

Upgrading the TED Using the Universal TED Updater Technical Reference

Overview

Introduction

The Universal TED Updater includes Transaction Encryption Device (TED) application software and firmware for all TED platforms. This includes:

- TED 4 on a UCS200-M server with an nCipher HSM card
- TED 3 on a Netra 4200X server with a Sun/Oracle SCA6000 HSM card
- TED F/X with a Rainbow CryptoSwift CryptoGraphic Accelerator card

After installing release 1.0.x of the Universal TED Updater onto the Digital Network Control System (DNCS), you must then push the application to the TED server. This document provides all the necessary procedures.

Purpose

Use this document to install the Universal TED Updater 1.0.x onto the DNCS.

Audience

This document is written for network system administrators, DNCS operators, and field service engineers responsible for installing the TED server. System administrators should have extensive working experience within their network architecture and with using UNIX-based text editors.

Document Version

This is the first formal release of this document.

Installing the Universal TED Updater

Remove the SAITedUpd Package from the DNCS

Because the Universal TED Updater package is a new and unique SAI package, the existing TED Updater package is no longer needed. Before installing the new Universal TED Updater (SAIUniTedUpd) package, you must remove the existing TED Updater (SAITedUpd) package from the DNCS.

Complete the following steps to remove the SAITedUpd package from the DNCS.

- 1 If necessary, open an xterm window on the DNCS.
- 2 Complete the following steps to log on to the xterm window as **root** user.
 - **a** Type **su** and press **Enter**. The password prompt appears.
 - **b** Type the root password and press **Enter**.
- **3** Type the following command and press **Enter** to verify that the SAITedUpd package is installed on the DNCS.

```
pkginfo -1 SAITedUpd | grep VER
```

Note: In some cases, the SAITedUpd package may not exist on your DNCS. If it does not exist, you can skip the rest of this procedure.

Result: The package version is displayed.

Example:

pkginfo -1 SAITedUpd | grep VER VERSION: 3.1.0.8

4 Type the following command and press Enter.

pkgrm SAITedUpd

Result: You are prompted to confirm the removal of the package.

5 Type **y** and press **Enter**.

Result: When the script completes, you should see the following message: Removal of <SAITedUpd> was successful.

6 Repeat step 3 to confirm the package removal.

Result: The following message should appear. # pkginfo -1 SAITedUpd | grep VER ERROR: information for "SAITedUpd" was not found.

Install the Universal TED Updater on the DNCS

Complete the following steps to install the Universal TED Updater (SAIUniTedUpd) 1.0.x package on the DNCS.

- 1 Open an xterm window on the DNCS and log in as root user.
- **2** Type the following command and press **Enter** to source-in the environment variables.
 - . /dvs/dncs/bin/dncsSetup

Important: Be sure to type the period followed by a space before typing / dvs.

- 3 Insert the CD labeled SAIUniTedUpd 1.0.x into the CD drive of the DNCS.
- 4 Once the CD has mounted, type the following command and press Enter. cd /cdrom/cdrom0
- **5** Type the following command and press **Enter** to install the SAIUniTedUpd package.

install_pkg

Result: You are prompted to confirm the installation of the package.

6 Type **y** and press **Enter**.

Result: The installation of the package begins. When the installation completes, the following message appears.

Installation of <SAIUniTedUpd> was successful. For more SAIUniTedUpd package installation messages refer to: /var/sadm/system/logs/SAIUniTedUpd_1.0.0_install.log

- 7 Access the /var/sadm/system/logs/SAIUniTedUpd_x.x.x_install.log and check for any errors. Did any errors occur?
 - If **yes**, contact Cisco Services for assistance.
 - If **no**, continue with step 8.
- **8** Type the following command and press **Enter** to verify that the SAIUniTedUpd package installed successfully and that the correct version is installed.

pkginfo -1 SAIUniTedUpd

# pkginfo -1	SAIUniTedUpd
PKGINST:	SAIUniTedUpd
NAME :	Universal TED Update 11-17-11
CATEGORY:	application
ARCH:	SunOS_sparc
VERSION:	1.0.0
BASEDIR:	/dvs
VENDOR:	Cisco Systems, Inc
DESC:	Universal TED Update 11-17-11
PSTAMP:	flash20111117152733
INSTDATE:	Nov 18 2011 11:25
STATUS:	completely installed
FILES:	42 installed pathnames
000000000000000000000000000000000000000	1 shared pathnames
	6 directories
	31 executables
	174202 blocks used (approx)

- 9 Type **cd** and press **Enter** to make the root directory the working directory.
- 10 Type eject cd and press Enter to eject the CD from the DNCS.

Push the TED Application from the DNCS to the TED

Complete the following steps to push (install) the appropriate TED application to the TED server.

Important: These steps should be performed during a maintenance window.

1 From a **dncs** xterm window, type the following command and press **Enter**. **dncsStop**

Result: You are prompted to confirm stopping the DNCS processes.

- 2 Type y and press Enter.
- 3 Type the following command and press Enter. dncsKill
- 4 Return to the root xterm window and type the following command and press **Enter**.

/dvs/dncs/TED/update/updateTED

Result: The upgrade process begins and you are prompted to enter the host name for the site you want to add to the known hosts.

Note: The first time you run the updater, you are asked to add the host name and the IP address of the TED server. This process adds the TED server as a known host and creates a public/private key that is used for identification when the SSH protocol is invoked.

- **5** Type the host name for the TED server, such as *dncsted*, and press **Enter**. **Result:** You are prompted for the IP address for the host.
- 6 Type the IP address for the host name you added, such as 192.168.1.2, and press **Enter**.

Result: The information you entered in steps 5 through 6 appears and you are prompted to continue the installation.

```
Determining the encryption server version...
Enter the host name of the site you are adding: dncsted
Enter the IP address of the site you are adding: 192.168.1.2
The following line will be added to /etc/hosts:
192.168.1.2 dncsted
Do you want to continue? [y,n,q] ,
```

7 Type **y** and press **Enter**.

Result: You are prompted for the root password to the site you are adding.

8 Type the **root** password for the TED and press **Enter**.

Result: A set of specific keys is created for the exclusive use of this TED and the current status of the TED server appears. You are prompted to continue with the installation.

9 Type **y** and press **Enter**.

Result: The package files are pushed from the DNCS to the TED server. When the installation completes, the current status of the TED server appears and the TED server reboots.

Note: This step can take as long as 5 minutes to complete.

```
Pushing over required package files...

Running the install script on the TED: Please be patient..

Checking the version on the TED...

Currently installed TED status:

Architecture: TED3

Platform: Sun Microsystems : Netra X4200 M2

Encryption Device: sca6000

Firmware version: 1.1.8

Platform os version: 2.6.18-53.el5

Platform installation version: 1.0.5

Software version: 3.1.0.11

Update package status:

Firmware version: 1.1.8

Software version: 3.1.0.11

NOTE: The installed version is current.

The TED server is rebooting and it will be a few minutes until it is ready.

TED update finished.
```

10 From a **dncs** xterm window, type the following command and press **Enter**.

ping -s dncsted

Note: When the TED can be pinged, it is back online.

11 From the dncs xterm window, type the following command and press **Enter** to restart the DNCS processes.

dncsStart

12 Type the following command and press **Enter** to launch the Administrative Console.

admincon

13 Launch the DNCS process tree from either the WUI (SR4.3/SR4.2) or from the Process Status tab (SR 5.0 or later). All processes should be green.

For Information

If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.

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