

The Open Group  
COE Platform Certification Program  
Chapter 11  
World Wide Web (WWW) Interoperability  
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 World Wide Web (WWW) Interoperability 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<sup>1</sup>.

## 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. The demonstration also provides some assurance of application level interoperability and the ability to support key Hyper-Text Transfer Protocol (HTTP) services and protocols. This procedure is not intended as a comprehensive test and only exercises a subset of TCP/IP, HTML and HTTP features. The demonstration of WWW services uses an HTTP conforming browser to retrieve a series of HTML 3.2 conforming web pages to and display them on the Candidate Platform. The test pages exercise key TCP/IP, Hyper-Text Markup Language (HTML), HTTP and forms related capabilities.

### 2.2 Description of test items

The following functions will be exercised:

- A. Login
- B. WWW Interoperability Demo Initiation
- C. Basic HTML Data Types
- D. Text Display / Tag Handling
- E. Multi-media Support
- F. Forms and Script Support
- Z. Logout

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<sup>1</sup> See <http://www.opengroup.org/openbrand/coe/>

### 2.3 Test Data/Media Required

Forms related HTML source files must be edited (`frm_inpt.htm`, `frm_slct.htm`, and `frm_text.htm` in the `/kpc/www` directory) to specify the email destination for form submission as the system administrator account ("`sysadmin`") on Validation Host. This is accomplished by searching for a "`mailto:`" string and substituting the Validation Host actual hostname into the string "`sysadmin@kpchost.kpc.disa.mil`".

**Note to Tester:** Be sure to edit these files before they are opened in the browser. Once opened, they will be cached, and clicking reload will only reload the cached (unedited) file. "Shift+reload" is required to reload the edited file from the server.

Forms related HTML source files must be edited to specify the email destination for form submission as the system administrator account ("`sysadmin`") on Validation Host. This is accomplished by searching for a "`mailto:`" string, and substituting the Validation Host actual hostname into the string "`sysadmin@kpchost.kpc.disa.mil`".

### 2.4 Setup/Equipment Required

The COE Validation Host must be set up as the WWW Server and network accessible to the Candidate Platform. An HTML 3.2, HTTP 1.0 web-browser installed on the Candidate Platform is needed to execute this validation procedure. The web-browser is not included in the COE kernel, and is considered part of the test suite. If a suitable browser is not provided as part of the Candidate Platform system software, a browser application with appropriate license(s), browser installation procedure, browser installation and execution instructions must be provided. Since the browser application is part of the test suite, the browser application need not be segmented, and may be invoked using an xterm or other means if necessary. The platform must also include a color display capable of displaying the 16 HTML named color entities (see step C.1.3).

**All other test data must be used without modification.** HTML source may be viewed using HTML editing tools, but should not be "saved". HTML tools often transform numeric character codes into character entity references and force tags substitutions **without notifying the user**. Executing this test with such transformed or modified data would invalidate the test results

### 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). An individual without color vision impairment must perform step C.1.3.

2.6 Change History

**June 02, 2003**

Initial Release
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### 3. Test Procedure Submission Form

#### **Test Title: World Wide Web (WWW) Interoperability Demonstration Validation Procedure**

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

**Configuration Validated**

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 <b>(Optional: Use if not already powered up or logged in.)</b>		
A.1.	<b>Verify sysadmin Login</b>		
A.1.1.	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.1.2.	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.1.3.	In the "Please enter your password" text box type the password for the sysadmin account and press [RETURN].	An Informational Message dialog box opens confirming that COE login processing is complete.	Setup

Step	Operator Action	Expected Result	Observed Result
A.1.4.	Click: OK	The dialog box closes. The menu bar, security classification and CDE open.	Setup
<b>A.2.</b>	<b>Mount KPC Test Data. (Optional: Use if files not already NFS mounted.)</b>		
A.2.1.	On the <b>Validation Host</b> (kpchost): Select Applications > Application Manager > DII_APPS > SysAdm	The Application Manager - SysAdm window opens.	Setup
A.2.2.	Double-click: Disk Manager	The Disk Manager window opens.	Setup
A.2.3.	Select the row containing "/" in the Mounted On column.	The row is highlighted.	Setup
A.2.4.	Click: Export FS	The Export/Unexport File Systems dialog box opens.	Setup



Step	Operator Action	Expected Result	Observed Result
A.2.5.	In the options text box enter: rw=kpccp.kpc.disa.mil /kpc/www	A dialog box opens asking "Export this directory permanently? yes or no. If the dialog box is displayed as described above, the test step result is PASS, otherwise the test step result is FAIL.	Setup
A.2.6.	Click: Export	A confirmation dialog box appears asking if the directory should be exported permanently.	Setup
A.2.7.	Click: Yes	The dialog box closes. kpchost : /kpc is not displayed in the Disk Manager window.	Setup
A.2.8.	Click: Exit	If the file system appears as above, the test step result is PASS, otherwise the test step result is FAIL.	Setup
A.2.9.	On the <b>Candidate Platform</b> (kpccp): Select Applications > Application Manager > DII_APPS > SysAdm	The Application Manager - SysAdm window opens.	Setup
A.2.10.	Double Click: Disk Manager	The Disk Manager window opens.	Setup

Step	Operator Action	Expected Result	Observed Result
A.2.11.	Click: Mount New	The Mount File System dialog box opens.	Setup
A.2.12.	In the "FILE SYSTEM" text box enter: kpchost : /kpc/www In the "MOUNT POINT" text box enter: /kpc	kpchost : /kpc/www appears in the text box. If the text box appears as described above, the test step result is PASS, otherwise the test step result is FAIL.	Setup
A.2.13.	Click: MOUNT	A Confirmation dialog box opens asking if the directory should be mounted permanently.	Setup
A.2.14.	Click: Yes	The dialog box closes.	Setup
A.2.15.	Double-click: Disk Manager.	kpchost : /kpc appears in the Disk Manager window. If the file system appears as above, the test step result is PASS, otherwise the test step result is FAIL.	Setup

Step	Operator Action	Expected Result	Observed Result
A.3.	<b>Segmented Browser Installation (Optional: Install a Segmented Browser)</b>		
A.3.1.	Install an HTML 3.2, HTTP 1.0 web-browser on the Candidate Platform as part of the test suite, using vendor supplied documentation.  <b>Optional:</b> Installation is necessary only if a suitable browser is not provided as part of the application platform.	A browser is available for execution on the Candidate Platform.	Setup
<b>B.</b>	4.2 WWW Interoperability Demo Initiation		
<b>B.1.</b>	4.2.1.1.1.1 Initialize		
B.1.1.	Invoke the web browser application per the vendor instructions.	A web Browser window appears on the display.	Circle one: PASS/FAIL
B.1.2.	On the Candidate Platform open the following file in the Web Browser.  <p style="text-align: center;">/kpc/www/kpc_www.htm</p> Click:  OK	If the top level, KPC "World Wide Web Test Page" loads and displays as in attachment 1 the test result is PASS, otherwise the test result is FAIL.  Note: If the page appears as in attachment 2 then the browser fails to support the basic HTML markup tags.	Circle one: PASS/FAIL

Step	Operator Action	Expected Result	Observed Result
C.	4.3 BASIC HTML DATA TYPES		
C.1.	4.3.1.1.1 Numeric Character Codes		
C.1.1.	Under "Basic HTML Data Types", click on the link labeled "Numeric Character Codes".	The "ISO 8879-1 Numeric Character Codes Test Page" is loaded and displayed.	Circle one: PASS / FAIL
C.1.2.	Inspect the "Table of Numeric Character Codes". Each cell should be rendered as per attachment 3.  <b>EXCEPTION:</b> The first cell (code "0") and the fifth column (codes "128" through "159" inclusive) are not to be considered.	If the sample text is rendered as in attachment 3, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
C.1.3.	Click on the browser "Back" button to return to the top level WWW Test Page.	The top level KPC "World Wide Web Test Page" loads & displays.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
<b>C.2.</b>	<b>4.3.1.1.2 Character Entity References</b>		
C.2.1.	Under "Basic HTML Data Types", click on the link labeled "Character Entity References".	The "ISO 8879-1 Character Entity References Test Page" is loaded and displayed.	Circle one: PASS / FAIL
C.2.2.	Inspect the "Table of Character Entity References". The contents of the first two columns labeled "ER Glyph" and "NE Glyph" respectively, should be identical for all rows.  <b>Note:</b> The original data must be used for this test.	If the contents of the columns match as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
C.2.3.	Click on the browser "Back" button to return to the top level WWW Test Page.	The top level KPC "World Wide Web Test Page" loads & displays.	Circle one: PASS / FAIL
<b>C.3.</b>	<b>4.3.1.1.3 Color Model Support</b>		
C.3.1.	Under "Basic HTML Data Types", click on the link labeled "Color Model Support".	The "Color Model Support Test Page" is displayed.	Circle one: PASS / FAIL
C.3.2.	Inspect the table "Color Names and SRGB Values". The colors should appear as named, and the colors in the corresponding Name, Value and GIF image cells should match for each row.	If the contents match as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
C.3.3.	Click on the browser "Back" button to return to the top level WWW Test Page.	The top level KPC "World Wide Web Test Page" loads & displays.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
<b>D.</b>	<b>4.4 Text Display / Tag Handling</b>		
<b>D.1.</b>	<b>4.4.1.1.1 Document Structure Tags</b>		
D.1.1.	Under "Text Display/Tag Handling", click on the link labeled "Document Structure Tags".	The KPC "Document Structure Tags Test Page" loads and displays.	Circle one: PASS / FAIL
D.1.2.	Inspect the page. The page is displayed as a web page rather than as HTML source as in attachment 2 (see step B.1.2). If the page source is displayed as HTML source then the browser fails to support the basic HTML markup tags.	If the page is displayed as a web page, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.1.3.	Inspect the title of the document, which should be displayed as "KPC WWW Test - Document Structure Tags".	If the title of the document is displayed as described at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.1.4.	Inspect the Heading Element table, which should render the H1 element using style elements, which attract more attention (larger font, bold, italic text) than less important ones. Each successively higher numbered header should be rendered so as to attract less attention.	If the header elements are displayed as described at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.1.5.	Click on the browser "Back" button to return to the top level WWW Test Page.	The top level KPC "World Wide Web Test Page" loads & displays.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
<b>D.2.</b>	<b>Body Element Tags</b>		
D.2.1.	Under “Text Display/Tag Handling”, click on the link labeled “Body Element Tags”.	The KPC “Body Element Tag Test Page” loads and displays.	Circle one: PASS / FAIL
D.2.2.	<b>Under Structured Text Tags</b>		
D.2.3.	Under the “Phrase Elements” header, inspect the text samples for “ <i>emphasis</i> ” and “ <b>strong</b> ” phrase types, which are generally rendered as italic and bold font, respectively	If phrase types “emphasis” and “strong” are rendered to differentiate them from normal text, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.4.	Inspect the text samples for “Code”, “Keyboard Input” and “Sample Output” phrase types, which are generally rendered using a mono-space font.	If phrase types “Code”, “Keyboard Input”, and “Sample Output” are rendered to differentiate them from normal text, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.5.	Inspect the text samples for “ <i>Variable</i> ” and “ <i>Citation</i> ” phrase types, which are generally rendered as italic text.	If phrase types “ <i>Variable</i> ” and “ <i>Citation</i> ” code types are rendered to differentiate them from normal text, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.6.	Inspect the text samples for “Abbreviation” and “Acronym” phrase types, which are used to demarcate text for tools and generally rendered as normal text.	If phrase types “Abbreviation” and “Acronym” are rendered as normal text, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.7.	Under the “Quotations” header, inspect the sample <BLOCKQUOTE> text, which is generally rendered as an indented block of text.	If quoted text is rendered as described at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
D.2.8.	Under the "Subscripts and Superscripts" header, inspect the sample superscript ("123 Superscript") and subscript ("456 Subscript") text, which is generally rendered as text shifted slightly above and below the normal text, respectively.	If Subscript and Superscript text is rendered slightly above and below normal text, the test result is PASS, otherwise the test result is FAIL	Circle one: PASS / FAIL
D.2.9.	Under the " <b>Font Styles</b> " header, inspect the sample "teletype" text, which is generally rendered using a monospace font.	If teletype sample text is rendered in a monospace font, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.10.	Inspect the sample " <i>italic</i> " text.	If font style text sample <i>italic</i> is rendered in as <i>italic</i> text, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.11.	Inspect the sample " <b>bold</b> " text.	If font style text sample <b>bold</b> is rendered in as <b>bold</b> text, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.12.	Inspect the sample "Big" and "Small" text, and compare to the "normal text" sample in the table.	If the "Big" and "Small" font style text samples are rendered in as larger and smaller than normal text respectively, the test result is PASS otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.13.	Inspect the sample "Strike and <S>" text.	If <b>Strike</b> and <S> font styles are rendered as <del>Strike through</del> text, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.14.	Inspect the sample "underline" text.	If font style text sample underline is rendered in as <u>underline</u> text, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL



Step	Operator Action	Expected Result	Observed Result
D.2.15.	<b>Under Lines and Paragraphs</b>		
D.2.16.	Under the "Paragraphs", header, inspect the indented text. The text sample should be divided into two paragraphs separated by white-space.	If the sample text is rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.17.	Under the "Line Breaks", header, inspect the indented text. The two lines in the indented text sample should appear on separate lines starting at the left margin.	If the sample text is rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.18.	Under the "Preformatted Text", header, inspect the preformatted text example. The sample text should appear as a symmetric pyramid shape.	If the sample text is rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.19.	<b>Under Alignment and Horizontal Rules</b>		
D.2.20.	Under the "Alignment", header, inspect the aligned text example. Sample text should be left, right, and center aligned on successive lines.	If the sample text is rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.21.	Under the "Horizontal Rules", header, inspect the horizontal rule examples. Half width horizontal rules should be left, right, and center aligned on successive lines, followed by a full width horizontal rule.	If the horizontal rules are rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.2.22.	Click on the browser "Back" button to return to the top level WWW Test Page.	The top level KPC "World Wide Web Test Page" loads & displays.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
<b>D.3.</b>	<b>List Tags</b>		
D.3.1.	Under "Text Display/Tag Handling", click on the link labeled "List Tags".	The "List Tags Test Page" loads & displays.	Circle one: PASS / FAIL
D.3.2.	Under the "Unordered List" header, inspect the three unordered list examples. The lists should be rendered as vertical lists, with disc, circle, and square bullet types, and should not be numbered.	If the bullet types for the three lists are rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.3.3.	Under the "Ordered List" header, inspect the default ordered list example. The list should be rendered as a vertical list, numbered with the lowest number on top.	If the default ordered list is rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.3.4.	Under the "Ordered List" header, inspect the five numbering style samples. The lists should be rendered in step D.3.3 above, except that they are labeled with lower case alpha, upper case alpha, lower case roman and upper case roman numerals, respectively.	If the five alternate numbering style samples are rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.3.5.	Under the "Definition List" header, inspect the Definition list example. The term being defined is on a line, with the definition on the line following the term. The definition is indented.	If the definition list is rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.3.6.	Under the "Nested List" header, inspect the sample "nested list". The lists should be rendered as shown in attachment 4. The indentation and ordered/unordered item types should correspond with the attachment.	If the nested list is rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
D.3.7.	Under the "DIR and Menu Elements" header, inspect the two unordered list examples. The lists should be rendered as vertical lists, and should not be numbered.	If the DIR and Menu Elements are rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.3.8.	Click on the browser "Back" button to return to the top level WWW Test Page.	The top level KPC "World Wide Web Test Page" loads & displays.	Circle one: PASS / FAIL
<b>D.4.</b>	<b>Table Tags</b>		
D.4.1.	Under "Text Display/Tag Handling", click on the link labeled "Table Tags".	The KPC "Table Tag Test Page" loads and displays.	Circle one: PASS / FAIL
D.4.2.	Under the "Sample Basic Table with Captions" header, inspect the sample table. A 3x3 table with text aligned in each block should be rendered as in attachment 5.	If the "Sample Basic Table with Captions" is rendered as indicated at left, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.4.3.	In the table "Sample Table with Vertical Cell that Spans Rows", compare the left and right sample tables with the GIF image in the center. The left and right tables should be rendered to reflect the basic cell organization shown in the center GIF image. The GIF image is included in attachment 6.	If the left and right tables are rendered to reflect the basic cell organization shown in the center GIF image, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
D.4.4.	In the table "Sample Table with Horizontal Cell that Spans Columns", compare the left and right sample tables with the GIF image in the center. The left and right tables should be rendered to reflect the basic cell organization shown in the center GIF image. The GIF image is included in attachment 6.	If the left and right tables are rendered to reflect the basic cell organization shown in the center GIF image, the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
D.4.5.	Click on the browser “Back” button to return to the top level WWW Test Page.	The top level KPC “World Wide Web Test Page” loads & displays.	Circle one: PASS / FAIL
<b>E.</b>	<b>4.5 MULTI-MEDIA SUPPORT</b>		
<b>E.1.</b>	<b>Graphical Data Formats</b>		
E.1.1.	<p>Under “Multimedia Support”, click on the link labeled “Graphical Data Format”.</p> <p><b>Note:</b> This page contains several images, each containing a test pattern (see attachment 7) stored in a specific graphical format. Image formats included are GIF, JPEG, PNG, TIFF, PCX and BMP</p>	The KPC “Graphical Data Format Test Page” loads and displays.	Circle one: PASS / FAIL
E.1.2.	Inspect the page. Image formats supported should appear with a label “<Format> Format Rendered”. For any image not supported, a text string appears indicating “<Format> not Rendered”.	If the GIF and JPEG formats are supported then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
E.1.3.	Click on the browser “Back” button to return to the top level WWW Test Page.	The top level KPC “World Wide Web Test Page” loads & displays.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
<b>E.2.</b>	<b>Image Map Graphics Support</b>		
E.2.1.	Under "Multimedia Support", click on the link labeled "Image Map Graphics".	The KPC "Image Map Test Page" loads and displays.	Circle one: PASS / FAIL
E.2.2.	<p>A GIF test pattern image will appear as in attachment 7. Click on each quarter of the main square, labeled "Red", "Green", "Blue", or "Texture" in turn.</p> <p>For each quarter selected, a more detailed GIF image of that quarter (see attachment 8) should appear. Click on the browser "Back" button to return to the "Image Map Test Page".</p>	If the detailed image for each quarter appears in turn as indicated at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
E.2.3.	Click on the browser "Back" button to return to the top level WWW Test Page.	The top level KPC "World Wide Web Test Page" loads & displays.	Circle one: PASS / FAIL
<b>E.3.</b>	<b>Visual Presentation of Images</b>		
E.3.1.	Under "Multimedia Support", click on the link labeled "Visual Presentation of Images".	The KPC "Visual Presentation of Images Test Page" loads and displays.	Circle one: PASS / FAIL
E.3.2.	Inspect bullet item 1 on the page. The three test pattern images should be followed by text that is aligned with the Top, Middle, and Bottom of the images, respectively.	If the text following the images is aligned as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
E.3.3.	Inspect bullet item 2 on the page. The image should be aligned on the right margin with a solid border. Text should be wrapped around the image on the left side of the image.	If the image and text are rendered as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
E.3.4.	Inspect bullet item 3 on the page. The image should be aligned on the left margin with no border. Text should be wrapped around the image on the right side of the image. The image should be approximately half the size of the image in step E.3.3.	If the image and text are rendered as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
E.3.5.	Click on the browser “Back” button to return to the top level WWW Test Page.	The top level KPC “World Wide Web Test Page” loads & displays.	Circle one: PASS / FAIL
<b>F.</b>	<b>4.6 FORMS &amp; SCRIPT SUPPORT</b>		
<b>F.1.</b>	<b>Input Elements</b>		
F.1.1.	Under “Forms and Script Support”, click on the link labeled “Input Elements”.	The KPC “Forms – Input Element Test Page” loads and displays.	Circle one: PASS / FAIL
F.1.2.	Inspect the table cell under the title “Text Control Type”. A single line text field should appear under the text “Input Name” containing the initial string “your name”.	If the text field is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.3.	Modify the text field specified in step F.1.2 by selecting the word “your”, and substituting the word “my” in its place.	If the text field can be manipulated as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.4.	Inspect the table cell under the title “Password Control Type”. A single line text field should appear under the text “Input Password” with no initial contents.	If the password field is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.1.5.	Modify the password field specified in step F.1.4 by selecting the field, and typing the characters "fullback_4". The input text should be rendered in such a way as to obscure the characters (e.g. an asterisk for each character entered).	If the password field can be manipulated as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.6.	Inspect the table cell under the title "Checkbox Control Type". Two items (Right, Left) should appear under the text "Input Right/Left Handed:" with "Right" as the initial selection.	If the Checkbox field is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.7.	Modify the Checkbox field specified in step F.1.6 by selecting the "Left" item. A visual indication that the "Left" item has been selected should be apparent, and the "Right" item should continue to be selected.	If the Checkbox field can be manipulated as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.8.	Inspect the table cell under the title "Radio Control Type". A set of three items (Red, Green, Blue) should appear under the text "Input Preferred Color:" with "Red" as the initial selection.	If the radio field is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.9.	Modify the radio field specified in step F.1.8 by selecting the "Blue" item. A visual indication that the "Blue" item has been selected should be apparent, and the "Red" item should no longer be selected.	If the radio field can be manipulated as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.1.10.	Inspect the table cell under the title "File Control Type". A single line text field should appear under the text "File to Submit:" with no initial contents. A file browser button should be associated with the file field.	If the file field and browser button are displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.  Note: The Initial field contents do not appear as specified, and this criterion is waived. All other criteria continue to be required.	Circle one: PASS / FAIL
F.1.11.	Select the file field specified in step F.1.10 and modify the filename to "*.asc". Click the "browse" button to invoke a file browser and select the file:  "/kpc/WWW/*.html".	If the file field and file browser can be manipulated as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.12.	Inspect the table cell under the title "Reset Control Type". Two buttons, labeled "Reset: New Data" and "Reset: Error" respectively, should appear under the text select "Reset New Data".	If the Reset control is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.13.	Inspect the table cell under the title "Hidden Control Type". A single line of text "Hidden Control:" with no other features rendered in the cell. No manipulation of features within the cell should be allowed.	If the Hidden field is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.14.	Inspect the table cell under the title "Image Control Type". A button with the test pattern on it should appear under the text "Click Image to Submit Form:"	If the Image control is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL



Step	Operator Action	Expected Result	Observed Result
F.1.15.	Click on the image control specified in step F.1.13. A notification should be displayed that the form has been submitted.	If the clicking the image control has the effect specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.16.	Inspect the table cell under the title "Submit Control Type". Two buttons, labeled "Submit email" and "Submit File Xfer" respectively, should appear under the text "Choose Submission Method:".	If the Submit control is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.17.	Click on the "Submit email" control specified in step F.1.15. A notification should be displayed that the form has been submitted.	If the clicking the image control has the effect specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.18.	<p>Click on the "Reset: New Data" control specified in step F.1.17. All of the controls should resume their default state.</p> <p>Specifically, the controls would display the following contents:</p> <ol style="list-style-type: none"> <li>1. Text type: "your name"</li> <li>2. Password type: &lt;blank&gt;</li> <li>3. Checkbox type: "Right handed"</li> <li>4. Radio type: "Red"</li> <li>5. File type: "sample_data.dat"</li> </ol>	<p>If the clicking the reset control has the effect specified at left, then the test result is PASS, otherwise the test result is FAIL.</p> <p>Note: The file field contents do not appear as specified, and this criterion is waived. All other criteria continue to be required.</p>	Circle one: PASS / FAIL

<b>Step</b>	<b>Operator Action</b>	<b>Expected Result</b>	<b>Observed Result</b>
F.1.19.	Click on the browser “Back” button to return to the top level WWW Test Page.	The top level KPC “World Wide Web Test Page” loads & displays.	Circle one: PASS / FAIL
F.1.20.	Log onto the Validation Host as sysadmin, and open an xterm window.	The xterm displays a system prompt.	Circle one: PASS / FAIL
F.1.21.	On the Validation Host, at the xterm system prompt, open an email program by typing “mailx”.	The xterm displays an email prompt	Circle one: PASS / FAIL
F.1.22.	On the Validation Host, at the email prompt, type “h” to verify receipt of the email from the candidate platform.	The headers for the two messages should appear on the xterm, followed by an email prompt.	Circle one: PASS / FAIL
F.1.23.	On the Validation Host, at the email prompt, type “p” to print the messages, and compare them to attachment 9.  The bodies of both messages should be identical to the attachment. Note: The message header is not relevant to this test.	If the bodies of both messages are identical to the attachment, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.1.24.	On the Validation Host, at the email prompt, type “d” to delete both email messages. Type “h” to confirm that the messages have been deleted.	The headers for the two messages should be gone from the xterm, followed by an email prompt.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.2.	<b>Selection Elements</b> <b>Note: The following steps should be performed on the Candidate Platform, unless otherwise noted.</b>		
F.2.1.	Under "Forms and Script Support", click on the link labeled "Selection Elements".	The KPC "Forms – Selection Element Test Page" loads and displays.	Circle one: PASS / FAIL
F.2.2.	Under "Single Selection without Default" heading, inspect the selection element.  Three items should be available for selection; "Red", "Green", and "Blue". The "Red" item is visible, but no item should initially be selected.	If the indicated "select" control is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.2.3.	Click the "Red" item on the selection element identified in step F.2.2. A visual indication that the "Red" item has been selected should be apparent.	If clicking the "Red" item has the effect specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.2.4.	Click the "Blue" item on the selection element identified in step F.2.2. A visual indication that the "Blue" item has been selected should be apparent, and the "Red" item should no longer be selected.	If clicking the "Blue" item has the effect specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.2.5.	Under "Single Selection with Default Item Pre-Selected" heading, inspect the selection element. Five items should be initially visible, with a total of nine available for selection. The list of items should include nine planets. A visual indication that the "Earth" item has been selected as the default should be apparent.	If the indicated "select" control is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.2.6.	Click the "Mars" item on the selection element identified in step F.2.2. A visual indication that the "Mars" item has been selected should be apparent and the "Earth" item should no longer be selected.	If clicking the "Mars" item has the effect specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.2.7.	Under "Multiple Selections with Multiple Defaults" heading, inspect the selection element which includes a list of metals.  All eight items should be initially visible, and available for selection. A visual indication that the "Copper", "Iron", and "Titanium" items have been selected as the defaults should be apparent. The "Aluminum", "Tungsten", Lead, Magnesium", and "Zinc" items should not be selected.	If the indicated "select" control is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.2.8.	Select the "Lead", and "Magnesium" items on the selection element identified in step F.2.7. A visual indication that the "Lead", and "Magnesium" items have been selected should be apparent and the other items should remain selected.	If selecting the "Lead" and "Magnesium" items has the effect specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.2.9.	Click on the "Submit Query" control at the bottom of the page. A notification should be displayed that the form has been submitted.	If the clicking the "submit" control has the effect specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.2.10.	On the Validation Host, at the email prompt, type "h" to verify receipt of the email from the candidate platform.	The headers for a message should appear.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.2.11.	<p>On the Validation Host, at the email prompt, type "p" to print the message, and compare it to attachment 9.</p> <p>The body of the message should be identical to the attachment.</p> <p>Note: The message header is not relevant to this test.</p>	If the body of the message is identical to the attachment, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.2.12.	On the Validation Host, at the email prompt, type "d" to delete the email message. Type "h" to confirm that the message has been deleted.	The header for the message should be gone from the xterm, followed by an email prompt.	Circle one: PASS / FAIL
F.2.13.	On the Candidate Platform in the browser window, click on the browser "Back" button to return to the top level WWW Test Page.	The top level KPC "World Wide Web Test Page" loads & displays.	Circle one: PASS / FAIL
<b>F.3.</b>	<b>Text Area Elements</b>		
F.3.1.	Under "Forms and Script Support", click on the link labeled "Text Area Elements".	The KPC "Forms – Text Area Element Test Page" loads and displays.	Circle one: PASS / FAIL
F.3.2.	Inspect the text area element labeled "Read/Write Text Area". The text area should display 4 rows by 40 characters. The text area should initially contain the text "This text is default input." followed by 4 rows of 41 numeric characters.	If the indicated "text area" control is displayed as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
F.3.3.	Since the sample text exceeds the window length, some means to scroll the window vertically and horizontally should be apparent. As an alternative, the browser may wrap text lines to keep long lines visible with the need for scrolling.	If the indicated “text area” control scroll method (or word wrap) is displayed and operates as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.3.4.	Modify the text area specified in step F.3.3 by selecting the word “default”, and substituting the word “modified” in it’s place. Also delete the 4 rows of 41 numeric characters in the text area.	If the text field can be manipulated as specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.3.5.	Click on the “Submit query” control at the bottom of the page. A notification should be displayed that the form has been submitted.	If the clicking the “submit” control has the effect specified at left, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.3.6.	On the Validation Host, at the email prompt, type “h” to verify receipt of the email from the Candidate Platform.	The header for a message should appear.	Circle one: PASS / FAIL
F.3.7.	<p>On the Validation Host, at the email prompt, type “p” to print the message, and compare it to attachment 9.</p> <p>The body of the message should be identical to the attachment.</p> <p>Note: The message header is not relevant to this test.</p>	If the body of the message is identical to the attachment, then the test result is PASS, otherwise the test result is FAIL.	Circle one: PASS / FAIL
F.3.8.	On the Validation Host, at the email prompt, type “d” to delete the email message. Type “h” to confirm that the message has been deleted.	The header for the message should be gone from the xterm, followed by an email prompt.	Circle one: PASS / FAIL

<b>Step</b>	<b>Operator Action</b>	<b>Expected Result</b>	<b>Observed Result</b>
F.3.9.	On the Validation Host in the xterm window, terminate the mail program by typing <CTRL>D.	The xterm returns a system prompt.	Circle one: PASS / FAIL
F.3.10.	Log off of the Validation Host.	A login screen appears on the Validation Host display.	Circle one: PASS / FAIL
F.3.11.	On the Candidate Platform in the browser window, click on the browser “Back” button to return to the top level WWW Test Page.	The top level KPC “World Wide Web Test Page” loads & displays.	Circle one: PASS / FAIL
F.3.12.	On the Candidate Platform, terminate the browser program.	The browser window disappears.	Circle one: PASS / FAIL

Step	Operator Action	Expected Result	Observed Result
<b>Z.</b>	4.7 Logout <b>(Optional: Use if no further validation is to be done.)</b>		
<b>Z.1.</b>	<b>Unmount the KPC Test Data</b>		
Z.1.1.	Unmount the KPC Test Data on the Candidate Platform enter:  umount /kpc	A message confirms that the filesystem has been dismounted.	Cleanup
<b>Z.2.</b>	<b>DeInstall Segmented Browser (Optional: If a Segmented Browser is installed)</b>		
Z.2.1.	DeInstall an HTML 3.2, HTTP 1.0 web-browser on the Candidate Platform as part of the test suite, using vendor-supplied documentation.	A browser is available for execution on the Candidate Platform.	Cleanup
<b>Z.3.</b>	<b>Verify sysadmin Logout</b>		
Z.3.1.	Log out of the Candidate Platform as sysadmin.	The menu bar, security classification and CDE desktop appear.	Shutdown
Z.3.2.	Click the EXIT button on the CDE menu bar:  EXIT	Logout confirmation window appears.	Shutdown



<b>Step</b>	<b>Operator Action</b>	<b>Expected Result</b>	<b>Observed Result</b>
Z.3.3.	Click:  OK	The system exits and the COE login screen appears.	Shutdown

*End of Test Validation Procedure*