The Open Group
COE Platform Certification Program
Chapter 10
File Transfer Protocol (FTP) Interoperability
Validation Procedure

Posix-Based Platform Compliance (PPC)

COE Kernel revision level 4.5p6

June 02, 2003

Revision 1.0

Table of Contents

1.1 Introduction

This chapter defines the File Transfer Protocol (FTP) Interoperability Manual Validation Procedure and is part of the required set of test procedures to be used in certification of products to The Open Brand COE Platform Product Standard[1].

2. Test Procedure

2.1 Scope:

This demonstration provides a first order verification of TCP/IP interoperability and basic BSD sockets API support for the Candidate Platform being certified. The demonstration also provides some assurance of application level interoperability for key File Transfer Protocol (FTP) services and protocols. The demonstration suite for ftp uses ASCII and Binary files located on the **Validation Host** and on the **Candidate Platform**. Test files located on the remote Validation Host are transferred to the Candidate Platform, and key ftp capabilities are exercised from the Candidate Platform. Test files located on the Candidate Platform are then transferred to the remote Validation Host, and key ftp capabilities are exercised from the remote Validation Host.

2.2 Description of test items

The following functions will be exercised:

A.   Login
B.   Setup Test Data and Confirm Validation Cell Configuration
C.   Setup Test Data and Confirm Candidate Platform Configuration
D.   On the **Candidate Platform** using ftp download the ascii and binary test files from the **Validation Host** using the get command.
E.   Exercise ftp server operations provided by and initiated on the **Candidate Platform**

F.   Execute ftp client operations initiated on the **Validation Platform.**
G.   Delete test files and logout of the remote session.
Z.   Logout

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

2.3 Test Data/Media Required

The following test files are required: `FTPfl.txt, FTPfl.bin`. These test files are available on the Validation Host in the "`/kpc/ftp`" sub-directory.

2.4 Setup/Equipment Required

The COE Validation Host must be running the ftp Service and available to the platform under validation. The Host directory `/kpc` must be NFS mounted on the **Candidate Platform** on the `/kpc` directory.

A local pair of test files, "`ftp_cp.txt`" and "`ftp_cp.bin`", are copied to a **Candidate Platform** "`/ftptmp_cp`" subdirectory during setup. Another pair of test files, "`ftp_vh.txt`" and "`ftp_vh.bin`", is copied to KPC **Validation Host** subdirectory during setup.

The destination subdirectories for file transfers are "`/ftptmp_vh`" for the **Validation Host**, and "`/ftptmp_cp`" for the **Candidate Platform**. In all cases, files created by ftp file transfers are named "`ftptest<N>`", where `N` is 1 through 8 for each test file.

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

<u>Test Title: File Transfer Protocol (FTP) Interoperability Demonstration</u>

Candidate Platform: _____   Date: _____

Tester: _____   Estimated Runtime: <u>1 hours</u>_____

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

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

<u>Configuration Validated</u>

Hardware Platform: _____   System Software: _____

Network Type: _____   Printer: _____

Local Devices (if any): _____

Start of Validation Procedure

4. Test Procedure

Step	Operator Action	Expected Result	Observed Result
A	**4.1** Power-Up and Login **(Optional: Use if not already powered up or logged in.)**		
A.1	**On Candidate Platform and Validation Host login as sysadmin**		
A.2.	Power up the Candidate Platform and verify that the `COE LOGIN` screen opens.	The `COE LOGIN` screen opens with the DoD security-warning message and the "`Please enter your user name`" text box.	Setup
A.3.	In the "`Please enter your user name`" text box enter: `sysadmin`	The password screen opens with the "`Please enter your password`" text box.	Setup
A.4.	In the "`Please enter your password`" text box enter the password for `sysadmin`: `password`	An `Informational Message` dialog box opens confirming the `COE LOGIN` process is compete.	Setup
A.5.	Click: `OK`	The dialog box closes and the menu bar, security classification and CDE are displayed.	Setup

Step	Operator Action	Expected Result	Observed Result
A.6.	Open an XTerm window. Select `Applications > Application Manager > DII_APPS > SysAdm`	The `Application Manager – SysAdm` window opens with the following icons: (go up), `Adm Tool, Change Machine ID, Create Action, DTterm, Disk Manager, Edit Local Hosts, Network Installation Server, Reboot System, Segment Installer, Set DNS, Set Routes, Set System Time, Shutdown System, Text Edit, XTerm.`	Setup
A.7.	Double Click the XTerm Icon: `XTerm`	An `XTerm` window opens and the login prompt is displayed.	Setup
A.8.	Login as sysadmin enter: `sysadmin`	The password prompt returns.	Setup
A.9.	Enter the sysadmin password: `password`	The system prompt returns.	Setup
A.10.	Invoke super-user privileges: `su – root`	The password prompt returns.	Setup

Step	Operator Action	Expected Result	Observed Result
A.11.	Enter the root password: `password`	The system prompt returns.	Setup
A.12.	Ensure that ftp is running on the Candidate Platform and Validation Host enter: `more /etc/inetd.conf`	If the ftp line is commented out. `"vi"` edit the inetd.conf file and uncomment the line on both the Candidate Platform and Validation Host. Then reboot both the Candidate Platform and Validation Host.	Setup
B.	4.2 Confirm Configuration On the Validation Host		
B.1.	**On the Validation Host**		
B.2.	Open an XTerm window. Select `Applications > Application Manager > DII_APPS > SysAdm`	The `Application Manager – SysAdm` window opens with the following icons: (go up), `Adm Tool, Change Machine ID, Create Action, DTterm, Disk Manager, Edit Local Hosts, Network Installation Server, Reboot System, Segment Installer, Set DNS, Set Routes, Set System Time, Shutdown System, Text Edit, XTerm.`	Setup

Step	Operator Action	Expected Result	Observed Result
B.3.	Double Click the XTerm Icon: Xterm	An XTerm window opens.	Setup
B.4.	Login as sysadmin enter: sysadmin	The password prompt returns.	Setup
B.5.	Enter the sysadmin password: password	The system returns the command line prompt.	Setup
B.6.	Invoke super-user privileges: su – root	The system returns the password prompt.	Setup
B.7.	Enter the root password: password	The system prompt returns.	Setup
B.8.	Change to the root directory enter: cd /	The system prompt returns.	Setup

Step	Operator Action	Expected Result	Observed Result
B.9.	Ensure that the ascii and binary files FTPfl.txt and FTPfl.bin are in the /kpc/ftp subdirectory and check that the ownership, permissions and size are appropriate enter: `ls –al /kpc/ftp`	The system prompt returns. Enter the file size shown for `FTPfl.txt`: _____bytes Enter the file size shown for `FTPfl.bin`: _____bytes	Setup
B.10.	Create a temporary ftp test directory enter: `mkdir /ftptmp_vh`	The system prompt returns.	Setup

B.11.	`Change the file permissions enter:`
	
	`chmod 777 /ftptmp_vh`
		The system prompt returns.	Setup

B.12.	Change to the temporary directory enter: `cd /ftptmp_vh`	The system prompt returns.	Setup

Step	Operator Action	Expected Result	Observed Result
B.13.	Copy the /kpc/ftp/FTPfl.txt file to the default directory and rename the file /ftptmp_vh/ftp_vh.txt enter: `cp /kpc/ftp/FTPfl.txt ftp_vh.txt`	The system prompt returns.	Setup
B.14.	Copy the /kpc/ftp/FTPfl.bin file to the default directory and rename the file /ftptmp_vh/ftp_vh.bin enter: `cp /kpc/ftp/FTPfl.bin ftp_vh.bin`	The system prompt returns.	Setup
B.15.	Ensure that the ascii and binary files have the appropriate owner, permissions and are the same size as the original txt and bin files enter: `ls -al`	The contents of the subdirectory are displayed. Enter the file size shown for ftp_vh.txt: _____bytes. Enter the file size shown for ftp_vh.bin: _____bytes	Setup

Step	Operator Action	Expected Result	Observed Result
C.	4.3 Confirm Configuration On the Candidate Platform		
C.1.	**On the Candidate Platform**		
C.2.	Open an XTerm window. Select `Applications > Application Manager > DII_APPS > SysAdm`	The `Application Manager – SysAdm` window opens with the following icons: (go up), `Adm Tool, Change Machine ID, Create Action, DTterm, Disk Manager, Edit Local Hosts, Network Installation Server, Reboot System, Segment Installer, Set DNS, Set Routes, Set System Time, Shutdown System, Text Edit, XTerm.`	Setup
C.3.	Double Click the XTerm Icon: 　　　`XTerm`	An `XTerm` window opens and the login prompt is displayed.	Setup
C.4.	Login as sysadmin enter: 　　　`sysadmin`	The password prompt returns.	Setup
C.5.	Enter the sysadmin password: 　　　`password`	The system returns the command line prompt.	Setup

Step	Operator Action	Expected Result	Observed Result
C.6.	Invoke super-user privileges: `su – root`	The system returns the password prompt.	Setup
C.7.	Enter the root password: `password`	The system prompt returns.	Setup
C.8.	Change to the root directory enter: `cd /`	The system prompt returns.	Setup
C.9.	Create a temporary ftp test directory enter: `mkdir /ftptmp_cp`	The system prompt returns.	Setup

C.10.	`Change the file permissions enter:`
	
	`chmod 777 /ftptmp_cp`
		The system prompt returns.	Setup

C.11.	Change to the temporary directory enter: `cd /ftptmp_cp`	The system prompt returns.	Setup

Step	Operator Action	Expected Result	Observed Result
D.	4.4 On the Candidate Platform using ftp **download the ascii and binary test files from the Validation Host using the get command.**		
D.1.	Execute the ftp program at the XTerm system prompte enter: `ftp`	An ftp prompt is displayed. `ftp>`	Circle one: PASS / FAIL
D.2.	At the ftp prompt, connect to the Validation Host. Type: `open kpchost.kpc.disa.mil`	A message confirms that an ftp session is established.	Circle one: PASS / FAIL
D.3.	Enter sysadmin when prompted: `sysadmin`	The password prompt returns.	Circle one: PASS / FAIL
D.4.	Enter the sysadmin password when prompted: `Password`	The ftp prompt returns.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
D.5.	At the ftp prompt set the local directory to ftptmp_cp enter: `lcd /ftptmp_cp`	The message "`Local directory now /ftptmp_cp`" is displayed and the ftp prompt returns.	Circle one: PASS / FAIL
D.6.	At the ftp prompt set the remote directory to ftptmp_vh enter: `cd /ftptmp_vh`	The message "`cd command successful`" is displayed and the ftp prompt returns.	Circle one: PASS / FAIL
D.7.	At the ftp prompt set the file type to ascii enter: `ascii`	A message, "`Type set to A`" is displayed.	Circle one: PASS / FAIL
D.8.	At the ftp prompt download the remote file from the Validation Host to the Candidate Platform enter: `get ftp_vh.txt ftp_cp.txt`	A message confirms the ascii file transfer is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL
D.9.	At the ftp prompt set the file type to binary enter: `binary`	A message, "`Type set to I`" is displayed.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
D.10.	At the ftp prompt download the remote file from the Validation Host to the Candidate Platform enter: `get ftp_vh.bin ftp_cp.bin`	A message confirms the ascii file transfer is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL
D.11.	Quit ftp enter: quit	The system prompt returns in the XTerm window.	Circle one: PASS / FAIL
D.12.	Ensure that the ascii and binary files have the appropriate owner, permissions and are the same size as the original txt and bin files enter: ls –al	The contents of the subdirectory are displayed and the system prompt returns. Enter the file size shown for ftp_vh.txt: _____bytes. Enter the file size shown for ftp_vh.bin: _____bytes	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
E.	4.5 Execute ftp client operations initiated on the Candidate Platform. **ftp server runs remotely on the Validation Host.** **Download and upload ascii and binary test files using the get and put commands on the Candidate Platform.**		
E.1.	On the Candidate Platform open a second Xterm window. Select `Applications > Application Manager > DII_APPS > SysAdm`	The `Application Manager – SysAdm` window opens with the following icons: (go up), `Adm Tool, Change Machine ID, Create Action, DTterm, Disk Manager, Edit Local Hosts, Network Installation Server, Reboot System, Segment Installer, Set DNS, Set Routes, Set System Time, Shutdown System, Text Edit, XTerm.`	Circle one: PASS / FAIL
E.2.	Double Click the Xterm Icon: `XTerm`	A second `XTerm` window opens.	Circle one: PASS / FAIL
E.3.	Login as sysadmin enter: `sysadmin`	The password prompt returns.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
E.4.	Enter the sysadmin password: `password`	The system prompt returns.	Circle one: PASS / FAIL
E.5.	In the second Xterm, window execute the ftp program enter: `ftp`	An ftp prompt is displayed. `ftp>`	Circle one: PASS / FAIL
E.6.	On the Candidate Platform at the ftp prompt open a connection to the Validation Host enter: `open kpchost.kpc.disa.mil`	A message confirms that an ftp session is established and the ftp login prompt is displayed.	Circle one: PASS / FAIL
E.7.	At the ftp login prompt enter: `sysadmin`	The ftp password prompt is displayed.	Circle one: PASS / FAIL
E.8.	Enter the sysadmin password: `password`	The ftp prompt is returned	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
E.9.	At the ftp prompt set the local directory to ftptmp_cp enter: `lcd /ftptmp_cp`	The message "`Local directory now /ftptmp_cp`" is displayed and the ftp prompt returns.	Circle one: PASS / FAIL
E.10.	At the ftp prompt set the remote directory to `ftptmp_vh` enter: `cd /ftptmp_vh`	The message "`cd command successful`" is displayed and the ftp prompt returns.	Circle one: PASS / FAIL
E.11.	At the ftp prompt set the file type to ascii enter: `ascii`	A message, "Type set to A" is displayed.	Circle one: PASS / FAIL
E.12.	At the ftp prompt download the remote ascii file from the Validation Host to the Candidate Platform enter: `get ftp_vh.txt ftptest1vh.txt`	A message confirms the ascii file transfer is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL
E.13.	At the ftp prompt upload the local ascii test file from the Candidate Platform to the Validation Host enter: `put ftp_cp.txt ftptest2cp.txt`	A message confirms that an ASCII transfer is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
E.14.	Switch to the other XTerm window on the Candidate Platform to compare the local and downloaded files enter: `cmp –s /ftptmp_cp/ftp_cp.txt ftptest1vh.txt    && echo 'Files are identical'`	If the local and downloaded files are identical, the string "Files are identical" is displayed at the system prompt.	Circle one: PASS / FAIL
E.15.	Ensure that the binary file ftp_cp.bin has the appropriate owner, permissions, file type and size enter: `ls -l ftp_cp.bin`	Directory listing for the file opens. Enter the file size shown for ftp_cp.bin: _____bytes	Circle one: PASS / FAIL
E.16.	On the Validation Host in the XTerm window at the system prompt compare the local and uploaded ascii files enter: `cmp –s ftp_vh.txt ftptest2cp.txt && echo  'Files are identical'`	If the local and uploaded files are identical, the string "Files are identical" is displayed and the system prompt returns.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
E.17.	Ensure that the binary file ftp_vh.bin has the appropriate owner, permissions, file type and size enter: `ls -al`	The contents of the default subdirectory are displayed and the system prompt returns Enter the file size shown for ftp_vh.bin: _____bytes	Circle one: PASS / FAIL
E.18.	On the Candidate Platform at the ftp prompt set the file type to binary enter: `binary`	A message, "Type set to I" is displayed.	Circle one: PASS / FAIL
E.19.	At the ftp prompt download the remote file from the Validation Host to the Candidate Platform enter: `get ftp_vh.bin ftptest3vh.bin`	A message confirms that a binary transfer is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL
E.20.	At the ftp prompt upload the local binary test file from the Candidate Platform to the Validation Host enter: `put ftp_cp.bin ftptest4cp.bin`	A message confirms that a binary upload is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
E.21.	Switch to the other XTerm window on the Candidate Platform and ensure that the binary file ftptest3vh.bin has the appropriate owner, permissions, file type and size enter: `ls -al ftptest3vh.bin`	The contents of the default subdirectory are displayed and the system prompt returns Enter the file size shown for ftptest3vh.bin: _____bytes	Circle one: PASS / FAIL
E.22.	On the Validation Host in the XTerm window at the system prompt ensure that the binary file ftptest4cp.bin has the appropriate owner, permissions, file type and size enter `ls -al ftptest4cp.bin`	The contents of the default subdirectory are displayed and the system prompt returns Enter the file size shown for ftptest4cp.bin: _____bytes	Circle one: PASS / FAIL
E.23.	On the Candidate Platform quit ftp at the ftp prompt enter: `quit` and then type `exit` to close the current XTerm window.	The XTerm window system prompt returns.	Circle one: PASS / FAIL
E.24.	Exit the XTerm window enter: `exit`	The XTerm window closes.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.	4.6 Execute ftp client operations initiated on the Validation Host. **ftp server runs remotely on the Candidate Platform.** **Download and upload ascii and binary test files using the get and put commands on the Validation Host.**		
F.1.	On the Validation Host open a second XTerm window. Select `Applications > Application Manager > DII_APPS > SysAdm`	The `Application Manager – SysAdm` window opens with the following icons: (go up), `Adm Tool, Change Machine ID, Create Action, DTterm, Disk Manager, Edit Local Hosts, Network Installation Server, Reboot System, Segment Installer, Set DNS, Set Routes, Set System Time, Shutdown System, Text Edit, XTerm.`	Circle one: PASS / FAIL
F.2.	Double Click the XTerm Icon: `XTerm`	A second `XTerm` window opens.	Circle one: PASS / FAIL
F.3.	Login as sysadmin enter: `sysadmin`	The password prompt returns.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.4.	Enter the sysadmin password: `password`	The system prompt returns.	Circle one: PASS / FAIL
F.5.	In the second XTerm, window execute the ftp program enter: `ftp`	An ftp prompt is displayed. ftp>	Circle one: PASS / FAIL
F.6.	On the Validation Host at the ftp prompt open a connection to the Candidate Platform enter: `open kpccp.kpc.disa.mil`	A message confirms that an ftp session is established and the ftp login prompt is displayed.	Circle one: PASS / FAIL
F.7.	At the ftp login prompt enter: `sysadmin`	The ftp password prompt is displayed.	Circle one: PASS / FAIL
F.8.	Enter the sysadmin password: `Password`	The ftp prompt is returned	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.9.	At the ftp prompt set the local directory to ftptmp_vh enter: `lcd /ftptmp_vh`	The message "`Local directory now /ftptmp_vh`" is displayed and the ftp prompt returns.	Circle one: PASS / FAIL
F.10.	At the ftp prompt set the remote directory to ftptmp_cp enter: `cd /ftptmp_cp`	The message "`cd command successful`" is displayed and the ftp prompt returns.	Circle one: PASS / FAIL
F.11.	At the ftp prompt set the file type to ascii enter: `ascii`	A message, "`Type set to A`" is displayed.	Circle one: PASS / FAIL
F.12.	At the ftp prompt download the remote ascii file from the Candidate Platform to the Validation Host enter: `get ftp_cp.txt ftptest5cp.txt`	A message confirms the ascii file transfer is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL
F.13.	At the ftp prompt upload the local ascii test file from the Candidate Platform to the Validation Host enter: `put ftp_vh.txt ftptest6cp.txt`	A message confirms that an ascii file transfer is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.14.	Switch to the other XTerm window on the Candidate Platform to compare the local and downloaded files enter: `cmp –s /ftptmp_vh/ftp_vh.txt ftptest5cp.txt    && echo 'Files are identical'`	If the local and downloaded files are identical, the string "Files are identical" is displayed at the system prompt.	Circle one: PASS / FAIL
F.15.	Ensure that the binary file ftp_cp.bin has the appropriate owner, permissions, file type and size enter: `ls -l ftp_vh.bin`	Directory listing for the file opens. Enter the file size shown for `ftp_vh.bin`: _____bytes	Circle one: PASS / FAIL
F.16.	On the Validation Host in the XTerm window at the system prompt compare the local and uploaded ascii files enter: `cmp –s ftp_cp.txt ftptest6cp.txt && echo  'Files are identical'`	If the local and uploaded files are identical, the string `"Files are identical"` is displayed and the system prompt returns.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.17.	Ensure that the binary file ftp_cp.bin has the appropriate owner, permissions, file type and size enter: `ls -al`	The contents of the default subdirectory are displayed and the system prompt returns Enter the file size shown for ftp_cp.bin: _____bytes	Circle one: PASS / FAIL
F.18.	On the Candidate Platform at the ftp prompt set the file type to binary enter: `binary`	A message, "`Type set to I`" is displayed.	Circle one: PASS / FAIL
F.19.	At the ftp prompt download the remote file from the Validation Host to the Candidate Platform enter: `get ftp_cp.bin ftptest7cp.bin`	A message confirms that a binary transfer is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL
F.20.	At the ftp prompt upload the local binary test file from the Candidate Platform to the Validation Host enter: `put ftp_vh.bin ftptest8vh.bin`	A message confirms that a binary upload is in progress, then completed and the ftp prompt returns.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.21.	Switch to the other XTerm window on the Candidate Platform and ensure that the binary file ftptest3vh.bin has the appropriate owner, permissions, file type and size enter: `ls -al ftptest7vh.bin`	The contents of the default subdirectory are displayed and the system prompt returns Enter the file size shown for ftptest7cp.bin: _____bytes	Circle one: PASS / FAIL
F.22.	On the Validation Host in the XTerm window at the system prompt ensure that the binary file ftptest4cp.bin has the appropriate owner, permissions, file type and size enter `ls -al ftptest8vh.bin`	The contents of the default subdirectory are displayed and the system prompt returns Enter the file size shown for ftptest8vh.bin: _____bytes	Circle one: PASS / FAIL
F.23.	On the Candidate Platform quit ftp at the ftp prompt enter: `quit` and then type `exit` to close the current `xterm` window.	The XTerm window system prompt returns.	Circle one: PASS / FAIL
F.24.	Exit the XTterm window enter: `exit`	The XTerm window closes.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
G	4.7 Delete test files and logout of the remote session.		
G.1.	On the Validation Host remove all test files and the `ftptmp_vh` subdirectory enter: `rm /ftptmp_vh/*`	System prompt returns.	Cleanup
G.2.	Remove the ftp tmp_vh subdirectory enter: `rmdir /ftptmp_vh`	System prompt returns.	Cleanup
G.3.	Ensure that all test files have been removed enter: `ls /ftptmp_vh`	An error indicating that "`/ftptmp_vh`" no longer exists and the system prompt is returned.	Cleanup
G.4.	Invoke super-user privileges: `su – root`	The system returns the password prompt.	Cleanup
G.5.	Enter the root password: `password`	The system prompt returns.	Cleanup

Step	Operator Action	Expected Result	Observed Result
G.6.	Change to the root directory enter: `cd /`	The system prompt returns.	Cleanup
G.7.	On the Candidate Platform enter: `rm /ftptmp_cp/*`	System prompt returns.	Cleanup
G.8.	On the Candidate Platform enter: `rmdir /ftptmp_cp`	System prompt returns.	Cleanup
G.9.	On the Candidate Platform verify that all test files are deleted enter: `ls /ftptmp_cp`	System returns an error indicating that `"/ftptmp_cp"` no longer exists and then returns to the command prompt.	Cleanup

Step	Operator Action	Expected Result	Observed Result
Z	4.8 Logout **(Optional: Use if no further validation is to be done.)**		
Z.1	**Logout**		
Z.2	**Verify `sysadmin` Logout**		
Z.2.1	Log out of the Candidate Platform as sysadmin.	The menu bar, security classification and CDE desktop appear.	Shutdown
Z.2.2	Click the `EXIT` button on the CDE menu bar: `EXIT`	Logout confirmation window opens.	Shutdown
Z.2.3	Click: `OK`	The system exits and the `COE LOGIN` screen opens.	Shutdown

End of Test Validation Procedure