



**Haliplex**  
Communication Systems

# **HPX-1600 USER GUIDE**

## **Appendix C: Software Updates with HPXUpgrade**

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## 1. INTRODUCTION

This document describes the Haliplex software upgrade utility, HPXUpgrade that simplifies the task of loading HPX-1600 embedded software including additional device drivers for recently installed interfaces.

Software upgrades are released on a regular schedule as Service Packs. Each Service Pack contains all of the embedded software for the Haliplex communications hardware products HPX-1600 as well as the co-requisite graphical management software for Windows, HPXView. New Service Packs contain support for new hardware interfaces, additional capabilities for existing hardware and bug fixes.

The Service Pack contains both embedded software and Windows PC software that are tightly matched to support a common suite of features and functions. When running HPXView management software, you should ensure that the correct version is used that matches the target HPX-1600 software. Using a mismatched version may result in indeterminate results such as communications errors or unsupported features. As networks of mixed revisions may be supported from a common Windows PC, Haliplex support the installation of multiple Service Packs on a PC.

HPXView and HPXUpgrade software are installed on the target Windows PC by running the application setup.exe from the Service Pack CDROM or downloaded from the Haliplex web site <http://www.haliplex.com> .

## 2. HPX-1600 SOFTWARE UPGRADE

The upgrade of single processor systems can be completed in a single operation that is followed by a system reboot. Single processor systems are;

- HPX-1600-IA
- HPX-1600-SS

### 2.1. ADDING A NEW DEVICE TYPE

In the instance when a HPX-1600 is at the required software service pack level, but a new device type has been added (see Chapter 3-1 section 4-5) simply add the device type before running HPXUpgrade. HPXUpgrade will automatically read the device table and by auto detecting the installed software, will only install the software required to support the new device type.

## 2.2. UPGRADE TO A NEW SERVICE PACK

The upgrade to a new Service Pack is defined as the new Service Pack number being a higher number than the installed service pack. This can be a change to the major version number or only a minor version number change. A major change would be for example from SP3.7 to SP3.8. A minor change would be for example from SP3-7 to SP3-7-1 or SP3-7-1 to SP3-7-2

### 2.2.1. MAJOR VERSION

Upgrades that involve a change to the major revision number may involve a significant change to the HPX-1600 file system structure. Changes to the file structure may risk the loss of existing system configuration. In most cases, the upgrade process will automatically convert the configurations written with the previous major release Service Pack to the new Service Pack file system format. This feature only applies for the immediate previous service pack major release. If upgrading across more than one major version, Haliplex recommend that multiple upgrades be applied, one for each single increment in the major service pack number. For example;

- Upgrade from SP2-5-1-2 to SP3-6
- Upgrade from SP3-6 to SP3-7
- Upgrade from SP3-7 to SP3-8

Please read carefully the release notice that accompanies the Service Pack.

### 2.2.2. MINOR VERSION

Upgrades within a major version that change only the minor service pack version, retain the same file system. Minor Version upgrades can generally be made without any special consideration but always read carefully the release notice that accompanies the Service Pack.

Example of minor version upgrade;

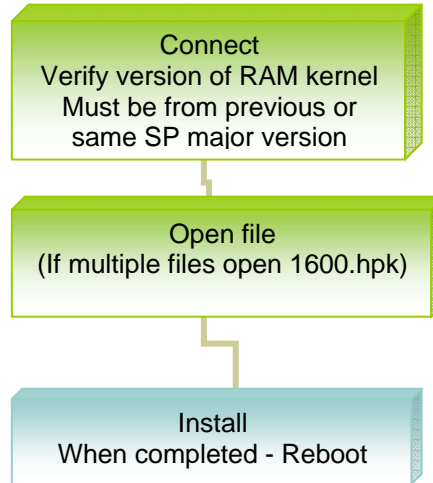
- Upgrade from SP3-7 to SP3-7-1

## 2.3. SOFTWARE FILES

Service pack software for the embedded file systems of the HPX-1600 are distributed in a compressed file structure identified with an “.hpk” suffix. The HPXUpgrade application will unpack and display the compressed files before installation.

## 2.4. UPGRADE PROCEDURE

First connect the windows PC to the target HPX-1600 using either a serial COM port or an IP based LAN. Run HPXUpgrade from the START→ PROGRAMS→ Haliplex menu.



### 2.4.1. SAMPLE HPX-1600-SS UPGRADE

Connect to the HPX-1600 node from COM1 port as shown in Figure 1.

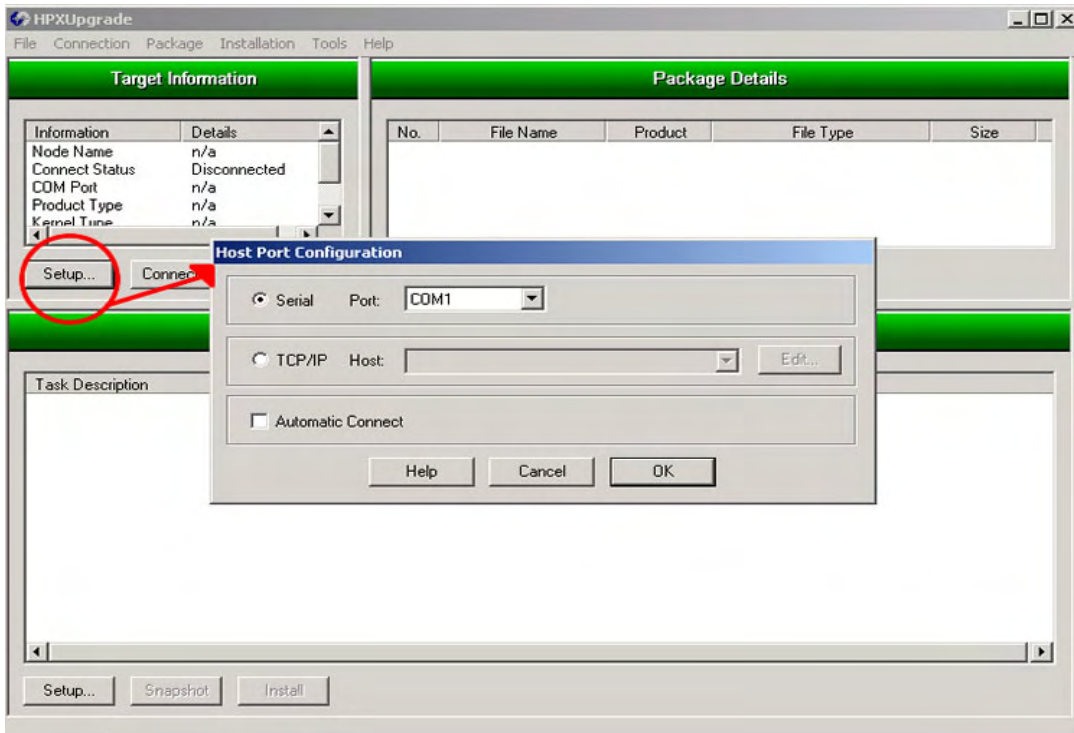


Figure 1 : Setup HPX-1600 Host Port Configuration

Connect to the SDC and enter the default username “admin” with no password. Refer to Figure 2.

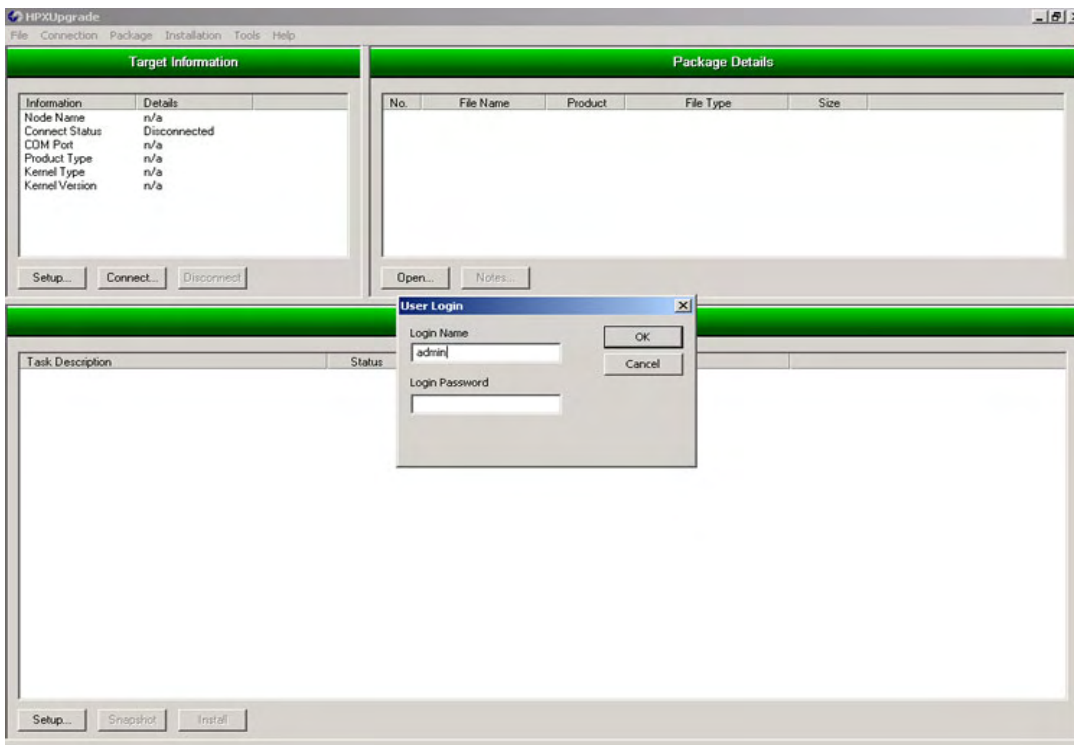


Figure 2 : Connect to SDC

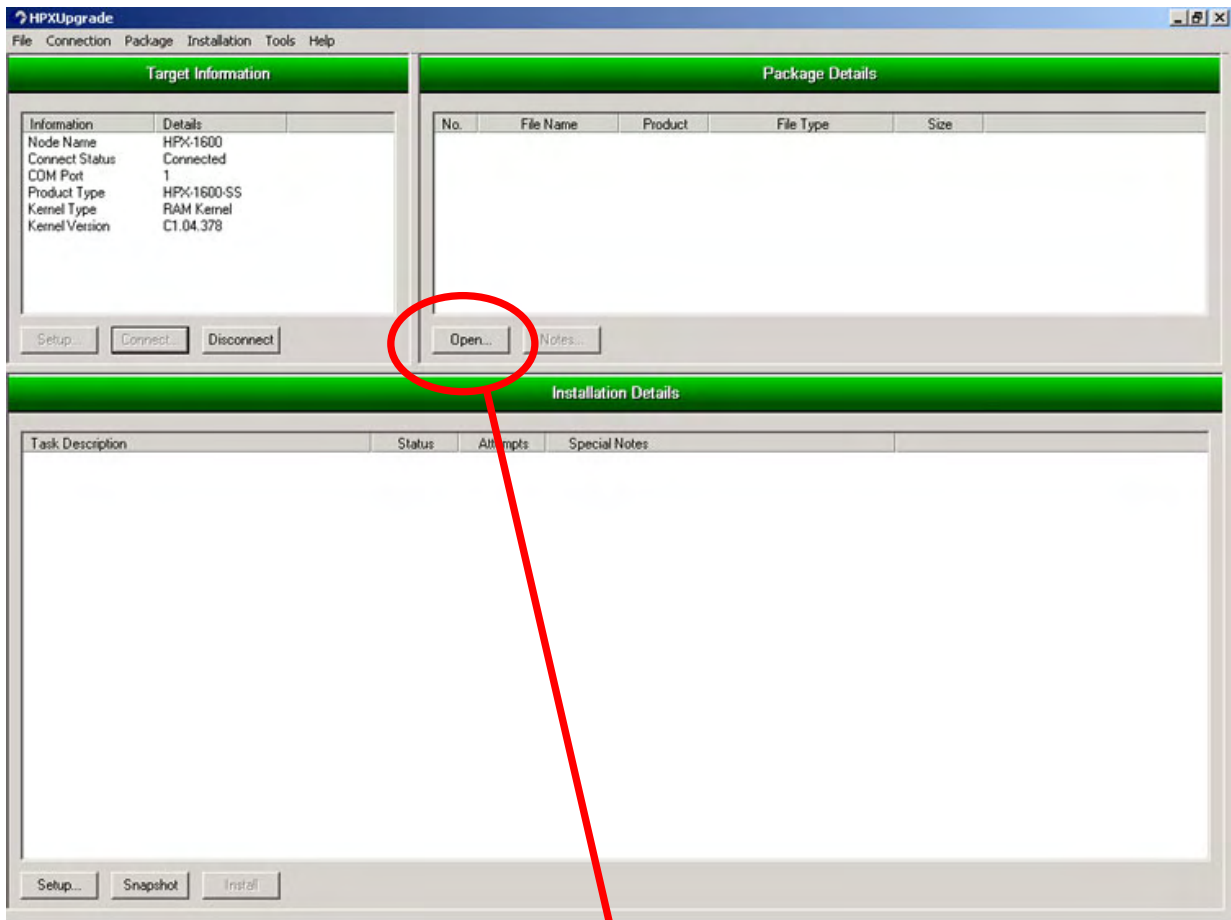


Figure 3 : Verify the SDC RAM kernel

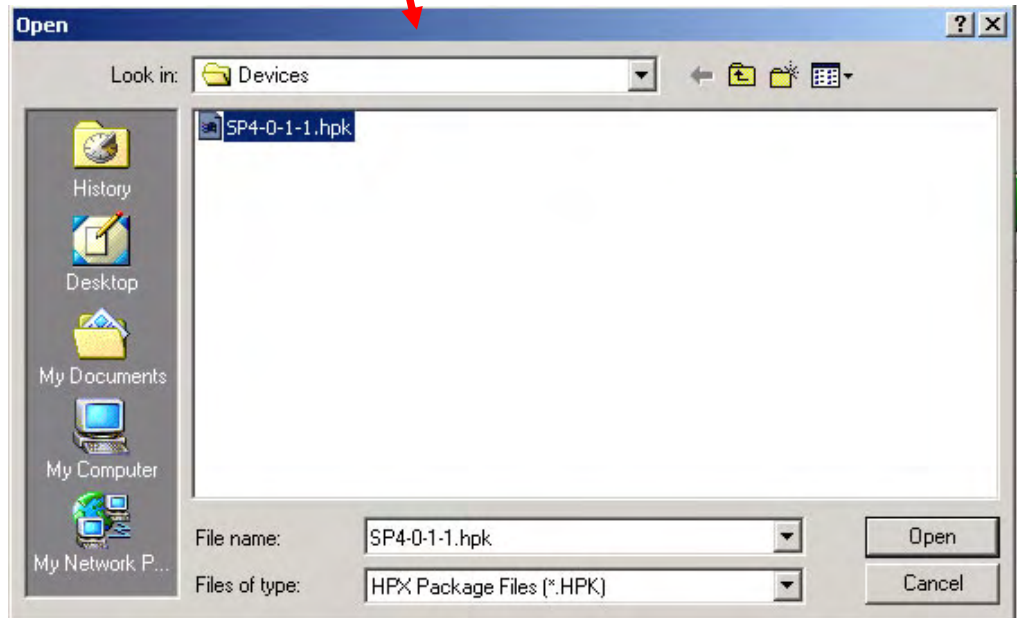


Figure 4 : Open the hpk file

From the Target Information window the user can verify the details of the node he wants to upgrade with the connection status and RAM Kernel type and version, as shown in Figure 3.

The details of the files in the hpk package file will appear in the package details window. The user can view the file name and the product its specified for with the file type and size of the file.

From the setup with the installation options select “Smart” installation (check Target files), refer to figure 5.

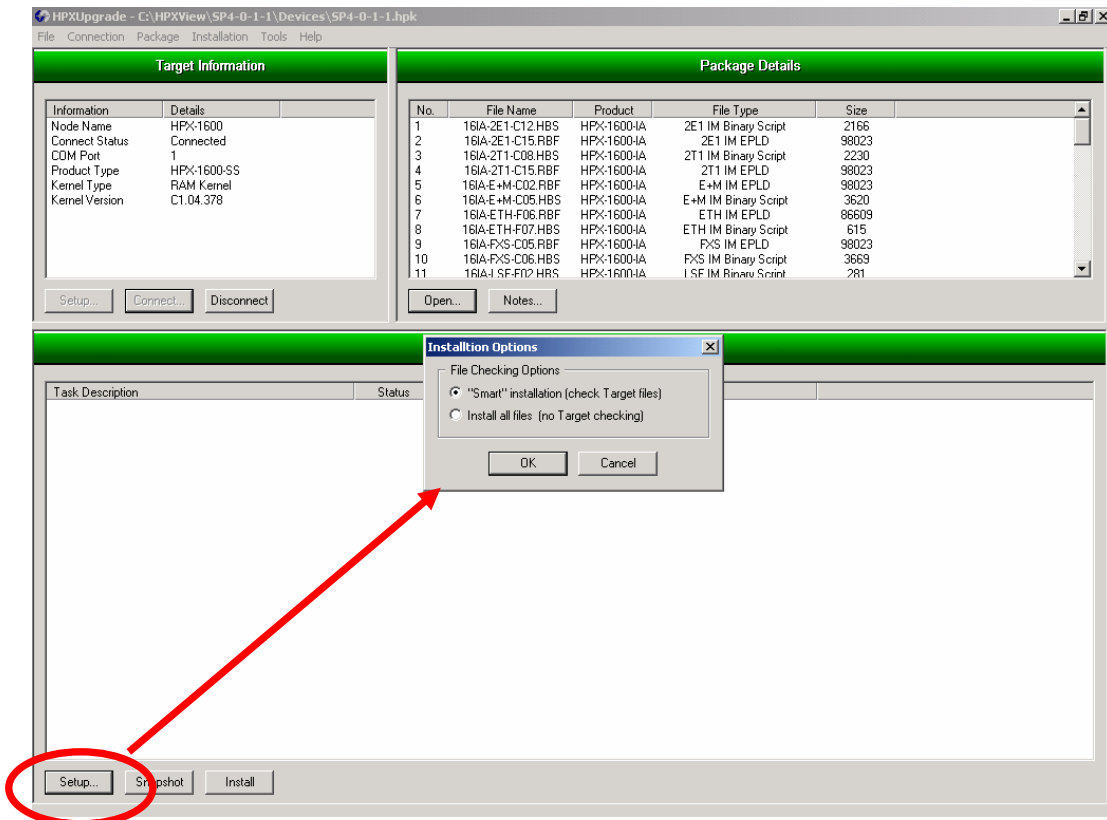


Figure 5 : Installation Options

Once the user has selected to install the upgrade, a confirmation window will appear, by selecting 'yes' the node will be upgraded immediately. Selecting 'no' allows the files to be stored on all nodes in a network without disruption, over a period of time the user can reboot the nodes in a schedule maintenance window.

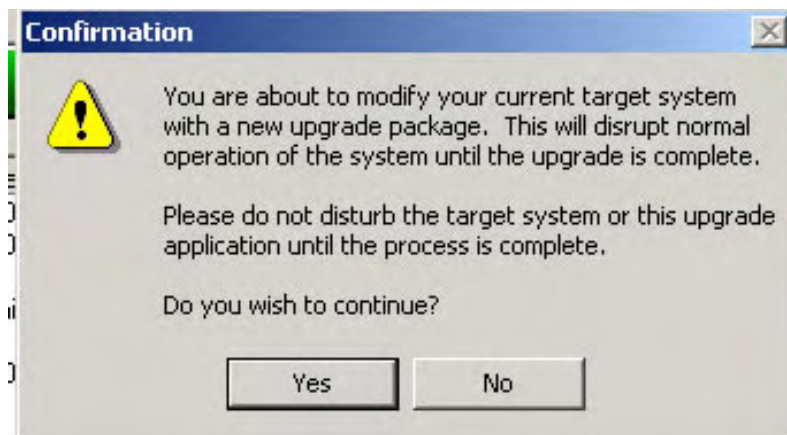


Figure 6 : Confirmation of Upgrade

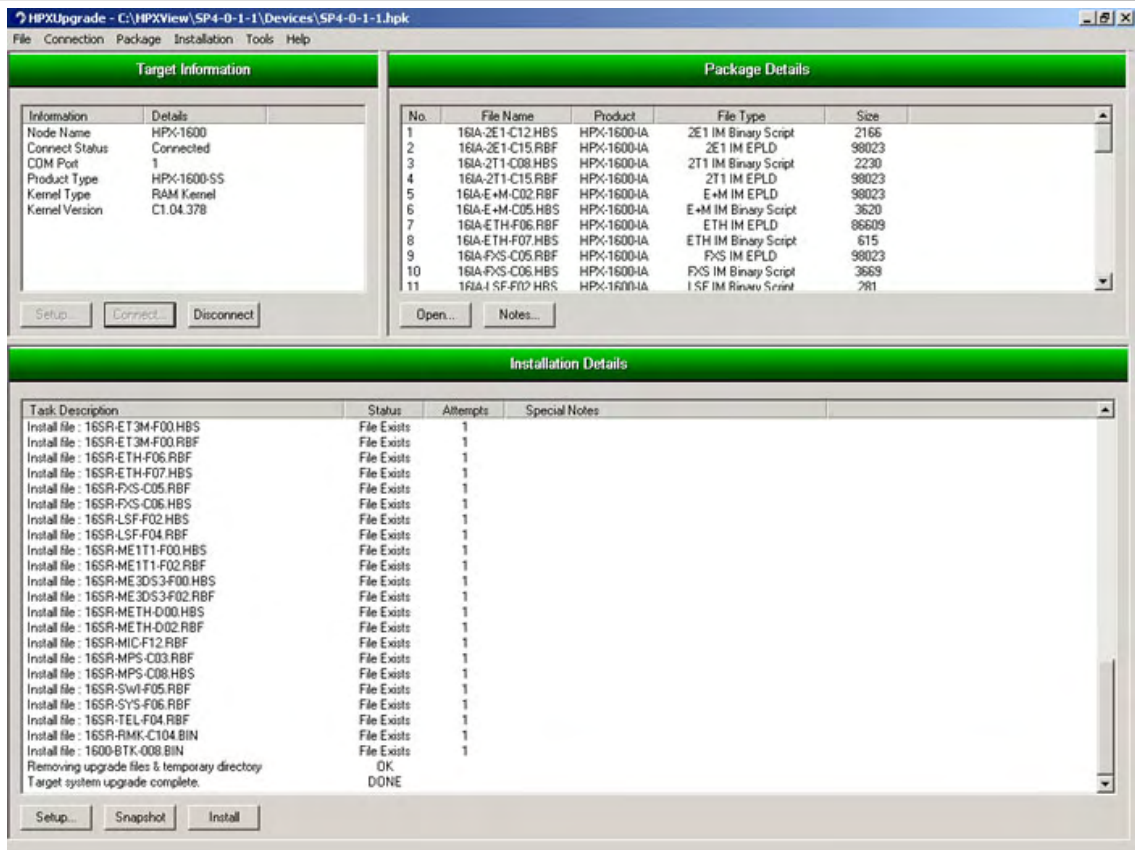


Figure 7 : Upgrade Installation

The upgrade package files contains the upgrade files for all the product range, when the status is “Incompatible” the node that is being upgraded does not require the file. Status “File Exists”, the file does exist for that node and is current. Once the upgrade is complete the “Target system upgrade complete” is set to “DONE”. Status "OK" is when a file has been added.

The snapshot option will allow the user to view the loaded files in a node at any time, refer to figure 8.

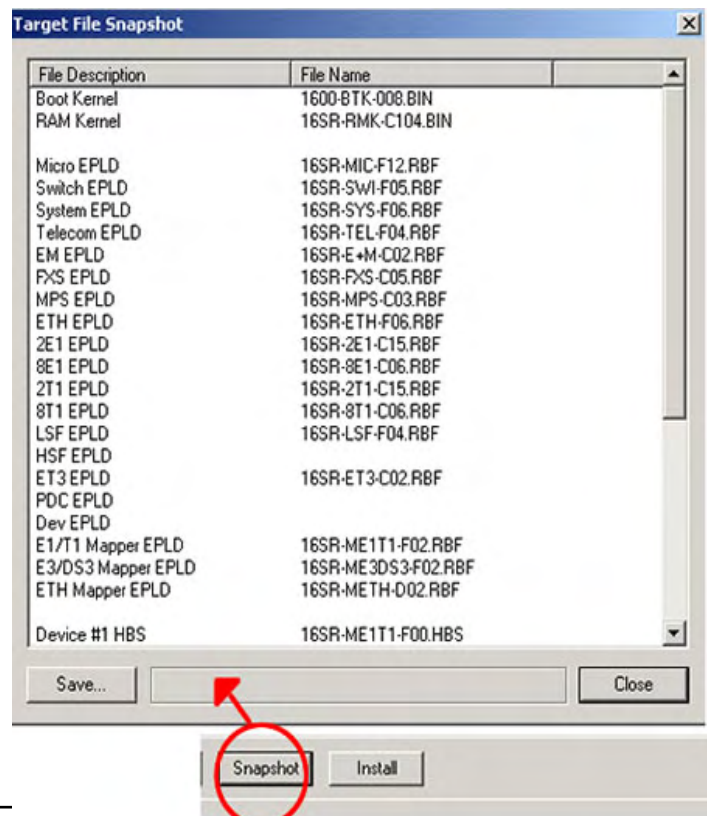


Figure 8 : Target File Snapshot