



Trusted Solaris 7 Release Notes

Sun Microsystems, Inc.
901 San Antonio Road
Palo Alto, CA 94303-4900
U.S.A.

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Trusted Solaris 7 Release Notes

Note - We strongly recommend that you read and use *Trusted Solaris Installation and Configuration* (PN 805-8056-10) to guide you in configuring the Trusted Solaris operating environment. The differences between this secure operating environment and a base Solaris operating environment, such as — clearance confirmations, obligatory passwords, security configuration choices, NIS+ domain setup, secure network setup, no superuser — require planning and guidance during installation and configuration.

The Trusted Solaris 7 operating environment is an upgrade to the Trusted Solaris 2.5.1 release, and a security-enhanced version of the following software: Solaris 7 operating environment (including quarterly upgrades through 8/99), CDE 1.3 (Common Desktop Environment), and the Solstice™ AdminSuite™ 2.3 administrative interface. The release incorporates patches to the Trusted Solaris 2.5.1 operating environment, the window system (XW), and patches for the Solaris, CDE and Solstice AdminSuite releases.



Caution - Do not apply patches that may be available for the standard releases of Solaris software, CDE, or Solstice AdminSuite.

Getting Help

For assistance in using the document set, see the *Trusted Solaris Roadmap* (PN 805-8051-10) document.

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Supported Hardware

The Trusted Solaris 7 release supports the workstation, server, and peripherals hardware supported by the Solaris 7 release through the Solaris 8/99 update release. See *Solaris 7 8/99 Sun Hardware Platform Guide* in the *Solaris 7 8/99 on Sun Hardware Collection*.

Patches

The Trusted Solaris 7 release includes the following product patches and upgrades:

TABLE 1-1 Product Patches and Upgrades Integrated in Trusted Solaris 7

Product	Patch No.	Area Affected
CDE 1.3	106934-03	libDtSvc
	107001-01	Actions
	107011-01	sdtwebclient
	107022-03	Calendar Manager
	107072-01	Spell Checker

TABLE 1–1 Product Patches and Upgrades Integrated in Trusted Solaris 7 *(continued)*

Product	Patch No.	Area Affected
	107094-04	dtterm libDtTerm.so.2
	107178-01	libDtHelp.so.1
	107180-07	dtlogin
	107200-07	dtmail
	107219-02	dtprintinfo
	107226-05	dtwm
	107248-01	sdtaudio
	107306-01	dtfile
	107688-01	Actions
	107802-01	OBSOLETE by 107081
XWindows	106725-01	mailtool vacation security
	106843-01	(JFP 7): OW workspace menu bug
	107078-12	Xsun
	107233-01	xterm
	107250-02	libsv8.so.1
	107337-01	KCMS configure tool has a security vulnerability
	107374-01	Xview
	107546-02	Ultra 80 Support
	107723-01	printtool
	107807-01	xrdb
	107853-01	xdm patch
Solstice AdminSuite 2.3	None	No applicable patches.

TABLE 1-1 Product Patches and Upgrades Integrated in Trusted Solaris 7 (continued)

Product	Patch No.	Area Affected
Solaris 7	various	All patches incorporated into the Solaris 7 releases through the Solaris 8/99 update release.
Trusted Solaris 2.5.1		Trusted Solaris 7 contains all the patches released for Trusted Solaris 2.5.1.

Significant Changes from the Trusted Solaris 2.5.1 Release

- ILs (Information Labels) have been removed from Trusted Solaris 7 software.
- The Trusted Solaris 7 release supports Intel architecture and the Sun Enterprise™ 10000.
- The Trusted Solaris man pages are part of the SUNWman package.

See the *Trusted Solaris 7 Transition Guide* for the changes from the Trusted Solaris 2.5.1 release to the current release.

Trusted Solaris 2.5.1 Bugs Fixed in This Release

The following bugs reported in the *Trusted Solaris 2.5.1 Release Notes* have been fixed in the Trusted Solaris 7 software:

- *Trusted Solaris Audit Administration* contains the correct procedures for enabling and disabling auditing.
- The network transports supplemental groups and audit information.
- Installing Solaris 7 or an earlier version on a machine previously installed with the Trusted Solaris operating environment, no longer results in panics.
- There are no duplicate entries when viewing authorization description database with the command `man auth_desc`.

- Audit records for successful `ftp` identification and authentication are now generated.
- Audit records are now generated for:
 - A user who does not have remote login authorization trying to log in.
 - A user trying to log in at an SL higher than the user's clearance.
 - A user trying to log in at an SL lower than the user's minimum label.
 - A role user trying to log in.
 - A user trying to log in to an expired account.
- `auditd(1M)` does not drop or appear to drop audit records.
- The `audit(1M)` command in the Audit Control execution profile is usable by the `secadmin` role.
- 128 authorizations are allowed, and the reserved authorizations are not parsed as if they are real authorizations.
- The command `rm -rf directory` no longer panics the workstation.

Known Problems with the Software

This section identifies known problems in the Trusted Solaris 7 software, describes them, and suggests solutions to them. These bugs may or may not be fixed in a future release.

Allocating space for diskless clients during install time does not work (4280877)

When you install a system and allocate space for diskless clients, it does not create directories named `/export/root` or `/export/Trusted_Solaris_7`. It also does not create any file listing the OS services.

Workaround: Name the partitions and allocate the space by customizing disk partitions during the installation program.

Sometimes root role cannot launch applications after install (4277688)

The user cannot start any application, either from the front panel or from the workspace menu. This happened on some machines, and not on others.

Workaround: Restart the Workspace Manager.

1. Right-button on the background window and choose Window > Restart Workspace Manager.
2. Confirm.

Some man commands fail with an error message (4290121)

Some `/usr/man` directories have permissions `dr--r--r--`.

Workaround: In the role `secadmin`, add execute permission to the affected directories.

```
$ chmod a+x /usr/man/sman1 /usr/man/sman3n /usr/man/sman3s
/usr/man/sman3t /usr/man/sman3x /usr/man/sman9f
```

Auditing of 64-bit programs does not work (4288647), (4287445), (4268980)

There are cases where preselection in `libbsm` does not properly occur. The 64-bit `t6` library calls `t6peek_attr(3N)` and `t6last_attr(3N)` fail in `libbsm`. `auditwrite(3)` does not work in 64-bit programs.

Workaround: Do not audit 64-bit programs.

Audit characteristics of `msix` and `tsol` (4048995)

Audit values for the `msix` (Trusted Solaris 2.5.1 and Trusted Solaris 7) host type in the `tnrhttp` do not correspond well with their Trusted Solaris 1.2 definitions.

TABLE 1-2 Audit Characteristics Defined in Different Trusted Solaris Releases

Trusted Solaris 7 Audit Characteristics	Trusted Solaris 1.2 Audit Definitions in Trusted Solaris 7 <code>tnrhttp</code>
<code>def_audit_uid = 4294967294</code>	<code>def_audit_auid=3</code>
<code>def_audit_mask = 0,0</code>	<code>def_audit_mask=0x0000000000000000</code>

TABLE 1–2 Audit Characteristics Defined in Different Trusted Solaris Releases (continued)

Trusted Solaris 7 Audit Characteristics	Trusted Solaris 1.2 Audit Definitions in Trusted Solaris 7 <code>tnrhttp</code>
<code>def_audit_terminal = 0,0</code>	<code>def_audit_termid=0x0000000000000000</code>
	<code>def_audit_asid=0</code>

Workaround: None.

Audit affects TCP between TSIX hosts (4291482)

Audit attributes prevent TCP from working properly between TSIX hosts.

Workaround: None.

Label encodings file is visible (4029612)

The `label_encodings` file is not protected from reading.

Workaround: None.

Label encodings file has locale-sensitive information

The `label_encodings(4)` file contains locale-sensitive information. However, not all system programs that use the file are guaranteed to be locale-aware.

Workaround: In multi-byte locales or non-C locales where upper/lower case are not a direct mapping of the C locale, the classification and word names, short names, alternate names in the `label_encodings` file and all string labels in all databases *must be in upper case only*. Also, all labels must be entered in upper case only:

- On the command line where the locale has not been set, or
- To commands which do not call the library function `setlocale(3C)` with the correct locale.

Patch 106748-03/106749-03 does not install completely (4290168)

The SUNWxcu4t package is not patched when the patch 106748-03 (SPARC)/106749-03 (Intel) is installed.

Workaround: In the root role, copy the patch files from the CD to the machine.

▼ Copy Patch Files

1. Mount the install CD.

a. On a SPARC machine:

```
cd cd-mount-point/Trusted_Solaris_7/Patches/106748-03/SUNWxcu4t/reloc/usr/xpg4/bin
```

b. On an Intel machine:

```
cd cd-mount-point/Trusted_Solaris_7/Patches/106749-03/SUNWxcu4t/reloc/usr/xpg4/bin
```

2. Copy the original files on the machine to *.orig.

```
# cp -p /usr/xpg4/bin/make /usr/xpg4/bin/make.orig
# cp -p /usr/xpg4/bin/get /usr/xpg4/bin/get.orig
# cp -p /usr/xpg4/bin/sccs /usr/xpg4/bin/sccs.orig
# cp -p /usr/xpg4/bin/delta /usr/xpg4/bin/delta.orig
```

3. Copy all files in the `usr/xpg4/bin/` directory from the CD to the machine.

```
# cp * /usr/xpg4/bin
```

Some commands and library routines are not fully functional

The following commands and library routines are not fully functional.

`rpcinfo(1M)` **(4040593)**

Requires privilege to contact a Trusted Solaris 1.2 workstation.

`snoop(1M)` **(4024442)**

When used with the `-v` option to display an output file, dumps core if it encountered the TSIX SATMP protocol in the file.

`bltos(3) label function` **(4029584)**

Binary to string-coded and string-coded to binary label translation is not MT-safe.

`libtsol()` **label functions (4055191)**

`libtsol()` label functions change logging behavior of programs that use the label functions, that is, they change `syslog` parameters.

`t6recvfrom(3N)` **(1249220)**

The mask argument of `t6recvfrom()` should contain the bits for the new attributes if `t6new_attr(3N)` is called. Instead, it contains the full set of attributes.

`t6get_endpt_default(3N)` **(1239143)**

Should require `sys_audit` privilege. Currently network interfaces succeed in setting audit attributes without `sys_audit` privilege. For TSOL connections, the audit attributes are ignored. For TSIX connections, the audit attributes are transmitted to the remote peer.

Swmtool does not work (4284167)

The `swmtool(1M)` utility does not work in the Trusted Solaris 7 operating environment.

Workaround: Use the `pkgadd(1M)` utility.

Tnrhttp template window is too large on Intel architecture (4290621)

The bottom field, CIPSO Domain, is not shown in the window. The window cannot be resized to see the field.

Workaround: Make the font smaller.

▼ Make Small Display Font on Intel

1. Launch the Style Manager from the front panel.
2. Click on Font.
3. From the size list on the right of the window, select Small(3).
4. Click OK.
5. To get the new font, right-button on the background window, choose Window > Restart Workspace Manager. Confirm. Or, log out and log back in.

Trusted Solaris 7 does not update the Solaris SUNWrdr package

Read the files in SUNWrdr for information on the basic Solaris 7 environment.

Workaround: For late-breaking news, use this book, *Trusted Solaris 7 Release Notes*.

Application reads previous locale's message in C locale (4282857)

Reading a previous locale's font in a new locale happens occasionally. For example, an application reads a ja message in the C locale after a user has logged out of the ja locale and logged in to the C locale. The previous locale's text can obscure menu labels, titles, and icon labels.

Workaround: Ignore extra "Htt"s in C locale. If text in the C locale is unreadable, log out and log in once more to the C locale.

SUNWplow partially fails when adding Intel service on SPARC OS server (4291764)

When adding Intel architecture to an OS server using the Host Manager on a SPARC machine, the following error happens: `Error: Error adding OS service Trusted_Solaris 7 i386 i86pc: service modification failed.`

Workaround: Ignore the error message.

Known Problems with the Documentation

The version of the *Trusted Solaris 7 Roadmap* on the Trusted Solaris 7 Documentation CD contains inaccurate information in the section, “To Install the AnswerBook2 Server Software.” The correct information is available in the printed version of the *Trusted Solaris 7 Roadmap* and in the `README_en.txt` file on the Trusted Solaris 7 Documentation CD.