

Trusted Solaris 2.5 Release Notes

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THE NETWORK IS THE COMPUTER™

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Trusted Solaris 2.5 Release



The Trusted Solaris 2.5 operating system is a security-features-enhanced version of the following software: Solaris 2.5.1 operating system, CDE 1.0.2 (Common Desktop Environment), and Solstice AdminSuite 2.1 administrative interface.



Caution – Do not apply patches that may be available for the standard releases of Solaris 2.5.1, CDE 1.0.2, and Solstice AdminSuite 2.1.

Getting Help

The document set for the Trusted Solaris 2.5 product is available in hard-copy and on CD in PostScript format. For extra copies of the document set or a particular book in the set, print using the PostScript file from the CD.

The *Trusted Solaris 2.5 AnswerBook* is available as of September 1997.

For assistance in using the document set, see the *Trusted Solaris Documentation Roadmap* (PN 805-8004-10).

Ordering Solaris 2.5.1 Hardcopy Documentation

The SunDocsSM program makes available for individual sale product documentation from Sun MicrosystemsTM Computer Company and SunSoftTM. For a list of documents and order information, see the catalog section of the *SunExpressTM On The Internet* site at <http://www.sun.com/sunexpress>.

Ordering CDE Manuals

The CDE manuals are not Sun manuals. They are available in local bookstores or from Addison-Wesley Publishing.



Common Desktop Environment: User's Guide

(48951) Cost: US\$24.75

Common Desktop Environment: Advanced User's and System Administrator's Guide

(48952) Cost: US\$24.75

- Call Addison-Wesley Publishing at 1-800-822-6339 for information.
- Fax orders to Addison-Wesley Publishing at 617-944-8243.
- Mail orders to

Addison-Wesley Publishing Company
Trade Computer Books Marketing Department
One Jacob Way
Reading, MA 01867

Compatibility

SPARC Platforms

The Trusted Solaris 2.5 release supports most SPARC workstation and server hardware supported by Solaris 2.5.1. This hardware includes the following architecture types:

- sun4c (for example, SPARCstation 1, 1+, and 2)
- sun4m (for example, SPARCstation 4, 5, 10, 20, and SPARCserver 6xx)
- sun4d (for example, SPARCserver 1000 and 2000)
- sun4u (for example, Ultra 1 and 2; and Enterprise Server 5000)

Note - The SPARC Xterminal 1, a sun4m machine, is not supported.

Mass Storage

The Trusted Solaris 2.5 release supports most of the general mass storage options (disks, CD-ROMs, floppy disks, tapes) supported by Solaris 2.5.1. However, it does not support some of the more specialized mass storage options, such as the SPARCcluster PDB, SPARCcluster HA, and SPARCstorage arrays.



SBus Options

The Trusted Solaris 2.5 release supports the following SBus options:

- SBus Fast SCSI-2/Buffered Ethernet Card (FSBE/S)
- SBus SCSI/Buffered Ethernet Card (SBE/S)
- SBus SCSI Host Adapter
- SBus Differential Fast/Wide Intelligent SCSI-2 Host Adapter (DWIS/S)
- SBus Single-Ended Fast/Wide Intelligent SCSI-2 Host Adapter (SWIS/S)
- SBus Quad Ethernet Controller (SQEC)
- SBus FastEthernet Adapter SBus Card
- Token Ring Interface/SBus (TRI/S) for Solaris 2.x
- PCMCIA Interface/SBus Card

Video and Multimedia Options

The Trusted Solaris 2.5 release supports the following multimedia options:

- SunVideo Realtime Video Board
- Multimedia Kit, Camera

Note – Use of multimedia devices requires a discrete privilege, `sys_devices`, to override the security policy.

Graphics Options

The Trusted Solaris 2.5 release supports the following graphics accelerators and frame buffers:

- 24-bit True Color (S24 Frame Buffer)
- GX 8-bit Accelerated Graphics
- TurboGX 8-bit Accelerated Graphics
- TurboGXplus 8-bit Accelerated Graphics
- ZX 24-bit Color Accelerated Graphics
- TurboZX 24-bit Color Accelerated Graphics
- SX 24-bit Color Accelerated Graphics (4MB and 8MB)
- cgthree
- Creator
- Creator 3D



Of General Interest

Simple Label Encodings File

The Trusted Solaris `/etc/security/tsol` directory includes a file called `label_encodings.simple` that can be used by customers who do not need all the capabilities of the government-furnished default `label_encodings` files.

The labels are `PUBLIC`, `INTERNAL_USE_ONLY`, `NEED_TO_KNOW`, and `REGISTERED`. Customers can copy this file and substitute their own sets of labels and words. The `label_encodings.simple` file specifies labels that meet a hypothetical company's requirements for labeling email and printer output.

Man Pages

Both the standard Solaris man pages and the Trusted Solaris man pages are available online. For example, you can display the Trusted Solaris version of the `mount` man page (the `mount(1MTSOL)` command is modified in Trusted Solaris) with either of these commands:

```
% man mount
% man -s1mtsol mount
```

You can display the standard Solaris version of the `mount` man page with:

```
% man -s1m mount
```

Online Help

Trusted Solaris online help is available during login, from the Front Panel, and from the applications in the `Solstice_Apps` folder. The Label Builder, the Selection Manager (for cut and paste and for drag and drop operations), and the Privilege Builder invoke CDE help from their Help button.



Known Problems with the Software

This section identifies known problems in the Trusted Solaris 2.5 software, describes them, and suggests solutions to them. There is no guarantee that the bugs will be fixed.

Area	Short Description	See ...
Installing and Booting	<i>init and telinit</i>	<i>page 6</i>
	<i>Dataless system type not supported</i>	<i>page 6</i>
	<i>Disk partition size</i>	<i>page 6</i>
	<i>Lockscreen fails for install account</i>	<i>page 6</i>
	<i>PROM password</i>	<i>page 7</i>
	<i>Reinstalling standard Solaris</i>	<i>page 7</i>
Auditing		<i>page 7</i>
Database Files	<i>auth_names.h</i>	<i>page 8</i>
	<i>label_encodings file</i>	<i>page 8</i>
	<i>tnrhdb database</i>	<i>page 8</i>
	<i>tnrhtp database</i>	<i>page 8</i>
File System	<i>Device files</i>	<i>page 9</i>
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	<i>User Manager</i>	<i>page 16</i>

Installing and Booting

init and telinit

The `init(1M)` and `telinit(1M)` commands cannot be used to transition to single-user mode. *Bug ID: 4014318*

Workaround: Choose Shut Down from the Trusted Path menu, enter the PROM, and execute the appropriate boot command, such as `boot -s`

Dataless system type not supported

During installation, dataless is offered as a system type. Do not choose it; Trusted Solaris does not support dataless. *Bug ID: 4060368*

Disk partition size

The *Trusted Solaris Installation and Configuration* manual on page 242 notes that disk partition sizes must be smaller than 1000 MB. *Bug ID: 4062554*

Workaround: Ignore the note; partition sizes are not limited.

Lockscreen fails for install account

Going into or coming out of lockscreen sometimes fails for the account `install`. *Bug ID: 4047541*

Workaround: Be sure to complete machine installation, then log out.



PROM password

It is possible to enter maintenance mode without knowledge of the PROM password by interrupting booting with ^C, having `fsck` fail during booting, entering `init 1`, `S`, or `s`, and maybe others. This compromises the tamperproof requirement and the policy that maintenance mode is strongly protected.

Bug ID: 4054363

Workaround: None.

Reinstalling standard Solaris

Installing standard Solaris on a machine previously installed with the Trusted Solaris 2.5 operating system, results in panics. *Bug ID: 1264491*

Workaround: Immediately after booting the Solaris CDROM, bring up a `cmdtool` from the workspace menu and run `newfs(1M)` or `format(1M)` on the disks to prevent the Trusted Solaris UFS file systems from being misinterpreted by the standard Solaris system.

Auditing

Audit values for the `msix` (Trusted Solaris 1.x) host type in the `tnrhtp` do not correspond well with their Trusted Solaris 1.x definitions: *Bug ID: 4048995*

Table 1 Audit Characteristics Defined for Trusted Solaris 1.x Host Types

Trusted Solaris 1.x Definitions	Trusted Solaris 2.5 Definitions
<code>def_audit_auid=3</code>	<code>def_audit_uid = 4294967294</code>
<code>def_audit_mask=0x0000000000000000</code>	<code>def_audit_mask = 0,0</code>
<code>def_audit_termid=0x0000000000000000</code>	<code>def_audit_terminal = 0,0</code>
<code>def_audit_asid=0</code>	

Not all areas in Trusted Solaris 2.5 generate audit information.

Bug IDs: 4029863, 4033057, 4040716, 4061940

Workaround: None.



Database Files

`auth_names.h`

Only 127 authorizations are allowed, rather than the advertised 128. Also, the reserved authorizations are parsed as if they are real authorizations.

Bug ID: 4017899

Workaround: Do not specify more than 127 authorizations, and do not use the reserved authorizations.

`label_encodings` *file*

The `label_encodings` file is not protected from reading. *Bug ID: 4029612*

Workaround: None.

tnrhdb database

Using the *File > Save As* menu item in the Database Manager writes `tnrhdb` entries to a file in an incorrect format. This condition applies to the *Save As* menu item only, not to the *Save* menu item. The saved file has a space between the IP address and the template name instead of a colon (:). *Bug ID: 4048160*

Workaround: Use an editor to add the colon separator to the written file.

tnrhtp database

The Label builder in the `tnrhtp` database manager is not initialized correctly. It does not show correct class values. *Bug ID: 4048130*

Workaround: Since only the initial display of the label is wrong, choose a new level in the label builder. After receiving input, the label builder displays the proper values.



File System

Device files

Device special files do not inherit ACLs. *Bug ID: 1236200*

Raw disks should be protected at ADMIN_HIGH. *Bug ID: 4017319*

Workaround: None.

Setting filesystem label range

The label range of a file system is not enforced, so that a user can create a file with a label outside the label range of the file system. *Bug ID: 4050800*

Workaround: Use the `setlabel` command to explicitly set the out-of-range label to be within the label range.

IL Floating

IL floating is not fully implemented. *Bug ID: 4029607, 4019335, 4034764*

For example,

- When the IL on the frame of a mailer floats, the IL on the X-sender Information Label of an email message does not float.
- When a file is relabeled with a new IL, the new IL does not appear on body pages of printer output and on banner/trailer pages.
- The X-sender IL on an email message shows the internal label view while the ILs on printer output show the external label view.
- If you set an Input IL on a window, the IL will float in the window frame, but the IL on the process does not float.

Workaround: None.



Login

Label Builder screen

The login Label builder screen exits when many keys are pressed during login.
Bug ID: 4047748

Workaround: Use the mouse or press only the Return key. Be sure to wait until the screen appears before typing.

Control of failed logins

Failed login control is not working. If a user fails the login sequence for the configured number of times, the user account should be locked but it is not.
Bug ID: 4050738

Workaround: None.

Networking

tcp_icmp_errors appear on the console

Error messages like the following may appear on the console:

```
WARNING: tcp_icmp_error:msg without attributes
```

This condition occurs randomly. *Bug ID: 4047454*

Workaround: Ignore the messages.

Network boot

Booting a client over the net must be done through the primary interface (le0).
Bug ID: 4051833

Workaround: None.



NFS

NFS enforces MAC policy incorrectly when interoperating with servers running trusted operating systems from other vendors. *Bug ID: 4055374*

Workaround: None.

NFS file systems do not support ACLs. *Bug ID: 4059355*

Workaround: None.

Privilege errors

The `sys_suser_compat` privilege is not implemented. *Bug ID: 4016757*

The `net_nofloat` privilege is not implemented. *Bug ID: 4009286*

See also the interfaces that do not fully implement privileges under “Programming Interfaces” on page 13.

Privilege Debugging

The `runpd(1MTSOL)` command does not log all potential privilege failures. It only follows the primary child process, it only recognizes kernel privileges, and creating a file logs the failed use of `sys_config`.

Bug IDs: 1257272, 1264092, 4026224, 1264331, 4029375

Workaround: You can use the `runpd(1MTSOL)` utility, but the results are sometimes incomplete.

Role Limitations

Adding a printer or other new device

Adding a printer requires the workaround described here. After completing the steps in the workaround, you then use the Printer Manager and Device Manager as described in the Administrator’s document set.

Bug IDs: 4047544, 4047653

Workaround: Assume the root role, open a profile shell, and run with all privileges. Do the following steps:



1. Add an entry for the printer in device_maps.

For a printer named `tsole` connected on serial port `/dev/ttya`:

```
tsole:lp:/dev/ttya
```

2. Create an empty file with the printer's name owned by bin.bin at 000 in /etc/security/dev.

For a printer named `tsole`:

```
tsole
```

3. Create an entry in the device_allocate file:

a. Clone the framebuffer entry (another non-allocatable device).

For a printer named `tsole`:

```
tsole:lp:0x000...:0x7fff...;*/bin/true
```

Administrative tasks sometimes require all privileges

`pfsh` command must be followed by a shell command for many commands to work. *Bug ID: 4035880*

Workaround: When a documented procedure does not work from the `secadmin` or `admin` role, assume the root role, and perform the procedure at the appropriate label in a profile shell with all privileges.

```
# whoami
root
# pfsh
# csh    [or sh or ksh]
# ppriv
pid: all
```



Programming Interfaces

The following commands, system calls, and library routines are not fully functional.

Commands

Command	Description and Workaround, where available
<code>file(1)</code>	Does not recognize MLDs. <i>Bug ID: 4033249</i>
<code>getfacl(1)</code>	Does not display file system default ACLs. <i>Bug ID: 1232416</i>
<code>getlabel(1TSOL)</code>	Does not return short ILs and long SLs. <i>Bug IDs: 1256267, 1230717</i>
<code>mount(1MTSOL)</code> , <code>mount_tmpfs(1MTSOL)</code> <code>mount_hsf(1M)</code>	Does not recognize the <code>devices</code> , <code>nodevices</code> , <code>priv</code> , and <code>nopriv</code> options. A warning message displays; the options are not currently supported. Mounting must be done through an administrative role. <i>Bug ID: 4030751, 4054999</i>
<code>nfsstat(1MTSOL)</code>	The <code>-z</code> option does not work. <i>Bug ID: 4014982</i>
<code>plabel(1TSOL)</code>	Does not return short ILs and long SLs; and returns information on processes outside its label range. <i>Bug IDs: 1230717, 1256267; 1259617</i>
<code>rpcinfo(1MTSOL)</code>	Requires privilege to contact a TS1.2 workstation. <i>Bug ID: 4040593</i>
<code>snoop(1MTSOL)</code>	When used with the <code>-v</code> option to display an output file, dumps core if it encountered the TSIX SATMP protocol in the file. Also, this command currently cannot be used on token-ring and FDDI networks. <i>Bug IDs: 4024442, 1257065</i>
<code>spell(1)</code>	The <code>spell(1)</code> command cannot access <code>/var/adm/spellhist</code> . Its behavior is inconsistent with the man page. Do not use <code>spell</code> ; it is not supported. <i>Bug ID: 4049560</i>
<code>talk(1)</code>	The <code>talk(1)</code> command does not work correctly. Do not use <code>talk</code> ; it is not supported <i>Bug ID: 4048071</i>

System Calls

System Calls	Description and Workaround, where available
<code>exec(2TSOL)</code>	Uses the <code>sys_suser_compat</code> privilege for its <code>setuid(2TSOL)/setgid(2TSOL)</code> process tracing policy (<code>ptrace(2)</code>); it should use the <code>proc_owner</code> privilege. <i>Bug ID: 1241202</i>
<code>setpriv(2TSOL)</code>	Changing the permitted set of privileges of a process incorrectly changes the inheritable set. <i>Bug ID: 4062760</i>



Library Routines

Library routine	Description and Workaround, where available
labelclipping(3TSOL)	The labelclipping(3TSOL) man page refers to a header file, label_clipping.h, which does not exist. You can use the label clipping interfaces, <code>xb*tos</code> , but do not include the header file in the code. <i>Bug ID: 4062654</i>
libtsol label functions	Binary to ASCII-coded and ASCII-coded to binary label translation is not MT safe. <i>Bug ID: 4029584</i> libtsol label functions change logging behavior of programs that use the label functions, that is, they change <code>syslog</code> parameters. <i>Bug ID: 4055191</i>
readl(2TSOL), readvl(2TSOL)	Return wrong label from file on tnfs file system. <i>Bug ID: 4049401</i>
t6last_attr(3NTSOL)	Returns attrs from <code>ioctl()</code> instead of the correct last attrs. <i>Bug ID: 4048084</i>
t6recvfrom(3NTSOL)	The mask argument of <code>t6recvfrom()</code> should contain the bits for the new attributes if <code>t6new_attr(3NTSOL)</code> is called. Instead, it contains the full set of attributes. <i>Bug ID: 1249220</i>
t6set_endpt_default (3NTSOL)	Should require <code>sys_audit</code> privilege. Currently network interfaces succeed in setting audit attributes without <code>sys_audit</code> privilege. For TSOL connections, the audit attributes are ignored. For TSIX connections, the audit attributes are transmitted to the remote peer. <i>Bug ID: 1239143</i>

Window System and GUI Applications

CDE sessions

The window manager does not save the current session when a user logs out. *Bug ID: 4062306*

Workaround: Use the CDE Style Manager to save the home session before you log out.

Drag and drop

Dragging file attachments or selected text from `dtmail` to a front panel icon, such as the Print Manager, does not work. In some cases, `dtmail` or the window manager will exit. *Bug ID: 4062409*



Workaround: Drop a file attachment first to the File Manager, then drag and drop it to a front panel icon.

Trusted Solaris versus Solaris

Parts of Solaris 2.5.1 that were not modified by Trusted Solaris have not been modified to reflect what Trusted Solaris supports. The following are known to be affected; there may be more.

- Host Manager displays Solaris for Trusted Solaris. *Bug ID: 4046981*
- Unmodified Solstice AdminSuite databases, such as Host Manager, also display a NIS Naming Service option. Choose None or NIS+ for the naming service. *Bug ID: 4046976*

Workaround: Ignore the discrepancy; select GUI options supported by the Trusted Solaris software.

Host Manager

The Host manager does not display the system type selected during install. *Bug ID: 4046977*

Workaround: Choose *File > Update System Types*.

The Host Manager cannot save changes when configuring an OS server for diskless clients. The message below appears when you try to save a host after converting it to an OS server. *Bug ID: 4046975*

```
blazer: method os_service_modification: media failure unable to  
perform modification
```

Workaround: If the workstation you plan to use as an OS server already exists in the Host Manager, delete its entry, then add it again as an OS server.

Privilege Builder

The Privilege Builder does not display included privileges even when there are some. *Bug ID: 4055392*

Workaround: Select all the relevant privileges whenever you edit a command or executable to add privileges.



Selection Manager

The Selection manager confirmer comes up twice when using the keyboard to copy and paste. *Bug ID: 4048379*

Workaround: Use the mouse buttons to copy and paste.

Monochrome terminal

On a monochrome terminal, sometimes the workspace name is not visible for an SL of C or TS. *Bug ID: 4010114*

Workaround: Use lighter colors in the color definitions of the `label_encodings` file for these SLs.

User Manager

When adding a second user, sometimes the Label button does not bring up the label builder. *Bug ID: 4036763*

Workaround: Click the Cancel button to refresh the User Manager; the label builder will now appear when the Label button is pressed.