

Subject: Layered Trusted Solaris
Submitted by: Glenn Faden
File: PSARC/2002/762/opinion.ms
Date: March 22nd 2006
Committee: Gary Winiger, James Carlson, Ed Gould, Glenn Skinner, Bill Sommerfeld.
Product Approval Committee:
Solaris PAC
solaris-pac-opinion@sun.com

1. Summary

This project is the Umbrella for adding Multi-Level Security to Solaris in a layered manner. It is a follow on to the previous releases of Trusted Solaris which were complete independent redeliveries of the underlying Solaris base with multi-level security integrated into them. The layered component is a set of packages which when added to Solaris convert it into a multi-level system. The combination of Solaris and the layered packages is intended to meet the Common Criteria Labeled Security Protection Profile.

2. Decision & Precedence Information

This project is approved as specified in references [1] and [2].

This project may be delivered in a patch release of Solaris.

This project depends on the following projects and may not be delivered before them.

LSARC/2004/109	Trusted Solaris X Server Extension
PSARC/2005/060	TSNET: Trusted Networking with Security Labels
LSARC/2005/075	Trusted Solaris CDE
PSARC/2005/259	Layered Trusted Solaris Label Interfaces
PSARC/2005/573	Solaris Trusted Extensions for Printing
PSARC/2005/691	Trusted Extensions for Device Allocation
PSARC/2005/723	Solaris Trusted Extensions Filesystem Labeling
UIRB/2006/006	Trusted Extensions for Solaris Management Console
LSARC/2006/007	Trusted Extensions for Solaris Management Console
PSARC/2006/009	Labeled Auditing
PSARC/2006/155	Trusted Extensions RBAC Changes
PSARC/2006/191	is_system_labeled

3. Interfaces

The project exports the following interfaces.

Interfaces Exported		
Interface	Classification	Comments
	Trusted Extensions Privileges	
<i>net_bindmlp</i>	Stable	TNET kernel interpreted privileges PSARC/2005/060
<i>net_mac_aware</i>	Stable	
<i>sys_trans_label</i>	Stable	svc:/system/labeld interpreted privilege PSARC/2005/259
<i>win_colormap</i>	Stable	X Server interpreted privileges LSARC/2004/109
<i>win_config</i>	Stable	
<i>win_dac_read</i>	Stable	
<i>win_dac_write</i>	Stable	
<i>win_devices</i>	Stable	
<i>win_dga</i>	Stable	
<i>win_downgrade_sl</i>	Stable	
<i>win_fontpath</i>	Stable	
<i>win_mac_read</i>	Stable	
<i>win_mac_write</i>	Stable	
<i>win_selection</i>	Stable	
<i>win_upgrade_sl</i>	Stable	
	Trusted Extensions Package Names	
SUNWtsr	Stable	Core consolidation
SUNWtsu	Stable	
SUNWtsc	Stable	
SUNWtsmc	Stable	
SUNWtsman	Stable	
SUNWwxwts	Stable	X Windows consolidation
SUNWxw-tsol-module	Stable	
SUNWdttsu	Stable	CDE consolidation
SUNWdttsr	Stable	
SUNWdtts help	Stable	
SUNWmgts	Stable	Admin (SMC) consolidation

4. Opinion

The ‘‘Layered Trusted Solaris’’ project started out as an Umbrella for what was to be an unbundled separately priced layer on top of Solaris. During the life of the project, it was decided to bundle it with Solaris and to rename the product to Solaris Trusted Extensions. The subprojects define a number of privileges.

‘‘Least Privilege for Solaris’’ (PSARC/2002/118) defines a mechanism for adding unbundled privileges to the default privilege set. The project team asserted not only that there were bugs in the unbundled privileges support which were not being addressed by the responsible engineer, but also that by the nature of the project it was de facto bundled and it was only prior marketing requirements which had

lead to the perspective of an unbundled delivery. Upon review of the various points [2], the committee, agreed with the project team and approved bundling the privileges within Solaris.

5. Minority Opinion(s)

None.

6. Advisory Information

None.

7. Appendices

7.1. Appendix A: Technical Changes Required

None.

7.2. Appendix B: Technical Changes Advised

None.

7.3. Appendix C: Reference Material

Unless stated otherwise, path names are relative to the case directory PSARC/2002/762.

1. Umbrella Materials
File: inception.materials/*
2. Email discussion
File: mail