The Open Group
COE Platform Certification Program
Chapter 6
Remote Installation
Validation Procedure

Posix-Based Platform Compliance (PPC)

COE Kernel revision level 4.5p6

June 02, 2003

Revision 1.0

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1. Overview

1.1 Introduction

This chapter defines the Remote Installation Manual Validation Procedure and is part of the required set of test procedures to be used in the certification of products to the Open Brand COE Platform Product Standard[1].

2. Test Procedure

2.1 Scope

The Remote Installation Validation Procedure is a *manual* test that provides a detailed test of the remote installation capability of the kernel. The test is run in two directions. First the kernel is installed interactively on the Candidate Platform, a remote installation package is created on the Candidate Platform and transferred to the Validation Host. Then the installation package is remotely executed on the Validation Host to install the kernel. In the second part of the test, the kernel is interactively installed on the Validation Host and remotely installed on the Candidate Platform. Note that this this test provides its own setup apart from that described in the current version of the *COE Setup Procedures for Kernel Platform Compliance (KPC) Validation Cell for Kernel V4.2.0.0P6 (Solaris 8)* document. This test references Kernel Version 4.2.0.5, but it is anticipated that the vendor will supply a Kernel Version 4.2.0.0P6. Either Kernel Version will satisfy this test procedure.

Description of test items that will be tested using the Remote Installation Validation Procedure is as follows:

A. Install a clean OS on each machine, per the Setup Procedures for KPC Validation Cell for Kernel 4200P6 and perform necessary setup steps prior to kernel installation.

B. Install the kernel on the APM master.

C. Export the APM master's public key and create the installation package.

D. Distribute the installation package.

E. Install the kernel on the client.

F. Perform an automatic merge host.

G. Add new users to each host.

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[1] See http://www.opengroup.org/openbrand/coe/

H. Run COESegInstall on the client.

Z. Log out of the Validation Host (kpchost) and the Candidate Platform (kpccp)

2.2 Test Data/Media Required

The following segments are required to execute this test:

OnlineDocs Segment Version 4.2.0.0.

2.3 Setup/Equipment Required

This test requires a Validation Host and Candidate Platform setup according to the following configurations. In particular, this test provides its own setup apart from that described in the current version of the *Template Setup Procedures for a COE Validation Cell* .

Configuration 1:

APM Master (Candidate Platform) and APM Client (Validation Host)

Configuration 2:

APM Master (Validation Host) and APM Client (Candidate Platform)

2.4 Test Data/Media Required

COE Kernel and Toolkit Source Code, Test Data, and Documentation for Version 4200P6 Version 1.0.0.

2.5 Required Personnel

A single (1) tester will be required. The tester must be familiar with POSIX/UNIX application platforms, but need not be familiar with the Common Operating Environment (COE).

2.6 Change History

June 02, 2003

Initial Release

3. Test Procedure Submission Form

Test Title: Remote Installation Validation Procedure

Candidate Platform: _____   Date: _____

Tester: _____   Estimated Runtime: 5 hours _____

Start Time: _____   End Time: _____   Actual Runtime: _____

Test Site/Organization: _____   Overall Test Result (Circle One): PASS / FAIL

Configuration Validated

Hardware Platform: _____   System Software: _____

Network Type: _____   Printer: _____

Local Devices (if any): _____

Start of Validation Procedure

4. Test Procedure

	Operator Action	Expected Result	Observed Result
A	4.1 Configuration 1 Setup		
A.1	**OS Setup Of Configuration 1 (Candidate Platform and Validation Host)**		
A.1.1	Install the OS on both machines, per the `Setup Procedures for` *Template Setup Procedures for a COE Validation Cell*	The OS is installed on both machines, per the `Setup Procedures for KPC Validation Cell for Kernel 42P6 (Solaris 8)`.	Setup
A.2	**Edit the /etc/host Files (Candidate Platform and Validation Host)**		
A.2.1	On the Candidate Platform and Validation Host, in the `Terminal` window, type: `cd /etc`	The command prompt returns.	Setup
A.2.2	Type: `vi hosts`	The `hosts` file is ready for editing.	Setup
A.2.3	Use the arrow keys to move the cursor to the last line of text	The cursor is position on the last line of text.	Setup
A.2.4	Type: `o`	A new line is opened in insert mode.	Setup

	Operator Action	Expected Result	Observed Result

A.2.5	On the Validation Host type:
	
	    `204.34.175.194  kpchost`
	
	On the Candidate Platform type:
	
	    `204.34.175.195  kpccp`
		The alternate system's name and IP addressed are entered into each host's `/etc/host` file.	Setup

A.2.6	Press `[Esc]`.	The `hosts` file is closed for editing.	Setup
A.2.7	Type: `:wq!`	The `hosts` file is saved and exited.	Setup
A.3	**Verify That The Times On Each System To Be Merged Are Within 20 Minutes Of Each Other** **NOTE: This is important. APM authentication functions will fail if the clocks are out of synchronization by more than 20 minutes.**		
A.3.1	On each machine, log in as `root`.	The desktop appears.	Setup
A.3.2	Open a `Terminal` window.	A `Terminal` window appears.	Setup
A.3.3	Type: `date -u`	The date and time are displayed.	Setup

	Operator Action	Expected Result	Observed Result
A.3.4	Verify that the times of both systems are within 20 minutes of each other. If not, on the Candidate Platform, in a `Terminal` window type: `rdate kpchost` **NOTE:** This command may be operating system specific. A similar command or sequence of commands should be used to synchronize the times on both systems.	The times of both systems are identical.	Setup
A.4	**Enable FTP and Remote Login (Validation Host)**		
A.4.1	On the Validation Host, in the `Terminal` window, type: `vi /etc/default/login`	The file `login` is open and ready for editing.	Setup
A.4.2	Use the arrow keys to move the cursor to the beginning of the line that starts with `CONSOLE`.	The cursor is a the beginning of the correct line.	Setup
A.4.3	Type: `i#`	The # character is inserted at the beginning of the line.	Setup
A.4.4	Press [Esc].	The file `login` is closed for editing.	Setup
A.4.5	Type: `:w!`	The file `login` is saved.	Setup

	Operator Action	**Expected Result**	**Observed Result**
A.4.6	Type: `:e /etc/ftpusers`	The file `ftpusers` is open and ready for editing.	Setup
A.4.7	Use the arrow keys to move the cursor to the beginning of the line that starts with `root`.	The cursor is a the beginning of the correct line.	Setup
A.4.8	Type: `i#`	The # character is inserted at the beginning of the line.	Setup
A.4.9	Press `[Esc]`.	The file `ftpusers` is closed for editing.	Setup
A.4.10	Type: `:wq!`	The file `ftpusers` is saved and exited.	Setup
B	4.2 Install The Kernel On The APM Master		
B.1	**Install The Kernel On The APM Master (Candidate Platform)**		
B.1.1	On the Candidate Platform, type: `mkdir /pkg /packages`	The command prompt returns.	Setup
B.1.2	Insert the `4.2.0.0P6 Kernel and Toolkit Source Code CD-ROM` into the CD-ROM drive.	The media is loaded onto the system.	Setup
B.1.3	At the command prompt, type: `cd /pkg`	The command prompt returns.	Setup

	Operator Action	Expected Result	Observed Result

B.1.4	At the command prompt, type:
	
	`cp -pr`
	
	`/cdrom/kpc_4206/seg/4205kern_sol.tar.Z /pkg`
		The command prompt returns.	Setup

B.1.5	At the command prompt type: `uncompress 4205kern_sol.tar.Z`	The command prompt returns.	Setup
B.1.6	At the command prompt, type: `tar xf 4205kern_sol.tar`	The command prompt returns.	Setup
B.1.7	At the command prompt, type: `rm 4205kern_sol.tar`	The command prompt returns.	Setup
B.1.8	Install the kernel by typing: `./inst.dii`	The kernel begins to install and prompts the tester for input.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
C	4.3 Export the APM master's public key and create the installation package.		
C.1	**Export the APM Master's Public Key (Candidate Platform)**		
C.1.1	On the Candidate Platform, log in as `secman`.	The desktop appears.	Circle one: PASS / FAIL
C.1.2	Select `Applications > Application Manager > DII_APPS > SecAdm`	The `Application Manager – SecAdm` window appears.	Circle one: PASS / FAIL
C.1.3	Double-click `APM Key Server` to launch the `Key Server`.	The `Key Server` window appears.	Circle one: PASS / FAIL
C.1.4	Enter the Master APM Authentication key.	Asterisks appear in the textbox.	Circle one: PASS / FAIL
C.1.5	Click `Start`.	An `Information` window appears stating the `Key Server` started successfully.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
C.1.6	Click `OK`.	The `Information` and `Key Server` windows close.	Circle one: PASS / FAIL
C.1.7	On the Candidate Platform, log in as `keyman`.	The desktop appears.	Circle one: PASS / FAIL
C.1.8	Select `Applications > Application Manager > DII_APPS > APM > Public Key Manager`	The `Public Key Manager` window appears.	Circle one: PASS / FAIL
C.1.9	Click `Export`.	The `Save Public Key File` window appears.	Circle one: PASS / FAIL
C.1.10	In the `Enter path or folder name:` textbox, type: `/h/COE/Comp/APM/data`	`/h/COE/Comp/APM/data` appears in the `Enter path or folder name:` textbox.	Circle one: PASS / FAIL
C.1.11	In the `Enter file name:` textbox, type `keyfile.txt`.	`keyfile.txt` appears in the `Enter file name:` textbox.	Circle one: PASS / FAIL
C.1.12	Click `Save`.	A confirmation appears with the file location listed.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
C.1.13	Click OK.	Control returns to the `Public Key Manager` window.	Circle one: PASS / FAIL
C.1.14	Click `Cancel`.	The `Public Key Manager` window disappears.	Circle one: PASS / FAIL
C.2	**Create The Kernel Installation Package (Candidate Platform)**		
C.2.1	On the Candidate Platform, open a `Terminal` window.	A `Terminal` window appears.	Circle one: PASS / FAIL
C.2.2	Type: `su -`	A password prompt appears.	Circle one: PASS / FAIL
C.2.3	Type the `root` password.	The command prompt returns.	Circle one: PASS / FAIL
C.2.4	Type: `csh`	The command prompt returns.	Circle one: PASS / FAIL
C.2.5	Type: `cp /h/COE/Comp/APM/data/keyfile.txt /pkg`	The command prompt returns.	Circle one: PASS / FAIL
C.2.6	Type: `cd /pkg`	The command prompt returns.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result

C.2.7	Type:
	
	`./MakePackage -o`
	`/packages/kernel.pkg`
	`-p /pkg -c "inst.dii -silent -`
	`keyfile keyfile.txt"`
		The `kernel.pkg` file is created in the `/packages` directory.	Circle one: PASS / FAIL

D	**4.4 Distribute the installation package.** **NOTE: This procedure uses ftp to distribute the installation package. Other distribution mechanisms may be used.**		
D.1	**FTP Package To Clients (Candidate Platform)**		
D.1.1	On the Candidate Platform, type: `cd /packages`	The command prompt returns.	Setup
D.1.2	Type: `ftp kpchost`	A `Name` prompt returns.	Setup
D.1.3	Type: `root`	A password prompt appears.	Setup
D.1.4	Type the `root` password.	An `ftp>` prompt appears.	Setup
D.1.5	Type: `cd /tmp`	The command prompt returns.	Setup

	Operator Action	**Expected Result**	**Observed Result**
D.1.6	Type: `bin`	The command prompt returns.	Setup
D.1.7	Type: `put kernel.pkg`	The command prompt returns.	Setup
D.1.8	Type: `bye`	The # command prompt returns.	Setup
E	4.5 Install the kernel on the client.		
E.1	**Remotely Install Kernel (Candidate Platform)**		
E.1.1	On the Candidate Platform, type: `rlogin kpchost -l root`	A password prompt appears.	Setup
E.1.2	Type the `root` password.	The command prompt returns.	Setup
E.1.3	Type: `cd /tmp`	The command prompt returns.	Setup
E.1.4	Type: `chmod +x kernel.pkg`	The command prompt returns.	Setup
E.1.5	Type: `./kernel.pkg`	The kernel installs on the Validation Host. Wait for the kernel installation process to complete prior to advancing to the next step.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
F	4.6 Perform an automatic merge host.		
F.1	**Distribute Keys (Candidate Platform)**		
F.1.1	On the Candidate Platform, open a new `Terminal` window.	A new `Terminal` window appears.	Setup
F.1.2	Type: `vi /h/COE/Comp/APM/data/HostList`	A file named `HostList` is created and opened for editing.	Setup
F.1.3	Type: `i`	The editor is in insert mode.	Setup
F.1.4	Type: `kpchost`	`kpchost` appears in the `HostList` file.	Setup
F.1.5	Press [`Esc`].	The file `HostList` is closed for editing.	Setup
F.1.6	Type: `:wq!`	The file `HostList` is exited.	Setup
F.1.7	Select `Applications Application Manager > DII_APPS > APM > Authentication Manager`.	The `Authentication Manager` window appears.	Circle one: PASS / FAIL
F.1.8	Enter the Master APM authentication key.	Asterisks appear in the textbox.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
F.1.9	Click `Set Client's Local Key`.	The `Hosts List` window appears.	Circle one: PASS / FAIL
F.1.10	Click `Import Host List`.	The `Open Host List File` window appears.	Circle one: PASS / FAIL
F.1.11	Verify that the path name is `/h/COE/Comp/APM/data` and select the `HostList` file.	The `HostList` file is highlighted.	Circle one: PASS / FAIL
F.1.12	Click `OK`.	An `Information` window appears.	Circle one: PASS / FAIL
F.1.13	Click `OK`.	The `Information` window closes and `kpchost` is listed.	Circle one: PASS / FAIL
F.1.14	Click `Select Hosts Without Keys`.	`kpchost` is highlighted.	Circle one: PASS / FAIL
F.1.15	Click `Generate Keys`.	An `Information` dialog box appears stating: `Key generation complete`.	Circle one: PASS / FAIL
F.1.16	Click `OK`.	The dialog box disappears.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
F.1.17	Click `Distribute Keys`.	An `Information` dialog box appears stating: `Key distribution complete.`	Circle one: PASS / FAIL
F.1.18	Click `OK`.	The dialog box disappears.	Circle one: PASS / FAIL
F.1.19	Close the `Hosts List` and `Authentication Manager` windows.	The windows close.	Circle one: PASS / FAIL
F.2	**Automated Merge (Candidate Platform)**		
F.2.1	On the Candidate Platform, log in as `secman`.	The `DII COE LOGIN` screen appears.	Circle one: PASS / FAIL
F.2.2	Select `Applications > Application Manager > DII_APPS > SecAdm > Merge Host`.	The `MergeHost Tool` window appears.	Circle one: PASS / FAIL
F.2.3	Click `Merge a List of New Hosts`.	The `Select Hosts to Merge` window appears with `kpchost` listed.	Circle one: PASS / FAIL
F.2.4	Click `Highlight All Available`.	`kpchost` in the `Available` pane is highlighted.	Circle one: PASS / FAIL
F.2.5	Click the right arrow button.	`kpchost` moves to the `Selected` pane.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
F.2.6	Click `OK`.	An `Input` dialog box appears requesting the master APM authentication key.	Circle one: PASS / FAIL
F.2.7	Enter the master APM authentication key.	Asterisks appear in the textbox.	Circle one: PASS / FAIL
F.2.8	Click `OK`.	The merge host process completes with no user interaction. Wait for the merge host process to complete before advancing to the next step. A `Done` dialog box appears.	Circle one: PASS / FAIL
F.2.9	Click `OK`.	The `Done` dialog box disappears.	Circle one: PASS / FAIL
F.2.10	Click `Cancel` twice to close the `Select Hosts to Merge` and `MergeHost Tool` windows.	The windows close.	Circle one: PASS / FAIL
G	4.7 Add new users to each host.		
G.1	**Create Users (Candidate Platform)**		
G.1.1	On the Candidate Platform, log in as `secman`.	The desktop appears.	Setup
G.1.2	Select `Applications > Application Manager > DII_APPS > SecAdm > APM Client`	An `Input` window appears.	Setup

	Operator Action	Expected Result	Observed Result
G.1.3	Enter the APM Master authentication key.	Asterisks appear in the textbox.	Setup
G.1.4	Click `OK`.	The `Account and Profile Manager` window appears.	Setup
G.1.5	Select `File > New Account`.	The `Create Account` window appears.	Setup
G.1.6	Create a new User with the following parameters: Login: – `UnixTest` `Password: - <Password>` Default Group – `other` Hosts – select both hosts	The User `UnixTest` parameters are entered.	Circle one: PASS / FAIL
G.1.7	Click `Submit`.	The `Status Summary` window appears showing the new account successfully added to both hosts.	Circle one: PASS / FAIL
G.1.8	Click `OK`.	The `Status Summary` window disappears.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
G.2	**Log in To Client Machine (Validation Host)**		
G.2.1	Log in to the Validation Host as `UnixTest`.	Login is allowed.	Circle one: PASS / FAIL
H	4.8 Configuration 2 Setup		
H.1	**OS Setup Of Configuration 2 (Validation Host and Candidate Platform)**		
H.1.1	Install the OS on both machines, per the `Setup Procedures for KPC Validation Cell for Kernel 4206 (Solaris 8)`.	The OS is installed on both machines, per the `Setup Procedures for KPC Validation Cell for Kernel 4206 (Solaris 8)`.	Setup
H.2	**Edit the /etc/host Files (Candidate Platform and Validation Host)**		
H.2.1	On the Candidate Platform and Validation Host, in the `Terminal` window, type: `cd /etc`	The command prompt returns.	Setup
H.2.2	Type: `vi hosts`	The `hosts` file is ready for editing.	Setup
H.2.3	Use the arrow keys to move the cursor to the last line of text.	The cursor is position on the last line of text.	Setup
H.2.4	Type: `o`	A new line is opened in insert mode.	Setup

	Operator Action	**Expected Result**	**Observed Result**

H.2.5	On the Validation Host type:
	
	`204.34.175.194  kpchost`
	
	On the Candidate Platform type:
	
	`204.34.175.195  kpccp`
		The alternate system's name and IP addressed are entered into each host's `/etc/host` file.	Setup

H.2.6	Press [Esc].	The `hosts` file is closed for editing.	Setup
H.2.7	Type: `:wq!`	The `hosts` file is saved and exited.	Setup
H.3	**Verify That The Times On Each System To Be Merged Are Within 20 Minutes Of Each Other** **NOTE: This is important. APM authentication functions will fail if the clocks are out of synchronization by more than 20 minutes.**		
H.3.1	On each machine, log in as `root`.	The desktop appears.	Setup
H.3.2	Open a `Terminal` window.	A `Terminal` window appears.	Setup
H.3.3	Type: `date -u`	The date and time are displayed.	Setup

	Operator Action	Expected Result	Observed Result
H.3.4	Verify that the times of both systems are within 20 minutes of each other. If not, on the Validation Host, in a `Terminal` window type: `rdate kpccp` **NOTE:** This command may be operating system specific. A similar command or sequence of commands should be used to synchronize the times on both systems.	The times of both systems are identical.	Setup
H.4	**Enable FTP and Remote Login (Candidate Platform)**		
H.4.1	On the Candidate Platform, in the `Terminal` window, type: `vi /etc/default/login`	The file `login` is open and ready for editing.	Setup
H.4.2	Use the arrow keys to move the cursor to the beginning of the line that starts with `CONSOLE`.	The cursor is a the beginning of the correct line.	Setup
H.4.3	Type: `i#`	The # character is inserted at the beginning of the line.	Setup
H.4.4	Press `[Esc]`.	The file `login` is closed for editing.	Setup
H.4.5	Type: `:w!`	The file `login` is saved.	Setup

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	Operator Action	Expected Result	Observed Result
H.4.6	Type: `:e /etc/ftpusers`	The file `ftpusers` is open and ready for editing.	Setup
H.4.7	Use the arrow keys to move the cursor to the beginning of the line that starts with `root`.	The cursor is a the beginning of the correct line.	Setup
H.4.8	Type: `i#`	The # character is inserted at the beginning of the line.	Setup
H.4.9	Press `[Esc]`.	The file `ftpusers` is closed for editing.	Setup
H.4.10	Type: `:wq!`	The file `ftpusers` is exited.	Setup
I	**4.9** Install The Kernel On The APM Master		
I.1	**Install The Kernel On The APM Master (Validation Host)**		
I.1.1	On the Validation Host, type: `mkdir /pkg /packages`	The command prompt returns.	Setup
I.1.2	Insert the `4.2.0.0P6 Kernel and Toolkit Source Code` CD-ROM into the CD-ROM drive.	The media is loaded onto the system.	Setup
I.1.3	At the command prompt, type: `cd /pkg`	The command prompt returns.	Setup

	Operator Action	Expected Result	Observed Result

I.1.4	At the command prompt, type:
	
	`cp -pr`
	
	`/cdrom/kpc_4206/seg/4205kern_sol.t`
	`ar.Z /pkg`
		The command prompt returns.	Setup

I.1.5	At the command prompt type: `uncompress 4205kern_sol.tar.Z`	The command prompt returns.	Setup
I.1.6	At the command prompt, type: `tar xf 4205kern_sol.tar`	The command prompt returns.	Setup
I.1.7	At the command prompt, type: `rm 4205kern_sol.tar`	The command prompt returns.	Setup
I.1.8	Install the kernel by typing: `./inst.dii`	The kernel begins to install and prompts the tester for iput.	Circle one: PASS / FAIL
J	4.10 Export the APM master's public key and create the installation package.		
J.1	**Export the APM Master's Public Key (Validation Host)**		
J.1.1	On the Validation Host, log in as `secman`.	The desktop appears.	Circle one: PASS / FAIL
J.1.2	Select `Applications > Application Manager > DII_APPS > SecAdm`	The `Application Manager – SecAdm` window appears.	Circle one: PASS / FAIL

	Operator Action	**Expected Result**	**Observed Result**
J.1.3	Double-click `APM Key Server` to launch the `Key Server`.	The `Key Server` window appears.	Circle one: PASS / FAIL
J.1.4	Enter the Master APM Authentication key and click `Start`.	Asterisks appear in the textbox.	Circle one: PASS / FAIL
J.1.5	Click `Start`.	An `Information` window appears stating the `Key Server` started successfully.	Circle one: PASS / FAIL
J.1.6	Click `OK`.	The `Information` and `Key Server` windows close.	Circle one: PASS / FAIL
J.1.7	On the Validation Host, log in as `keyman`.	The desktop appears.	Circle one: PASS / FAIL
J.1.8	Select `Applications > Application Manager > DII_APPS > APM > Public Key Manager`	The `Public Key Manager` window appears.	Circle one: PASS / FAIL
J.1.9	Click `Export`.	The `Save Public Key File` window appears.	Circle one: PASS / FAIL
J.1.10	In the `Enter path or folder name:` textbox, type: `/h/COE/Comp/APM/data`	`/h/COE/Comp/APM/data` appears in the `Enter path or folder name:` textbox.	Circle one: PASS / FAIL
J.1.11	In the `Enter file name:` textbox, type `keyfile.txt`.	`keyfile.txt` appears in the `Enter file name:` textbox.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
J.1.12	Click `Save`.	A confirmation appears with the file location listed.	Circle one: PASS / FAIL
J.1.13	Click `OK`.	Control returns to the `Public Key Manager` window.	Circle one: PASS / FAIL
J.1.14	Click `Cancel`.	The `Public Key Manager` window disappears.	Circle one: PASS / FAIL
K	4.11 Create The Kernel Installation Package (Validation Host)		
K.1	**Create The Kernel Installation Package on the Validation Host**		
K.1.1	On the Validation Host, open a `Terminal` window.	A Terminal window appears.	Circle one: PASS / FAIL
K.1.2	Type: `su -`	A password prompt appears.	Circle one: PASS / FAIL
K.1.3	Type the `root` password.	The command prompt returns.	Circle one: PASS / FAIL
K.1.4	Type: `csh`	The command prompt returns.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
K.1.5	Type: `cp /h/COE/Comp/APM/data/keyfile.txt /pkg`	The command prompt returns.	Circle one: PASS / FAIL
K.1.6	Type: `cd /pkg`	The command prompt returns.	Circle one: PASS / FAIL
K.1.7	Type: `./MakePackage -o /packages/kernel.pkg -p /pkg -c "inst.dii -silent -keyfile keyfile.txt"`	The `kernel.pkg` file is created in the `/packages` directory.	Circle one: PASS / FAIL
L	4.12 Distribute the installation package. **NOTE: This procedure uses ftp to distribute the installation package. Other distribution mechanisms may be used.**		
L.1	**FTP Package To Clients (Validation Host)**		
L.1.1	On the Validation Host, type: `cd /packages`	The command prompt returns.	Setup
L.1.2	Type: `ftp kpccp`	A `Name` prompt returns.	Setup
L.1.3	Type: `root`	A password prompt appears.	Setup

	Operator Action	Expected Result	Observed Result
L.1.4	Type the `root` password.	An `ftp>` prompt appears.	Setup
L.1.5	Type: `cd /tmp`	The command prompt returns.	Setup
L.1.6	Type: `bin`	The command prompt returns.	Setup
L.1.7	Type: `put kernel.pkg`	The command prompt returns.	Setup
L.1.8	Type: `bye`	The # command prompt returns.	Setup
M	4.13 Install the kernel on the client.		
M.1	**Remotely Install Kernel (Validation Host)**		
M.1.1	On the Validation Host, type: `rlogin kpccp -l root`	A password prompt appears.	Setup
M.1.2	Type the `root` password.	The command prompt returns.	Setup
M.1.3	Type: `cd /tmp`	The command prompt returns.	Setup

	Operator Action	**Expected Result**	**Observed Result**
M.1.4	Type: `    chmod +x kernel.pkg`	The command prompt returns.	Setup
M.1.5	Type: `    ./kernel.pkg`	The kernel installs on the Candidate Platform. Wait for the kernel installation process to complete prior to advancing to the next step.	Circle one: PASS / FAIL
N	4.14 Perform an automatic merge host.		
N.1	**Distribute Keys (Validation Host)**		
N.1.1	On the Validation Host, open a new `Terminal` window.	A new `Terminal` window appears.	Setup
N.1.2	Type: `vi /h/COE/Comp/APM/data/HostList`	A file named `HostList` is created and opened for editing.	Setup
N.1.3	Type: `    i`	The editor is in insert mode.	Setup
N.1.4	Type: `    kpccp`	`kpccp` appears in the `HostList` file.	Setup
N.1.5	Press [Esc].	The file `HostList` is closed for editing.	Setup
N.1.6	Type: `:wq!`	The file `HostList` is exited.	Setup

	Operator Action	**Expected Result**	**Observed Result**
N.1.7	Select `Applications > Application Manager > DII_APPS > APM > Authentication Manager`.	The `Authentication Manager` window appears.	Circle one: PASS / FAIL
N.1.8	Enter the Master APM authentication key.	Asterisks appear in the textbox.	Circle one: PASS / FAIL
N.1.9	Click `Set Client's Local Key`.	The `Hosts List` window appears.	Circle one: PASS / FAIL
N.1.10	Click `Import Host List`.	The `Open Host List File` window appears.	Circle one: PASS / FAIL
N.1.11	Verify that the path name is `/h/COE/Comp/APM/data` and select the `HostList` file.	The `HostList` file is highlighted.	Circle one: PASS / FAIL
N.1.12	Click `OK`.	An `Information` window appears.	Circle one: PASS / FAIL
N.1.13	Click `OK`.	The `Information` window closes and `kpccp` is listed.	Circle one: PASS / FAIL
N.1.14	Click `Select Hosts Without Keys`.	`kpccp` is highlighted.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
N.1.15	Click `Generate Keys`.	An `Information` dialog box appears stating: `Key generation complete.`	Circle one: PASS / FAIL
N.1.16	Click `OK`.	The dialog box disappears.	Circle one: PASS / FAIL
N.1.17	Click `Distribute Keys`.	An `Information` dialog box appears stating: `Key distribution complete.`	Circle one: PASS / FAIL
N.1.18	Click `OK`.	The dialog box disappears.	Circle one: PASS / FAIL
N.1.19	Close the `Hosts List` and `Authentication Manager` windows.	The windows close.	Circle one: PASS / FAIL
N.2	**Automated Merge (Validation Host)**		
N.2.1	On the Validation Host, log in as `secman`.	The `DII COE LOGIN` screen appears.	
N.2.2	Select `Applications > Application Manager > DII_APPS > SecAdm > Merge Host`.	The `MergeHost Tool` window appears.	Circle one: PASS / FAIL
N.2.3	Click `Merge a List of New Hosts`.	The `Select Hosts to Merge` window appears with `kpccp` listed.	Circle one: PASS / FAIL
N.2.4	Click `Highlight All Available`.	`kpccp` in the `Available` pane is highlighted.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
N.2.5	Click the right arrow button.	kpccp moves to the Selected pane.	Circle one: PASS / FAIL
N.2.6	Click OK.	An Input dialog box appears requesting the master APM authentication key.	Circle one: PASS / FAIL
N.2.7	Enter the master APM authentication key.	Asterisks appear in the textbox.	Circle one: PASS / FAIL
N.2.8	Click OK.	The merge host process completes with no user interaction. Wait for the merge host process to complete before advancing to the next step A Done dialog box appears.	Circle one: PASS / FAIL
N.2.9	Click OK.	The Done dialog box disappears.	Circle one: PASS / FAIL
N.2.10	Click Cancel twice to close the Select Hosts to Merge and MergeHost Tool windows.	The windows close.	Circle one: PASS / FAIL

	Operator Action	**Expected Result**	**Observed Result**
O	4.15 Add new users to each host.		
O.1	**Create Users (Validation Host)**		
O.1.1	On the Validation Host, log in as `secman`.	The desktop appears.	
O.1.2	Select `Applications > Application Manager > DII_APPS > SecAdm > APM Client`	An `Input` window appears.	Setup
O.1.3	Enter the APM Master authentication key.	Asterisks appear in the textbox.	Setup
O.1.4	Click `OK`.	The `Account and Profile Manager` window appears.	Setup
O.1.5	Select `File > New Account`.	The `Create Account` window appears.	Setup
O.1.6	Create a new User with the following parameters: Login: – `UnixTest` Password: - `<Password>` Default Group – `other` Hosts – select both hosts	The User `UnixTest` parameters are entered.	Circle one: PASS / FAIL
O.1.7	Click `Submit`.	The `Status Summary` window appears showing the new account successfully added to both hosts.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
O.1.8	Click OK.	The `Status Summary` window disappears.	Circle one: PASS / FAIL
O.2	**Log in To Client Machine (Candidate Platform)**		
O.2.1	Log in to the Candidate Platform as `UnixTest`.	Login is allowed.	Circle one: PASS / FAIL
Z	**4.16** Log out of the Validation Host (kpchost) and the Candidate Platform (kpccp)		

End of Test Validation Procedure