

## SysMan on iPAQ

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### Accessing SysMan Menu from an iPAQ Pocket PC

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**Operating System and Version:** Tru64 UNIX, Version 5.1 and higher

This document describes the installation procedure and the instructions for accessing the SysMan Menu from a HP iPAQ Pocket PC.

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## Installing the Software

You can perform system administration tasks remotely on a system running Tru64 UNIX by using your iPAQ Pocket PC hand-held computer, after you download and install the SysMan iPAQ software.

### 1.1 Minimal Requirements

The following section states the minimal requirements for both the installation and use of the software to access the SysMan Menu from the iPAQ Pocket PC hand-held computer. These requirements are divided into these categories:

- Tru64 UNIX requirements
- Personal computer requirements
- iPAQ Pocket PC requirements

The majority of these requirements are easily fulfilled.

#### 1.1.1 Tru64 UNIX Minimum Requirements

- Tru64 UNIX Version 5.1 or higher

For TruCluster systems, all cluster nodes must be running the same version of the operating system, Version 5.1 or higher.

To verify the version of the Tru64 UNIX operating system on a single system, enter the following command:

```
# /usr/sbin/sizer -v
HP Tru64 UNIX V5.1A (Rev. 1885)
```

To verify the version of the Tru64 UNIX operating system on each node of a TruCluster system, enter the following command:

```
# clu_get_info -full | grep "Member cluster version"
```

The following is output for each node of the TruCluster system:

```
Member cluster version = HP TruCluster server V5.1A (Rev. 1312)
```

- Wireless Network support

## 1.1.2 Personal Computer Minimum Requirements

The primary use of the PC is to download files to the iPAQ Pocket PC using Microsoft® ActiveSync software; the following are required to do so:

- Microsoft Windows® 2000, 98, Windows NT® Workstation 4.0 or XP with a 486/33DX or higher processor (Pentium® 90 MHz recommended)<sup>1</sup>
- Hard disk drive with 10 to 50MB of available hard disk space (actual requirements will vary based on selection of features and user's system configuration)
- Communications port (9 pin or 25 pin, adapter required for 25 pin communication port) or USB interface.
- CD-ROM drive
- VGA or higher resolution graphics card
- Mouse or compatible pointing device
- Internet Connection (if downloading software to the PC)
- Microsoft ActiveSync Software, version 3.5 or higher.

This software is available from the iPAQ CD-ROM and from the Microsoft Corporate Web Site, <http://www.microsoft.com>.

## 1.1.3 iPAQ Pocket PC Minimum Requirements

The following requirements are necessary for the installation and use of the SysMan iPAQ software.

- 32MB of RAM, with 256KB free for Storage and 256KB free for Programs.  
You can verify the available capacity by tapping Start, then Settings, then System, then Memory.
- 206MHz processor
- Microsoft® Pocket PC Software (Microsoft Windows CE 3.0 or greater)  
Verify the iPAQ Pocket PC's operating system version by tapping Settings in the Start Menu, then System, then About.
- Either the Serial connections and cable<sup>2</sup> or the Docking Cradle with cable.
- Wireless card
- Java 2 Run Time Environment

<sup>1</sup> required for Microsoft ActiveSync.

<sup>2</sup> USB interface can be used instead of serial connection.

This software may not be installed on your iPAQ Pocket PC; it is available from the Pocket PC companion CD, which accompanies the iPAQ 3800 series and 3900 series.

## 1.2 Transferring SysMan iPAQ software

The software that enables the iPAQ Pocket PC to access the Tru64 UNIX SysMan Menu is available over the Internet at the following URL:  
<http://www.tru64unix.compaq.com/ipaq>

There are other useful files, including this document in PDF format, at this site also.

The software consists of the following components:

<code>sysmanipaq.cab</code>	This cab file contains the client software that you install on the iPAQ Pocket PC. The remainder of this section describes the various ways you can download this software to the iPAQ Pocket PC. Section 1.3 describes how to install the software on the iPAQ Pocket PC.
<code>smauth.jar</code>	This is a Java archive file containing the Authentication Server. This file is installed on a Tru64 UNIX V5.1A system or on only one node of a TruCluster system (it is a shared file). Transferring and installing this file is discussed in Section 1.4.
<code>smauth.jar_v51</code>	This is a Java archive file containing the Authentication Server for Tru64 UNIX. This file is installed on a Tru64 UNIX V5.1 system or on only one node of a TruCluster system (it is a shared file). Transferring and installing this file is discussed in Section 1.4.

These files can be downloaded individually or in an archive. Two types of archive files, `tar` and `zip`, are available. You must extract the files from the archive after downloading them.

While the `smauth.jar` is downloaded directly to the Tru64 UNIX system, there are two methods for downloading the `sysmanipaq.cab` file onto the iPAQ Pocket PC, as shown here:

From the web site	to the Tru64 UNIX system	to the PC	to the iPAQPocket PC
From the web site		to the PC	to the iPAQPocket PC

These methods are described in the following sections.

### 1.2.1 Downloading by way of the Tru64 UNIX System

Transfer the `sysmanipaq.cab` file from the web site to the Tru64 UNIX system, then to the PC, then to the iPAQ Pocket PC as follows:

1. Use a browser to download the `sysmanipaq.cab` file from the web site (<http://www.tru64unix.compaq.com/ipaq>) to a temporary directory on the Tru64 UNIX system. If you download an archive file, you need to extract the `sysmanipaq.cab` file.
2. Ensure that the Tru64 UNIX system and PC are able to communicate.
3. Use the Tru64 UNIX `ftp` or the PC's `WS_FTP32` (FTP-32 Client for Windows) to transfer the `sysmanipaq.cab` file to `My Documents` folder on the PC.
4. Ensure that the PC and the iPAQ Pocket PC are properly connected using the serial or USB cable.
5. Invoke the Microsoft ActiveSync Software from the PC.
6. Select the `Explore` button.

A window displaying the contents of the iPAQ Pocket PC appears.

7. Drag the `sysmanipaq.cab` icon from the `My Documents` folder and drop it in the `My Documents` folder in the ActiveSync window. Alternatively, you can use the `Cut` and `Paste` commands.

This step transfers the SysMan iPAQ software to the iPAQ Pocket PC.

8. Verify the success of the transfer by using the iPAQ Pocket PC's File Explorer to locate the `sysmanipaq.cab` file in the `My Documents` folder. You can access the File Explorer by tapping `Start`, then `Programs`, then `File Explorer`.

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#### Note

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Repeat the transfer if you do not see the `sysmanipaq.cab` in the `My Documents` folder.

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Proceed to Section 1.3 to install this software on the iPAQ Pocket PC.



## 1.2.2 Downloading by way of the PC

Transfer the `sysmanipaq.cab` from the web site to the PC, then to the iPAQ Pocket PC:

1. Use a browser to download the `sysmanipaq.cab` file from the web site (<http://www.tru64unix.compaq.com/ipaq>) to the My Documents folder of the PC. If you download an archive file, you need to extract the `sysmanipaq.cab` file.
2. Ensure that the PC and the iPAQ Pocket PC are properly connected using the serial or USB cable.
3. Invoke the Microsoft ActiveSync Software from the PC.
4. Select the `Explore` button.

A window displaying the contents of the iPAQ Pocket PC appears.

5. Drag the `sysmanipaq.cab` icon from the PC's My Documents folder and drop it in the My Documents folder in the ActiveSync window. Alternatively, you can use the Cut and Paste commands.

This step transfers the SysMan iPAQ software to the iPAQ Pocket PC.

6. Verify the success of the transfer by using the iPAQ Pocket PC's File Explorer to locate the `sysmanipaq.cab` file in the My Documents folder. You can access the File Explorer by tapping `Start`, then `Programs`, then `File Explorer`.

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### Note

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Repeat the transfer if you do not see the `sysmanipaq.cab` in the My Documents folder.

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Proceed to Section 1.3 to install this software on the iPAQ Pocket PC.

## 1.3 Installing the `sysmanipaq.cab` File

Locate the SysMan iPAQ software in the iPAQ Pocket PC's My Documents folder.

Simply tap the `SysMan` file and the software installs itself.

Verify the installation by tapping `Start`. The command `SysMan` will be in the `Start` menu.

## 1.4 Upgrading the Authentication Server

You may need to upgrade the Authentication Server on a Tru64 UNIX system before you can access the SysMan Menu from the iPAQ Pocket PC.

### 1.4.1 Upgrade Determination

There is an instance when you should not upgrade the authentication server. If you have not installed patches to your Tru64 UNIX V5.1A system, you can use the procedure in Section 1.4.2 to upgrade the Authentication Server. If patches have been installed, or you are not sure, use the following procedure to determine whether this applies to your system.

1. Invoke the `dupatch` utility, which is delivered with each patch kit.  
The Main Menu is displayed.
2. Select item 4, "Patch Tracking" from the Main Menu.  
The Patch Tracking Menu is displayed.
3. Select item 2, "List installed patches" from the Patch Tracking Menu.  
The Patch Tracking Selection Menu is displayed.
4. Select item 3, "List All Files" from the Patch Tracking Selection Menu.
5. Look for `/usr/share/sysman/web/classLib/smauth.jar` in the list of displayed files.  
If this file is listed, do not upgrade the Authentication Server.  
If this file is not listed, proceed to Section 1.4.2 to upgrade the Authentication Server.

### 1.4.2 Upgrade Procedure

Use the following procedure to upgrade the authentication server:

1. Log in as root on the Tru64 UNIX system.
2. Change directory and back up the current Authentication Server.  

```
# cd /usr/share/sysman/web/classLib
# cp smaauth.jar smaauth.jar.orig
```
3. The next step differs depending on the version of Tru64 UNIX you are running.

If you are running Tru64 UNIX V5.1A :

Use a browser to download the Authentication Server from the following web site: <http://www.tru64unix.compaq.com/ipaq>. If you have transferred this file as part of an archive, extract the `smauth.jar` file from the archive and move it to the Tru64 UNIX system.

If you are running Tru64 UNIX V5.1:

- a. Use a browser to download the Authentication Server from the following web site: <http://www.tru64unix.com-paq.com/ipaq>. If you have transferred this file as part of an archive, extract the `smauth.jar_v51` file from the archive and move it to the Tru64 UNIX system.

- b. Rename the `smauth.jar_v51` file to `smauth.jar` file

```
# mv smauth.jar_v51 smauth.jar
```

For the remainder of this example, we assume that the home directory is used and designate it with the `$HOME` environment variable.

4. Stop the current Authentication Server.

```
# /sbin/init.d/smauth stop
```

The Authentication Server must be stopped on each node of a TruCluster system.

5. Copy the new Authentication Server into this directory. The new Authentication is located in your home directory after the download.

```
# cp $HOME/smauth.jar .
```

6. Change the permissions, the group, and ownership of this file as follows.

```
# chmod 644 smauth.jar
# chgrp bin smauth.jar
# chown bin smauth.jar
```

7. Start the current Authentication Server.

```
# /sbin/init.d/smauth start
```

The Authentication Server must be started on each node of a TruCluster system.

8. Verify that the daemon started as follows.

```
# ps aux | grep "AuthenticationServer"
```

This command must be run on each node of a TruCluster system.



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## Accessing the SysMan Menu

Accessing the SysMan Menu for a given host requires that you:

- Start the SysMan application by tapping *Start* then *SysMan Menu* on the iPAQ Pocket PC; this action opens the Host List.
- Initially add a host to the list by specifying its IP address or host name.
- Select a host by tapping its entry in the Host List.
- Log in to that host and enter a password in the Authentication window.

The SysMan Menu for the remote host opens.

### 2.1 Host List

The Host list provides a list of hosts and clusters that you can access. You will be able to perform system administration tasks by invoking the SysMan Menu on that host.

Initially, the list of hosts is empty. See Section 2.1.2 for information on adding a host to the Host List. After a host has been added to the list of hosts, you can access it by tapping the host name, which opens the Authentication Window.

#### 2.1.1 Connecting to the Remote Host

To start the SysMan Menu application, tap *Start* then *SysMan Menu* on the iPAQ Pocket PC.

#### 2.1.2 Adding Hosts

Initially, you will need to enter the name or Internet Protocol address (IP address) of the cluster or host system (the one on which you will invoke SysMan Menu) to a list of hosts that is stored on the iPAQ Pocket PC.

1. From the Host List, tap the *Add Hosts* button.
2. Enter the name or IP address of the host. Select either *OK*, which adds the host to the Host List and returns you to the main window, or *Apply*, which adds the host to the Host List and allows you to continue adding additional hosts.

The host is now listed.

3. Continue this procedure for any other hosts you want to be listed.

You can now access that host by selecting it from the list.

### 2.1.3 Modifying Hosts

Follow this procedure should you need to change the hostname or IP address of a host in the Host List stored on the iPAQ Pocket PC.

1. Tap the specific host in the Host List.
2. Tap the `Modify` button.  
The `Modify` dialog box opens.
3. Correct the name or IP address of the host. Select `OK`.  
The Host List is updated.
4. Continue this procedure for any other hosts you need to modify.

You can now access that host by selecting it from the list.

### 2.1.4 Deleting Hosts

You may need to delete a host from the Host List stored on the iPAQ Pocket PC. Follow this procedure to do so.

1. Select the specific host by tapping on it in the Host List.
2. Tap the `Delete` button.  
After you confirm the removal of the host in a confirmation dialog box, the host is removed from the Host List.
3. Continue this procedure for any other hosts you need to delete.

## 2.2 Invoking SysMan Menu Applications

After you've accessed the SysMan Menu on the selected host, expand its branches to find the task you want to accomplish. Tap the menu line that describes that task to launch the appropriate utility.

Online help for the application is available from the application window by selecting the `Help` button. Online help for the SysMan Menu is obtained by selecting its `Help` button without any application selected. Online help uses Microsoft's Pocket Internet Explorer to display the necessary text.

## 2.3 Exiting the SysMan Menu

Tap the `Exit` button on the application window to exit the application and return to the SysMan Menu.

Tap the `Exit` button on the SysMan Menu to exit it and return to the Host List.

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