057026 4059181 4059404 4063911  
4064420 4068396 4073324 4081510

## Patch-ID# 104853-04

Description: SSP 3.0: OBP fixes

BugId's fixed with this patch: 4039094 4049092 4050021 40734347 4073438 4075932  
4084309

## Patch-ID# 104900-04

Description: SSP 3.0: hpost and redx fixes

BugId's fixed with this patch: 4052245 4057239 4063119 4069096 4071617 4080848  
4083492

## Patch-ID# 105005-04

Description: SSP 3.0: cbs, obp\_helper, netcon\_server and snmpd  
fixes

BugId's fixed with this patch: 4007096 4022406 4033066 4034875 4034881 4035991  
4038388 4038590 4038723 4038751 4039488 4041183 4041236 4047095 4053884 4062788  
4063544 4080630Patch-ID# 105024-01

Description: SSP 3.0: drview fixes

BugId's fixed with this patch: 4056953

## **Patch-ID# 105111-01**

Description: SSP 3.0: hostview fixes

BugId's fixed with this patch: 4057857

## **Patch-ID# 105180-01**

Description: SSP 3.0: libdr fixes

BugId's fixed with this patch: 4060493 4066729

## **Patch-ID# 105376-01**

Description: SSP 3.0: cb\_reset only possible via le0

BugId's fixed with this patch: 4075799

## **Patch-ID# 105435-01**

Description: SSP 3.0: 911 temp. alarm when power off of secondary control

BugId's fixed with this patch: 4071755



## Inter-Domain Networks

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This section includes information about Inter-Domain Networks (IDNs) as they apply to SSP 3.1.

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### The `domain_create(1M)` Command

You can use the `domain_create(1M)` command to specify the version of the operating system you plan to run in a particular domain. However, the `domain_create(1M)` command cannot verify which version of the operating system you plan to use; therefore, you could define a Solaris 2.6 domain for a domain that is actually running Solaris 2.5.1.

SSP uses libraries and commands that are based on the version number of the operating system's domain, specified when you create the domain. If you have version 2.5.1 on your system and define a new domain as version 2.6, the SSP invokes Solaris 2.6-based SSP operations, such as `domain_unlink(1M)`. Thus, you may encounter IDN operations, even though the new host environment is really only running version 2.5.1.

---

### System Boards

For any domain to be linked into an IDN, each system board within that domain must have at least one CPU. This one-CPU rule enables the system to appropriately update the CIC registers on all of the system boards within that domain with respect to the IDN's configuration.

---

## Hung Domains

The presence of one or more hung domains may stop all IDN network traffic within that IDN. The stoppage could last one to two minutes depending on when the SSP IDN-handling software can recognize the presence of a hung domain and unlink it from the network. The network traffic within that IDN could permanently stop if the SSP IDN-handling software fails to unlink the hung domain properly. The network stoppages could result in application timeouts that require user intervention. In addition, manual intervention may be necessary to resolve a hung domain and to reestablish the IDN network connection.

---

## Arbstop

Unless the state of all of the member domains is known, the IDN drivers are not permitted to reconfigure an IDN to use an alternative Master (IDN) domain. Without this safeguard, the occurrence of an arbstop within a member domain could arbstop all of the domains within the IDN. In addition, domains in unknown states may prevent IDN operations, or they may require you to “force” the desired operation using the `-f` option.

---

# Known Bugs

This section lists and briefly describes important bugs known to exist in this release of SSP 3.1 and IDN, along with workarounds where applicable. Minor bugs are not included. Each entry includes a 7-digit BugID number that is assigned by Sun to aid in bug-tracking, and a brief description of the bug.

## 4091985

`domain_unlink(1M)` is not checking for `arbstop` dumps.

If you execute `bringup(1M)` on a domain that is defined to run Solaris 2.6, `domain_unlink(1M)` will execute and possibly not check for `arbstop` dumps. During the bring up, `domain_unlink(1M)` attempts to lock hardware resources while `hpost(1M)` has them locked as it performs a machine dump within another domain. **Workaround:** Wait until `hpost(1M)` has completed the machine dump before you attempt the bring up.

## 4094476

The `(-m)` option for `domain_link` does not cause the desired effect.

Using the `-m` option to specify the Master domain in an IDN does not work. **Workaround:** None.

## 4094114

`domain_unlink(1M)` causes misleading error messages to be logged.

During IDN status queries of the host domains, IDN may find domains that are down and unable to respond, a condition that causes the SSP libraries to report failures of low-level SSP operations. These reports are acceptable, given the state of the respective domain. The messages reported in the SSP messages file are reported as errors, even though they are not catastrophic failures. The messages should be classified as warnings.

If a domain encounters an arbstop condition, the domain's signatures will remain unchanged. Thus, if the operating system was running prior to the arbstop, the domain appears to the IDN operations as a domain that is still running the operating system. However, because the IDN is not able to get a response from the domain when it is directly queried, IDN becomes confused and marks the domain's state as unknown. This can prevent IDN operations from performing on the given domain causing `domain_unlink(1M)` to log misleading error messages.

This bug also may occur after execution of `bringup(1M)`, since `bringup` runs the `domain_unlink` command.

**Workaround:** Either execute the `bringup(1M)` command with its `-f` (force) option; or, execute `domain_unlink(1M)` with its `-f` option then manually run a short `hpost(1M)` operation to clear the domain's hardware state.

## 4093896

`libidn` does not properly unlink newly (DR) attached system boards.

A DR `init_attach(1M)` operation fails (that is, probably panics) after the IDN unlink operation has been internally performed; however, the failure occurs before the IDN link operation has been completed. **Workaround:** None.

## 4094093

`domain_unlink` fails with unclaimed boards message.

`domain_unlink(1M)` will mistakenly report that a hardware configuration problem exists with respect to board associations seen in the hardware and those described in the `domain_config` file. The command will possibly report that it cannot associate some boards with any particular domain; thus, it classifies them as unclaimed. **Workaround:** None.