The Open Group COE Platform Certification Program Chapter 2 Print Services

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 Print Services 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 Standard¹.

2. Test Procedure

2.1 Scope

This test procedure demonstrates the ability of the Candidate Platform to print ASCII text and postscript graphics to both a locally attached printer and a printer attached directly to the network.

2.2 Description of test items

The following functions will be exercised:

- A. Power Up and Login (Optional)
- B. Attach a Printer to the Candidate Platform
- C. From the GUI Desktop, Add a Locally Attached Printer to the Candidate Platform
- D. From the Command Line, Print Text and Graphics to the Locally Attached Printer.
- E. From the GUI Desktop, Add a Network Printer to the Candidate Platform
- F. From the Command Line, Print Text and Graphics to the Network Printer.
- G. From the GUI Desktop, Delete the Network and Locally Attached Printers from the Candidate Platform.
- H. Detach the Printer from the Candidate Platform
- Z. Logout (Optional)

2.3 Test Data/Media Required

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

Two files: "print_tx.txt" and "print_ps.ps" located in the

"/kpc/Printtest" directory on the Validation Host. This directory will be NFS mounted on the Candidate Platform in order to make the KPC test data files available on the Candidate Platform. Attachments 1 and 2 provide a visual reference for how the printed ASCII text and postscript graphics files should appear when printed.

2.4 Setup/Equipment Required

The Validation Host must be running the Printer Services available to the Candidate Platform. The Candidate Platform must have at least one printer that can be attached to the appropriate port e.g. a serial or parallel port. The Candidate Platform should have a root, System Administrator, secman and a regular User account created before the validation test run and must be network ready.

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

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3. Test Procedure Submission Form

Test Title: Print Services Validation Procedure

red Runtime: <u>1.5 hours</u>
Runtime
Test Result (Circle One): PASS / FAIL
Software:
-

Start of Validation Procedure

4. Test Procedure

	Operator Action	Expected Result	Observed Result
Α	4.1 Power-Up and Login		
A.1	Power-Up the Candidate Platform (Optional:	Use if not already powered up.)	
A.1.1	Power up the Candidate Platform and verify that the DII COE Login screen appears.	The DII COE login screen appears with the DoD security warning message and the Please enter your user name text box.	Setup
A.2	Login to sysadmin (Optional: Use if not already	v logged in.)	
A.2.1	In the Please enter your user name text box, type: sysadmin[r]	The password screen appears with the Please enter your password text box.	Setup
A.2.2	In the Please enter your password text box type the password for the sysadmin account and press [RETURN].	An Informational Message dialog box appears confirming that COE login processing is compete.	Setup
A.2.3	Click OK in the Informational Message dialog box.	The dialog box disappears. The menu bar, security classification and CDE desktop appear.	Setup

	Operator Action	Expected Result	Observed Result
A.3	Mount the KPC Test Data. (Optional: Use if	files not already NFS mounted.)	
A.3.1	Export the /kpc filesystem on kpchost.	System returns a command prompt.	Setup
A.3.2	NFS mount $/kpc$ directory from the Validation Host to the Candidate Platform. Type:	A message confirms that the filesystem has been mounted.	Setup
	su - root mount kpchost:/kpc[s]/kpc exit	The $/\mathrm{kpc}$ directory is exported by the Validation Host.	
A.3.3	Copy both "print_tx.txt" and "print_ps.ps" into the "/h/USERS/local/sysadmin/Scripts" directory. Type: su - root cp /kpc/Printtest/*[s] /h/USERS/local/sysadmin/Scripts exit	System returns a command prompt.	Setup

	Operator Action	Expected Result	Observed Result
В	4.2 Attach a Printer to the Candidate Platfo	orm	
B.1	Physically Connect Printer to Candidate Platfo	rm	
B.1.1	Use cable to attach the Printer parallel port to the Candidate Platform parallel port. NOTE: This step documents the procedure for the KPC "Reference Platform". KPC vendors should submit a modification to this step if their procedure differs. Any connection technology may be used.	Printer connectivity with Candidate Platform is established.	Setup
B.2	Add System Software Support for Locally Atta	ched Printer	

	Operator Action	Expected Result	Observed Result
B.2.1	Add printer driver (if needed - None needed for Sun Solaris, so this step may be ignored for that platform)	Successful installation and initialization of printer driver is confirmed.	Circle one: PASS / FAIL
	NOTE: This step documents the procedure for the KPC reference platform. KPC vendors should submit a modification to this step if their procedure differs.		
С	4.3 From the GUI Desktop, Add a Locally Attached	Printer to the Candidate Platform	
C.1	Set up a Local printer Using the new Printer D	Domain Name	
C.1.1	Open an Xterm window and enter the following command to determine the correct port to use.	The system returns the name of the local parallel port in the /dev directory.	Circle one: PASS / FAIL
	Is /dev grep pp		
C.1.2	Right click on desktop to make menu appear. Select SysAdm >Admintool: Printers > Browse > Printers	The Admintool: Printers window appears.	Circle one: PASS / FAIL
C.1.3	Select Edit > Add > Local Printer from the Admintool: Printers window.	The Add Printer window appears.	Circle one: PASS / FAIL

	Operator Action		Expected Result		Observed Result
C.1.4	In the Add Printer b information:	box, type the following	The new printer appears in the Admintool: Printers window.		Circle one: PASS / FAIL
	Printer Name:	KPCparallel	Printer Name:	KPCparallel	
	Description:	Parallel Printer	Server:	kpccp	
	Printer Port:	/dev/ <results of<br="">Step C.1.1></results>	Description:	Parallel Printer	
	Printer Model Type:	Postscript			
	File Type:	Postscript			
	Default Printer	: Check Box			
	Click [Ott] when some	lata			
	Click [OK] when comp	nete.			
D	4.4 From the Command Line, Print Text and Graphics to the Locally Attached Printer				
D.1	Open an Xterm				
D.1.1	On the Candidate Platfo desktop and select the fo	rm, Right Click on the ollowing menu items:	An Xterm window	appears.	Circle one: PASS / FAIL
	Tools> Terminal				
D.2	Print an ASCII Text file to the Locally Attached Printer				
D.2.1	Type: lp /kpc/Prir	nttest/print_tx.txt	Print output appea	ars as shown in Attachment 1.	Circle one: PASS / FAIL
D.3	Print a Postscript graphics file to the Locally Attached Printer				
D.3.1	Type: lp /kpc/Prir	nttest/print_ps.ps	Print output appea	ars as shown in Attachment 2.	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
	Note: Other print invocation methods, e.g."Drag and Drop" printing, may be added.		
Е	4.5 From the GUI Desktop, add a Network Printer to	o the Candidate Platform.	
E.1	Add a Network Printer to the Candidate Platform.		
E.1.1	Select SysAdm > Admintool: Printers > Browse > Printers	Admintool: Printers window appears.	Circle one: PASS / FAIL
E.1.2	Select Edit > Add > Access to Printer from the Admintool: Printers window	Add Printer window appears.	Circle one: PASS / FAIL
E.1.3	In the Access to Printer box, type the following information:	The Add Printer box will disappear, leaving the ASCII printer appearing in the Admintool: Printers window.	Circle one: PASS / FAIL
	Printer Name: kpccp		
	Print Server : kpcnetlp	Printer Name: kpccp	
	Description: Network Printer	Server: kpcnetlp	
		Description: Network Printer	
	Check the box marked "System Default Printer".		
	Click [OK] when complete.		

	Operator Action	Expected Result	Observed Result
F	4.6 From the Command Line, Print Text an	d Graphics to the Network Printer	
F.1	Print an ASCII Text file to the Network Printer		
F.1.1	Туре:	Print output appears as shown in Attachment 1.	Circle one: PASS / FAIL
	lp /kpc/Printtest/print_tx.txt		
	or		
	/usr/lib/lp/postscript/postprint[s]/ kpc/Printtest/print_tx.txt lp		
	or		
	drag the file from the file manager to the printer icon at the bottom of the screen.		
F.2	Print a Postscript graphics file to the Network Prin	iter	

	Operator Action	Expected Result	Observed Result
F.2.1	Туре:	Print output appears as shown in Attachment 2.	Circle one: PASS / FAIL
	lp /kpc/Printtest/print_ps.ps		
	or		
	drag the file from the file manager to the printer icon at the bottom of the screen.		
F.3	Close the Xterm		
F.3.1	On the Candidate Platform, double-click the top left corner to close the Xterm window.	The Xterm window disappears.	Circle one: PASS / FAIL
	Note: Other print invocation methods, e.g."Drag and Drop" printing, may be added.		
G	4.7 From the GUI Desktop, Delete the Net	work and Locally Attached Printers from the G	Candidate Platform
G.1	Open Printer Administration Dialog Box		
G.1.1	Select SysAdm > Admintool: Printers > Browse >Printers	The Admintool: Printers window opens.	Circle one: PASS / FAIL
G.2	4.7.1.1.1.1 Delete Locally Attached Printer from the Candidate	Platform	
G.2.2	Click on local printer "KPCparallel".	The "KPCparallel" is selected	Circle one: PASS / FAIL

	Operator Action	Expected Result	Observed Result
G.2.3	Select Edit > Delete from the Admintool: Printers window.	A question will appear to confirm deletion.	Circle one: PASS / FAIL
G.2.4	When the question appears: "Do you really want to Delete Printer KPCparallel?" Click [Delete].	The message appears: "delete printer failed".	Circle one: PASS / FAIL
G.2.5	Click OK.	The Admintool closes.	Circle one: PASS / FAIL
G.2.6	Select SysAdm > Admintool:Printers > Browse > Printers	The Admintool:Printers window opens.	Circle one: PASS / FAIL
G.2.7	Verify the local printer does not appear.	The local printer does not appear.	Circle one: PASS / FAIL
G.3	Delete Network Printer from the Candidate Pla	atform	
G.3.2	Click on network printer "kpccp".	The "kpccp" is selected	Circle one: PASS / FAIL
G.3.3	Select Edit > Delete from the Admintool: Printers window.	A question will appear to confirm deletion.	Circle one: PASS / FAIL
G.3.4	When the question appears: "Do you Really want to Delete Printer "kpccp?" Click [Delete].	The "kpccp" disappears indicating that the printer is deleted.	Circle one: PASS / FAIL
G.4	Close Printer Administration Dialog Box		
G.4.1	Select Exit on the Admintool: Printers dialog.	The Admintool: Printers window disappears.	Circle one: PASS / FAIL
Н	4.8 Detach the Printer from the Candidate Platform		
H.1	Disconnect the Printer from the Candidate Pla	tform	

	Operator Action	Expected Result	Observed Result
H.1.1	Disconnect the cable used to attach the Printer parallel port to the Candidate Platform parallel port.	Printer connectivity with Candidate Platform is eliminated.	Setup
	NOTE: This step documents the procedure for the KPC "Reference Platform". KPC vendors should submit a modification to this step if their procedure differs. Any connection technology may be used.		
Н.2	Remove System Software Supporting the Loca	Illy Attached Printer	
H.2.1	Removed printer driver (if needed - None needed for Sun Solaris, so this step may be ignored for that platform).	Successful installation and initialization of printer driver is confirmed.	Circle one: PASS / FAIL
	NOTE: This step documents the procedure for the KPC "Reference Platform". KPC vendors should submit a modification to this step if their procedure differs.		

	Operator Action	Expected Result	Observed Result
Z	4.9 Logout (Optional: Use if no further validation is to be done.)		
Z.1	Unmount the KPC Test Data		
Z.1.1	To mount and unmount type:	System returns a command prompt.	Shutdown
	su root		
Z.1.2	Unmount the KPC Test Data on the Candidate Platform . Type:	System returns a command prompt.	Shutdown
	umount /kpc		
Z.2	Verify sysadmin Logout		
Z.2.1	Log into the Candidate Platform as sysadmin.	The menu bar, security classification and DCE desktop appear.	Shutdown
Z.2.2	Select [EXIT] button from CDE.	Logout confirmation window appears.	Shutdown
Z.2.3	Select [OK]	System exits and the DII COE login screen appears.	Shutdown

End of Test Validation Procedure