PC/SC-lite 1.3 Installation Guide

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This distribution is an update release (the previous version was PC/SC-lite 1.2) an implementation of the PC/SC-lite API, derived from the Open Source M.U.S.C.L.E. project.

PC/SC (Personal Computer/Smart Card) is the standard framework for smart card device access on Windows, Linux, and UNIX platforms.

The distribution contains a base package that installs the PC/SC-lite infrastructure for the Solaris platform, and an optional package that enables interoperability with the integrated Sun Ray smart card readers on Sun Ray thin clients (Solaris platform only). Support for external USB readers is supplied by the CCID handler, as a separate download.

Released with this distribution is posetools as a seperate download bundle. posetools provides diagnostic tools and workarounds for some limitations. posetools contains documentation for each tool in the bundle, including a document in that describes to enable debug logging of all sorts for PC/SC-lite.

For the list of known issues, see the PC/SC-lite 1.3 Release Notes.

Supported Platforms

PC/SC-lite 1.3 is supported on the following operating systems:

- Solaris 10 5/08 or later on SPARC and x86
- Solaris 10 5/08 or later on SPARC and x86 with Trusted Extensions

Important Notes

• At least one of the available optional packages must be installed along with the PC/SC-lite base package to enable it to work with a respective set of readers. The two optional packages currently available are a package that provides PC/SC-lite access to readers on Sun Ray thin clients, and a package that provides PC/SC-lite access to external USB readers.

If both the Sun Ray support package and the USB support package are installed, then USB readers connected to Sun Ray units can be utilized, which goes beyond the access to system console USB readers afforded by the USB support package alone.

The optional Sun Ray support package SUNWpcscdtu requires Sun Ray Server Software (SRSS) 4.1 or later.

How to Install PC/SC-lite 1.3



Note

To install PC/SC-lite 1.3 in a Solaris Trusted Extensions environment, perform the following steps as root from ADMIN_LOW (global zone).

- 1. Download the Sun Ray Software 5.1 Media Pack and make it accessible to the Sun Ray server.
- 2. Remove only the following packages from the Sun Ray Server:
 - SUNWsrcbp
 - SUNWocfd
 - SUNWocfh
 - SUNWocfr
 - SUNWpcsclite
 - SUNWpcsclite-devel
 - SUNWjcom

Please disregard the dependency warnings that appear during the pkgrm operations to remove these packages.

- 3. If you are in a Solaris Trusted Extensions environment, follow steps 3 and 4; otherwise, skip to step 6.
- 4. Add shared multilevel port 5999 to global zone to allow local zone access.
 - a. Start the SMC GUI.

smc &

b. Under Management Tools-Select

hostname: Scope=Files, Policy=TSOL

- c. Select System Configuration->Computers and Networks->Trusted Network Zones->global
- d. From the menu bar, select Action->Properties.
- e. Perform one of the following steps: Click Add under Multilevel Ports for Shared IP Addresses to enable port for shared IP addresses or Click Add under Multilevel Ports for Zone's IP Addresses to enable ports for zone-specific IP addresses.
- f. Add 5999 as Port Number, Select TCP as Protocol, and click OK.
- 5. Restart tnctl service using the following command:

```
# svcadm restart svc:/network/tnctl:default
```

6. Verify that these ports are listed as shared ports by running the following command:

```
# /usr/sbin/tninfo -m global
```

7. Install the PC/SC-lite 1.3 base package SUNWpcsc, and optional Sun Ray package SUNWpcscdtu.

```
# pkgadd -d . SUNWpcsc
```

To enable PC/SC-lite 1.3 Sun Ray support. install optional SUNWpcscdtu package:

```
# pkgadd -d . SUNWpcscdtu
```

To enable PC/SC-lite 1.3 external USB reader support, download and install the package from the optional CCID distribution using the instructions provided with that separate download.