Section 508 Compliance Test Report
Department of Homeland Security (DHS)
Office of Accessible Systems & Technology (OAST)

Product Review Information

Requestor Component: HQ	**Review Date:** 11/3/2014
Application Name: Mozilla Firefox 31.1.1 ESR (CR - HSD LAN-A) **Application Version:** 31.1.1 **Vendor:** Mozilla	
URL/Product Type: COTS	**3.0 Test Results:** Not Compliant
Application Description: Internet browser	
Functions Tested: Web, Software	
Test Environment **Operating System:** Windows 7 **Browser:** N/A **Compatibility View:** N/A	**ACMS Ticket #:** 15-00280 **3.0 Trusted Tester(s):** Margaret Rasor **Trusted Tester ID#:** 300073 **Tester Component:** HQ

Applicable Section 508 Standards

1194.21 (Software Applications and Operating Systems), 1194.22 (Web-based Intranet and Internet Information and Applications), 1194.31 (Functional performance)

Review History

DHS Test Step	Section 508 Standard	Test Results
1.1 Keyboard Access	21(a), 21(c), 31(a), 31(b)	(11/3/2014) Review 1: NC

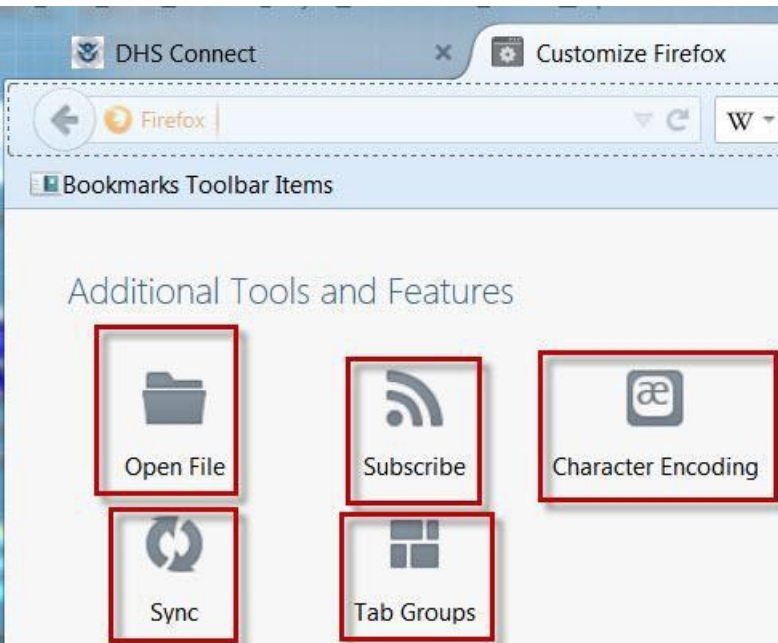|		
1.2.1 SW: All interactive elements	21(d)	(11/3/2014) Review 1: NC
1.2.2 Web: Forms	22(n)	(11/3/2014) Review 1: NC
1.2.3 Web: Links and User Controls	31(a), 31(b)	(11/3/2014) Review 1: NC
2.1 SW: Images	21(d)	(11/3/2014) Review 1: NC
3.1 Color Dependence	21(i)	(11/3/2014) Review 1: NC
3.2 Color Contrast	31(b)	(11/3/2014) Review 1: NC
10 Web: Data Tables	22(g)	(11/3/2014) Review 1: NC

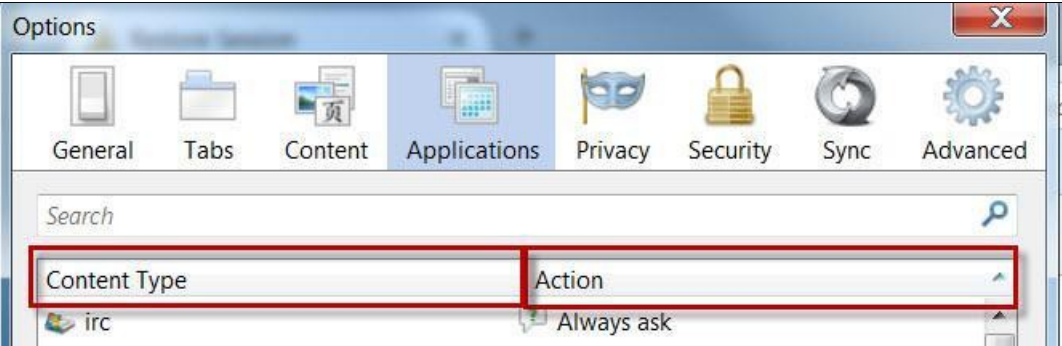| *Disabilities Impacted* |
|---|
| Due to the Section 508 compliance issues identified in this report, this product may impact people with the following disabilities: Blind, Low Vision, Mobility, Other. |

Comments
This application was tested according to DHS Section 508 Compliance Test Process for Applications, version 3.0. The test process is posted online at http://dhsconnect.dhs.gov/org/comp/mgmt/cio/oast/Documents/OAST_Training. (In Word report, ** before a failure condition means it was part of version 2.8 of the DHS Test Process.)

Section 508 Compliance Test Report

DHS Test	Description	Results
1.1 Keyboard Access	1194.21 (Software Applications and Operating Systems) a (Executing Function From Keyboard), c (Input Focus), 1194.31 (Functional performance) a (Blindness), b (Low vision) Baselines: B01, B02, B03, B04	NC
Example 1	A. **An interactive element or function cannot be accessed or activated by keyboard (21(a), B01) The icons on the Customize Firefox page are drag and drop and not accessible via the keyboard. The entire page is not accessible via the keyboard unless the mouse is used to place the cursor in the page. Location: From the browser menu, select View>Toolbars>Customize.	(11/3/2014) Review 1: NC
Example 2	A. **An interactive element or function cannot be accessed or activated by keyboard (21(a), B01)	(11/3/2014)

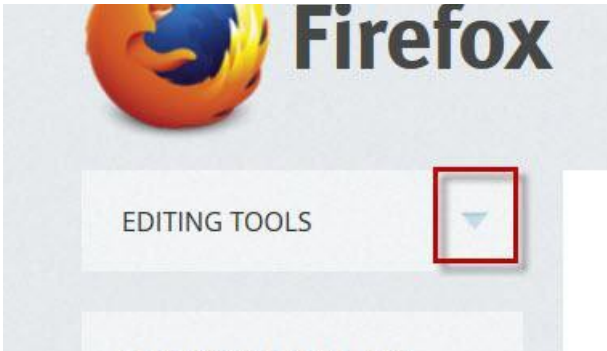|		
NC	There is a text box that has two columns of sortable data, the column headers are clickable buttons that can be used to sort but are not available via the keyboard. Location: From the menu select Tools>Options window>Applications tab.	Review 1: NC
Example 3	A. **An interactive element or function cannot be accessed or activated by keyboard (21(a), B01)	(11/3/2014) Review 1: NC
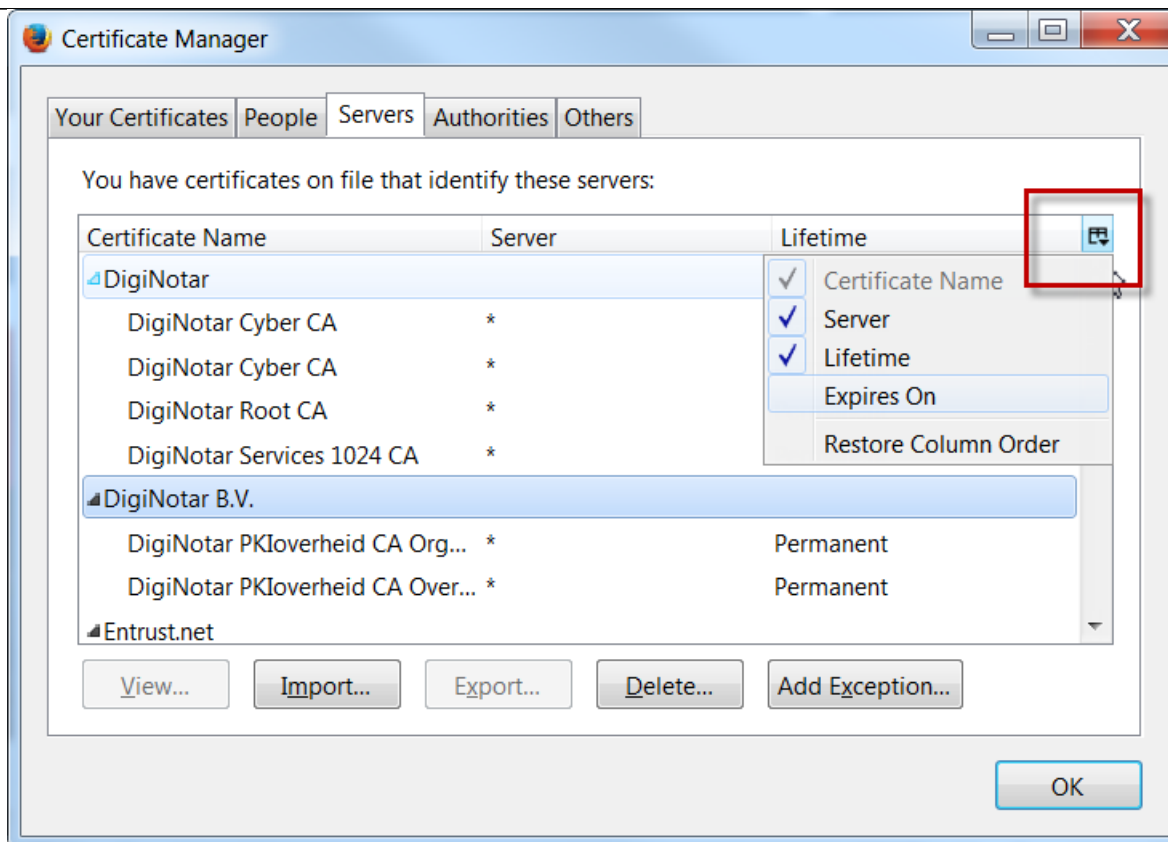
The Certificate Manager modal dialog has an icon for displaying a menu that allows the user to change the column order in the list, it is not accessible via the keyboard.
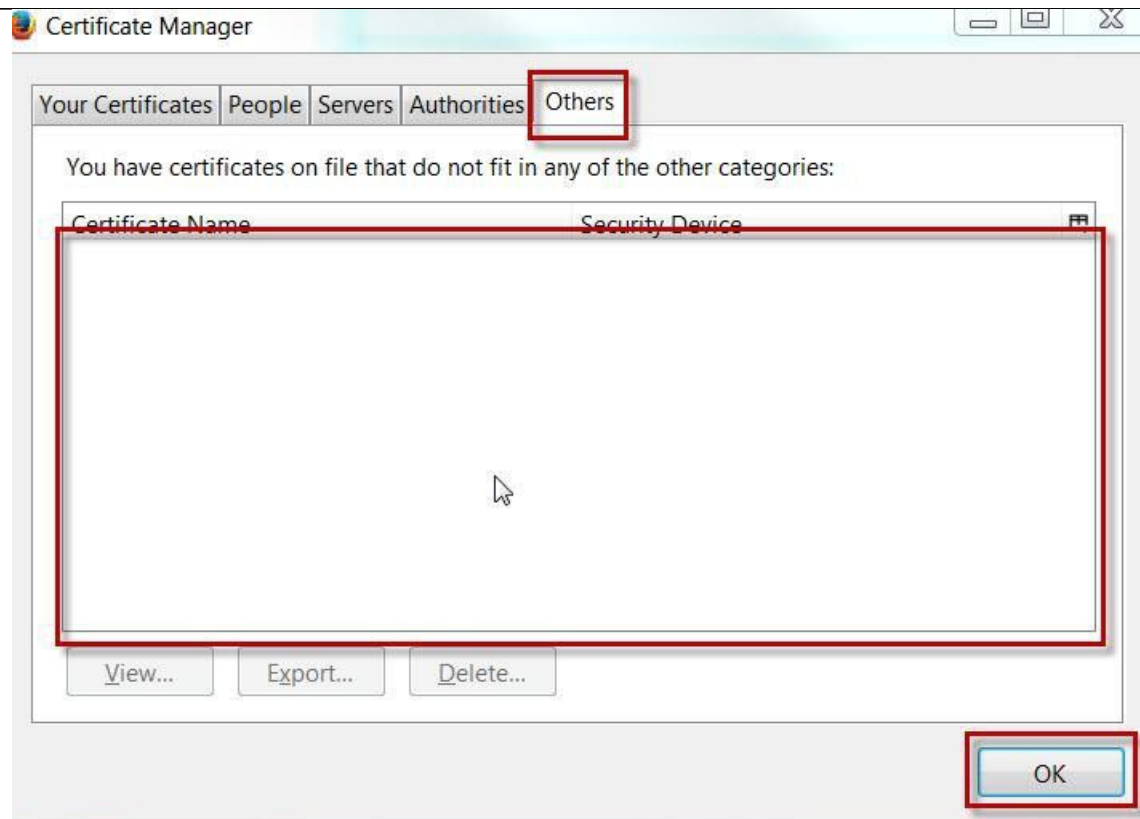
Location: From the browser menu select Tools>Options, from the Options window select the Advanced icon, then the Certificates tab. From the Certificates tab click the View Certificates pushbutton to display the Certificate Manager window.

| **Example 4** | A. **An interactive element or function cannot be accessed or activated by keyboard (21(a), B01) There is a global defect in any of the dialogs that are available from various menu items. Where any text box has column headings for a data table, that are interactive, they are not accessible via the keyboard. | (11/3/2014) Review 1: NC |

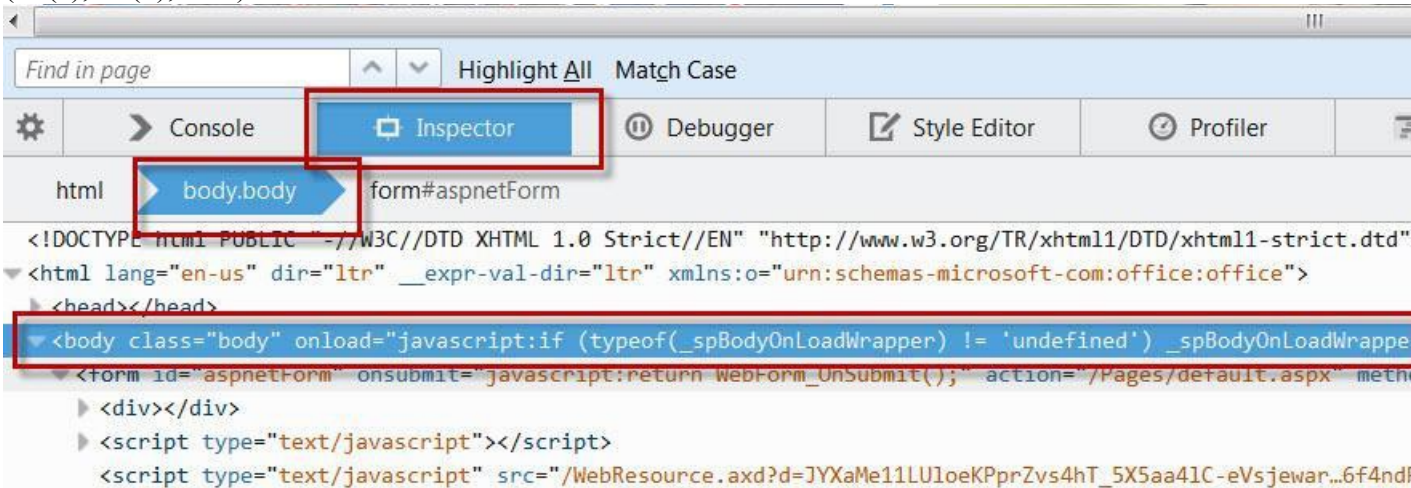| Example 5	A. **An interactive element or function cannot be accessed or activated by keyboard (21(a), B01)	(11/3/2014) Review 1: NC
	![Firefox Editing Tools dropdown icon highlighted] The Editing Tools drop down icon in the Keyboard Shortcuts page is not accessible via the keyboard. Location: From the browser menu select Help>Keyboard Shortcuts.	
Example 6	E. **At any time, there is no visual indication of the current focus (loss of focus) (21(c), B02)	(11/3/2014) Review 1: NC

In the Certificate Manager dialog window there are various tabs, all have a data table with columns that are sortable. When navigating using the keyboard, focus is lost between the tab and the buttons beneath the data table.
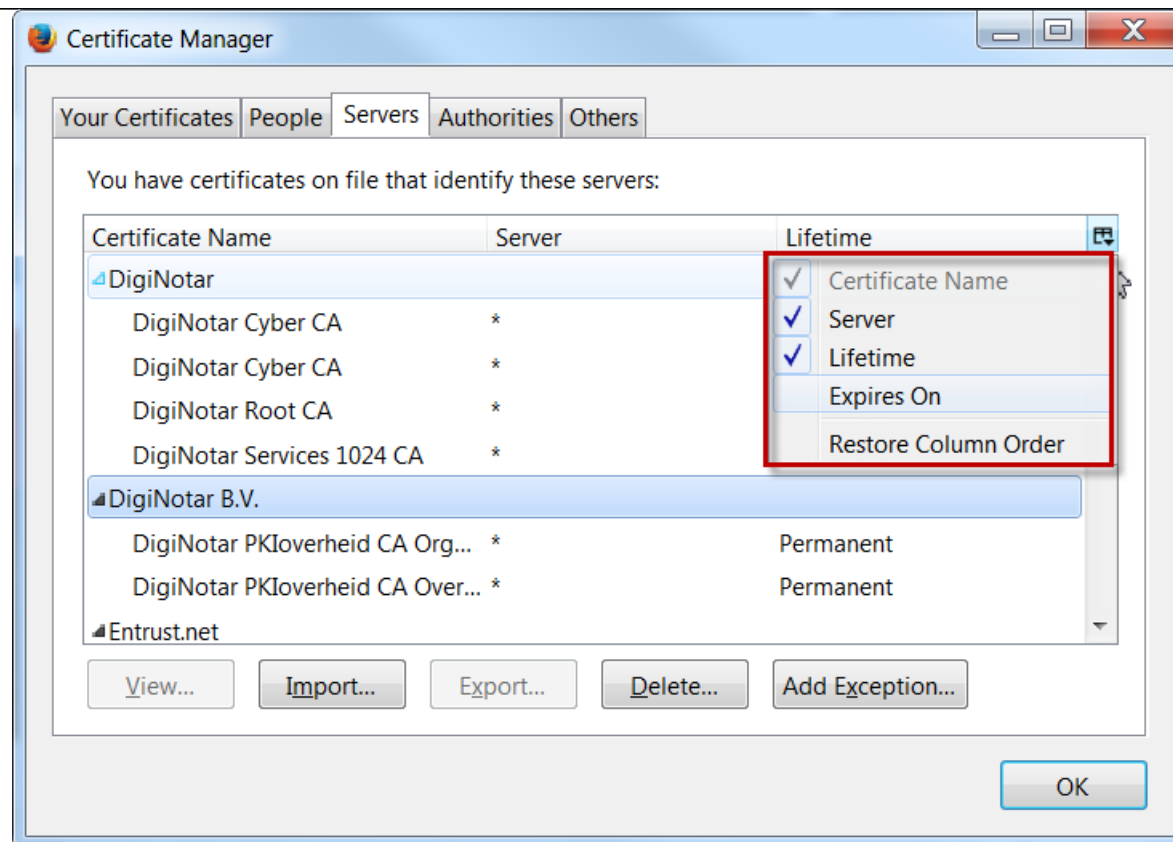
Location: From the browser menu, select Tools>Options. From the Options window click on the Advanced icon, then on the Certificates tab. From the Certificates tab, click on the View Certificates button. From the Certificates Manager window, select any tab.

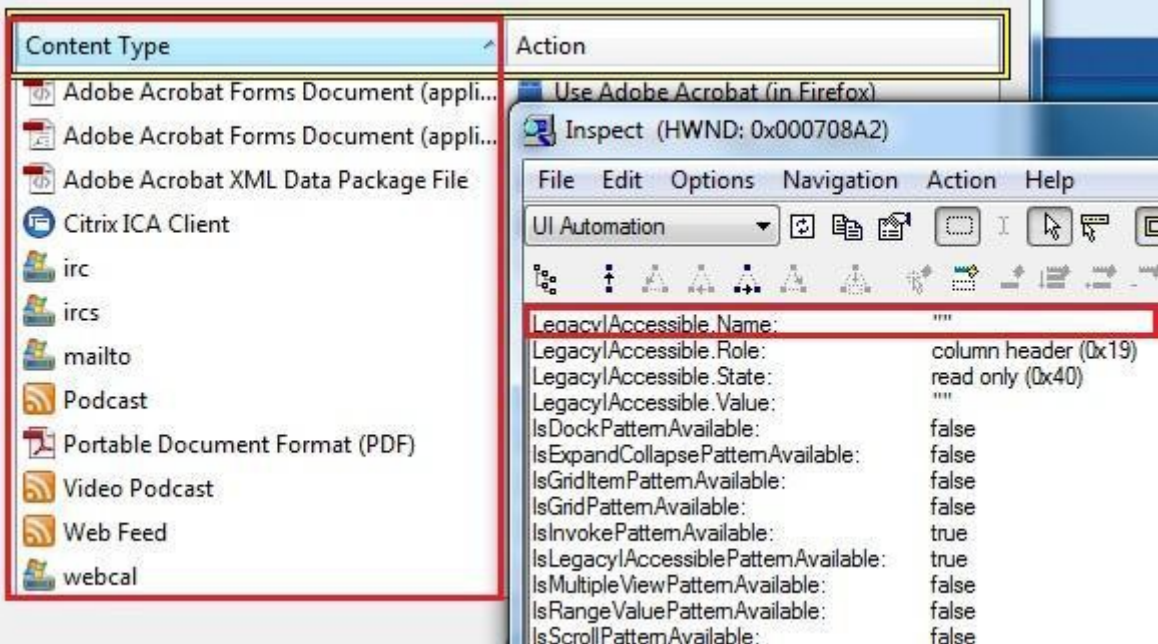| **Example 7** | E. **At any time, there is no visual indication of the current focus (loss of focus) (21(c), B02) | (11/3/2014) Review 1: NC |

In the Keyboard Shortcuts window the focus is lost after entering the Search Mozilla Support field. The Search icon is interactive but no focus appears.

From the browser menu, select Help>Keyboard Shortcuts and navigate to the Search Mozilla Support field.

| **Example 8**	H. The visual focus does not move to revealed content and no description of the content change is provided (31(a), 31(b), B04)	(11/3/2014) Review 1: NC
	When the user navigates to the Tools>Web Developer>Inspector, a pane is revealed on the bottom of the web page and it is not clear where focus is as three different areas appear to have focus.	
Example 9	H. The visual focus does not move to revealed content and no description of the content change is provided (31(a), 31(b), B04)	(11/3/2014) Review 1: NC

The Certificate Manager modal dialog has a column sort order icon that has a popup that appears when the icon is clicked. Focus does not move to the popup when it revealed and it cannot be accessed via the keyboard unless the user first uses the mouse.

Location: From the menu select Tools>Options, from the Options window select the Advanced icon>then the Certificates tab. From the Certificates tab click the View Certificates pushbutton to display the Certificate Manager window.

| 1.2.1 SW: All interactive | 1194.21 (Software Applications and Operating Systems) d (Interface Elements), f (Textual Information), l (Electronic Forms) Baselines: B06, B11, B16 | NC |

elements		
Example 1	A. **A user control does not have a descriptive and unique Name property (21(d), B16) The Options>Applications window has a table with two column headers that are clickable buttons that can be used to sort the contents of the table. The Name for Content Type column header is "". Location: From the browser menu select Tools>Options, then click on the Applications icon.	(11/3/2014) Review 1: NC
Example 2	B. **A user control has an incorrect Role and/or State (21(d), B16)	(11/3/2014) Review 1: NC
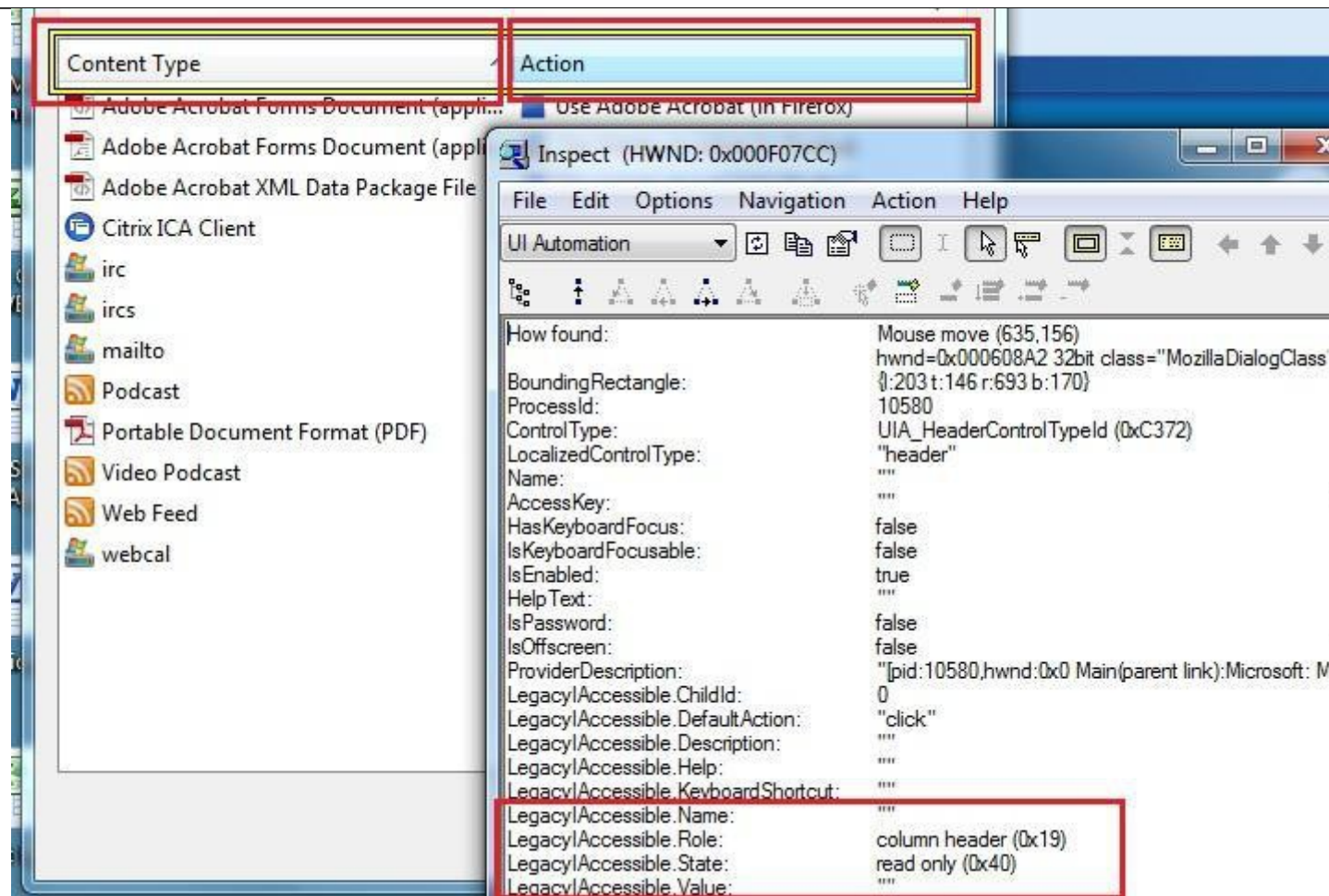
The Options>Applications window has a table with two column headers that are clickable buttons that can be used to sort the contents of the table. The Role and State are incorrect. Role should be "push button" and State should be "focused, pressed".

Location: From the browser menu select Tools>Options, then click on the Applications icon.

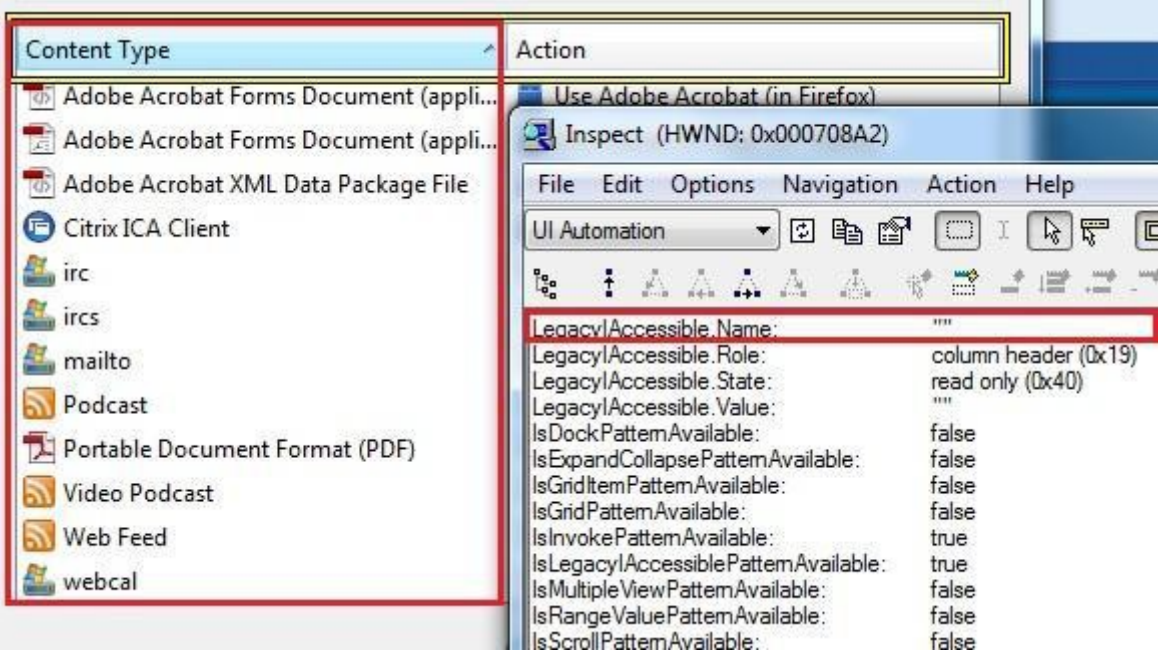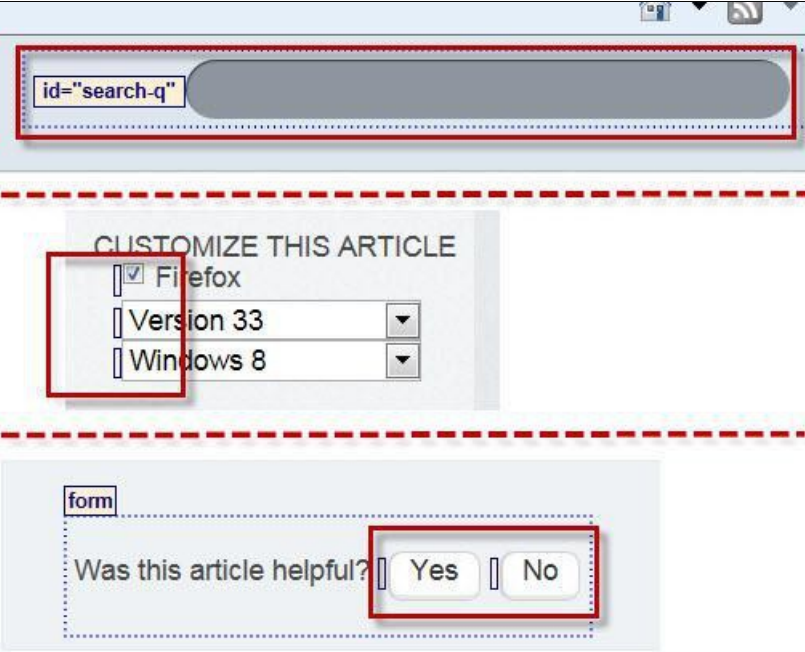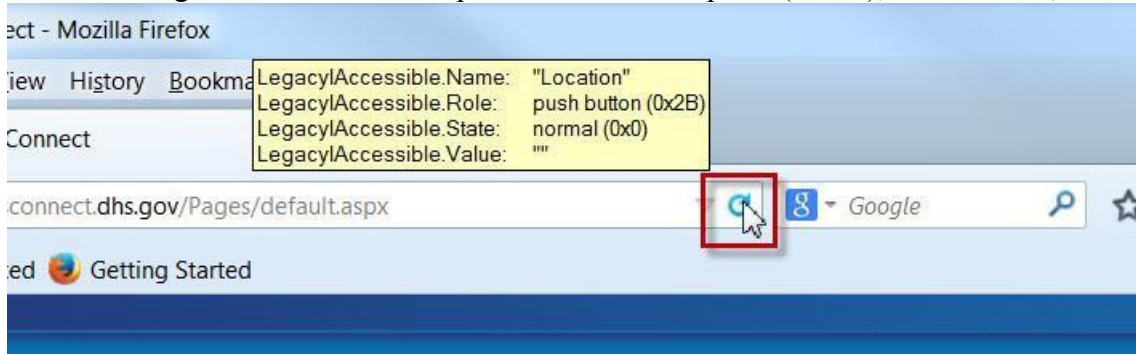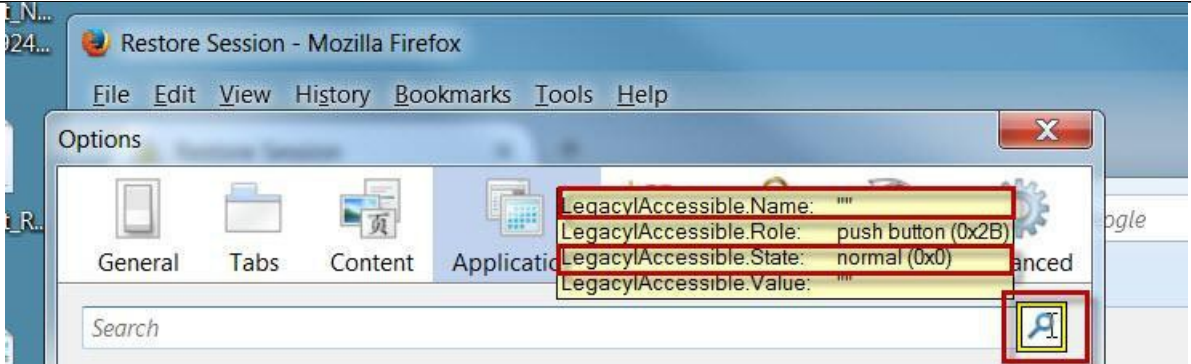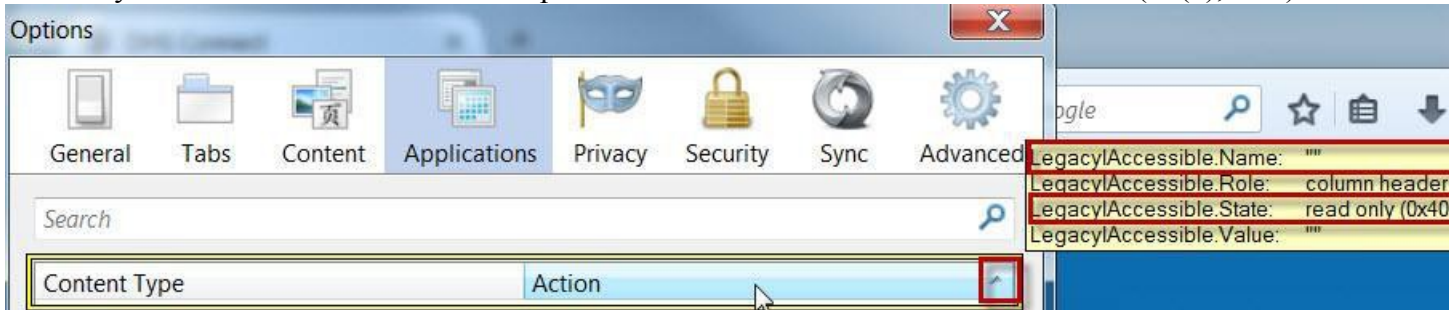| **Example 3** | C. An interactive interface element that has multiple statuses does not indicate its current status (21(d), B06) | (11/3/2014) |
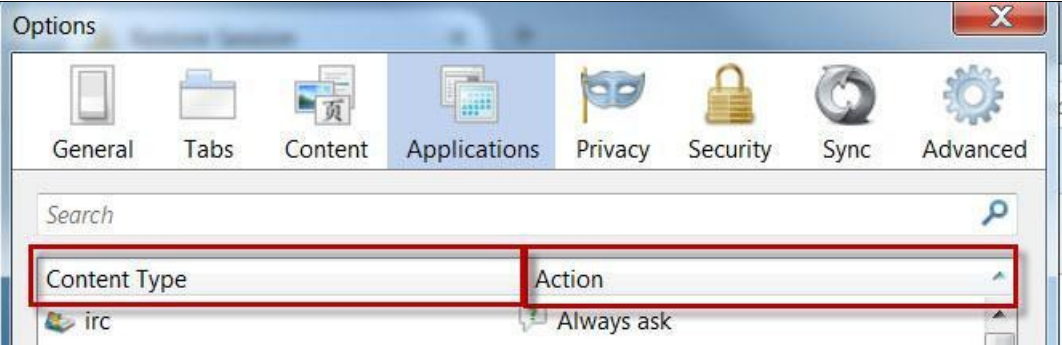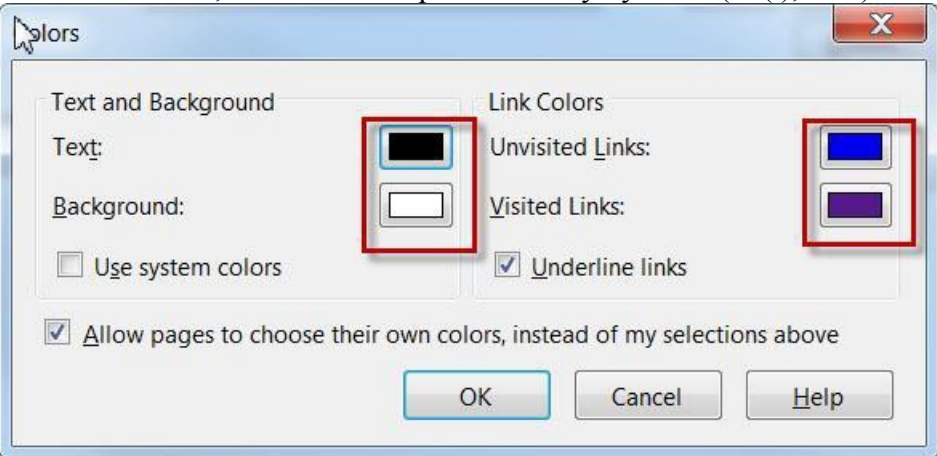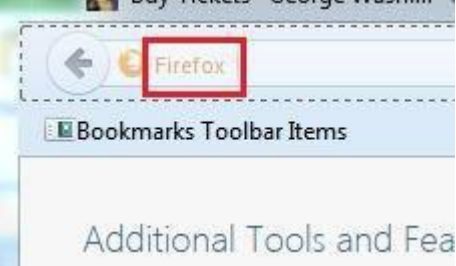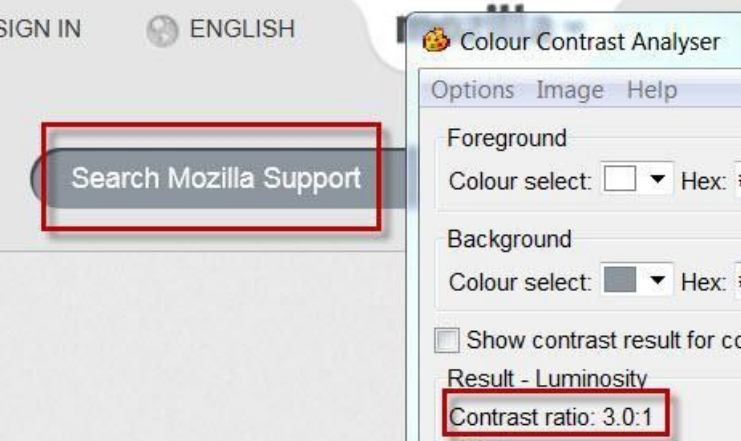
		Review 1: NC
NC	 The Options>Applications window has a table with two column headers that are clickable buttons that can be used to sort the contents of the table either A-Z or Z-A. There is no indication of the sort order in the Name attribute. Location: From the browser menu select Tools>Options, then click on the Applications icon.	
1.2.2 Web: Forms	1194.22 (Web-based Intranet and Internet Information and Applications) n (Form Labels) Baselines: B11	NC
Example 1	A. **A Web form field has no markup to associate it to its complete instructions and cues (22(n), B11)	(11/3/2014) Review 1: NC

The Search Mozilla Support field has ID but no Label/For. The Customize this Article section Firefox checkbox and drop down menus do not have valid Label/For and ID. The Was this article helpful Yes and No buttons do not have valid Label/For and ID.

Location: From the browser menu select Help>Keyboard Shortcuts.

1.2.3 Web: Links and User Controls	1194.22 (Web-based Intranet and Internet Information and Applications) l (Script Functional Text), 1194.31 (Functional performance) a (Blindness), b (Low vision) Baselines: B16	NC
Example 1	A. A link does not have a unique and meaningful description (31(a), 31(b), B16)	(11/3/2014) Review 1: NC

	  There is a URL that does not have a meaningful title and a link that says "find out how" that is not meaningful. There is no TITLE attribute for either of them.	
2.1 SW: Images	1194.21 (Software Applications and Operating Systems) d (Interface Elements), e (Bitmap Images) Baselines: B06, B07, B13, B14	NC
Example 1	A. **An image does not have an equivalent text description (Name), correct Role, or correct State (21(d), B07) The Reload Current Page icon on the address bar has a correct tooltip but Name attribute is "Location" which is also the name of the icon to the left of it.	(11/3/2014) Review 1: NC
Example 2	A. **An image does not have an equivalent text description (Name), correct Role, or correct State (21(d), B07)	(11/3/2014) Review 1: NC

The Name and State for the Search icon in the Search textbox are incorrect. Location: From the menu select Tools>Options window>Applications tab.

Example 3	B. **Any interface element that has multiple statuses does not indicate its current status (21(d), B06) In the table, the Name and State for the both the Content Type and Action columns' headers do not display the current Name or State when sorted. The sort order is not described. NOTE: This is a global defect anywhere there is a table that allows the user to use the column headers to sort the table. Location: From the menu select Tools>Options window>Applications tab.	(11/3/2014) Review 1: NC
Example 4	C. **A data table's headers are not identified (21(d), B13)	(11/3/2014) Review 1: NC

	In the table, the Name for the both the Content Type and Action columns' headers is "". Location: From the menu select Tools>Options window>Applications tab.	
3.1 Color Dependence	1194.21 (Software Applications and Operating Systems) i (Color Coding), 1194.22 (Web-based Intranet and Internet Information and Applications) c (Color Dependence) Baselines: B08	NC
Example 1	A. **In software, information is provided only by color (21(i), B08) The Colors dialog has blocks of colors for Text and Background and Link Colors that are identified by color only. Location: From the browser menu, select Tools>Options. From the Options window select the Content icon,	(11/3/2014) Review 1: NC

	then click the Colors button to display the Colors dialog.	
3.2 Color Contrast	1194.31 (Functional performance) b (Low vision) Baselines: B09	NC
Example 1	A. The contrast ratio is less than 4.5:1 for content background and foreground colors (31(b), B09) Select the View menu>Toolbars>Customize, default text in the address bar is 1.77:1.	(11/3/2014) Review 1: NC
Example 2	A. The contrast ratio is less than 4.5:1 for content background and foreground colors (31(b), B09) The text inside the Search Mozilla Support field color ratio is 3.0:1. Location: From the browser menu select Help>Keyboard Shortcuts.	(11/3/2014) Review 1: NC
10 Web: Data Tables	1194.22 (Web-based Intranet and Internet Information and Applications) g (Data Table Headers), h (Complex Data Table Header-Cell Association) Baselines: B13, B14	NC
Example 1	A. **Any data table's row or column headers are not identified programmatically (22(g), B13)	(11/3/2014) Review 1: NC

Editing

[table]

[th] Command   [th] Shortcut

[td]   [td]
Copy   Ctrl + C

There are several tables on the Keyboard Shortcuts that do not have scoped header and row cells.

Location: From the browser menu, select Help>Keyboard Shortcuts.

This application was tested according to DHS Section 508 Compliance Test Process for Applications, version 3.0

DHS Specific Test Approaches

DHS specific test approach for Flashing (Baseline 10 and Section 508 [21k and 22j])

The term 'flickering' encompasses interface elements that flash, blink, flicker repetitively, or elements that scroll (e.g., marquee text).
Current Section 508 requirements do not permit elements to flash or flicker at frequencies between 2Hz and 55Hz. To incorporate the expected update to this requirement, this flashing test adopts the WCAG 2.0 frequency restriction to below 3Hz.
Due to factors that are not within the developer's control (such as the refresh frequency of a user's monitor, Internet speed, and other display factors), the frequency of a flashing item can be unpredictable from computer to computer. Given this uncertainty, the only specification that can be inspected is the programmed frequency of flashing items. Flashing elements that do not have a frequency property or attribute will be found not compliant.

How To Test
1. Visually check for any flashing or blinking interface elements or scrolling text. Scrolling images should be tested under Section 2.2 (SW animation) or Section 2.4 (video).
2. Determine if the flickering element is Software or Web.
3. Determine the programmatic frequency of the flickering element. This will often require viewing source code and/or contacting the developer. To view the source of a part of the page, highlight the section of the page using the mouse. Use WAT>Doc Info>View Partial Source.

DHS specific test approach for Variety of Color Selections in SW (Section 508 21j)

If an application adopted the OS high contrast colors, 21(g) and 21(j) are compliant per Baseline 28. If the application did not adopt the OS high contrast colors, 21(g) is not compliant. However, if the application offers its own color options, then 21(j) can be compliant.

Section 508 Test Results

21(a)	Executing Function From Keyboard	NC
21(b)	Accessibility Features	C
21(c)	Input Focus	NC
21(d)	Interface Elements	NC
21(e)	Bitmap Images	DNA
21(f)	Textual Information	C
21(g)	User Selected Attributes	C
21(h)	Animation	DNA
21(i)	Color Coding	NC
21(j)	Color Contrast Settings	C
21(k)	Flashing or Blinking Text	DNA
21(l)	Electronic Forms	C
22(a)	Text	C

	Equivalents	
22(b)	Multimedia: Captioning	DNA
22(c)	Color Dependence	C
22(d)	Style Sheet Dependence	C
22(e)	Server Side Image Map Text Links	DNA
22(f)	Use Client Side Image Maps	DNA
22(g)	Data Table Headers	NC
22(h)	Complex Data Table Header-Cell Association	DNA
22(i)	Frame Titles	DNA
22(j)	Flicker	DNA
22(k)	Text-only Alternative	DNA
22(l)	Script Functional Text	C
22(m)	Plug-In Links	DNA
22(n)	Form Labels	NC
22(o)	Skip Navigation	C
22(p)	Timed	DNA

	Response	
24(c)	Captioned	DNA
24(d)	Audio Described	DNA
31(a)	Blindness	NC
31(b)	Low vision	NC

(C=Compliant, NC=Not Compliant, DNA=Does Not Apply)

Baseline Test Results

B01	Keyboard navigation	NC
B02	Focus (visible)	NC
B03	Focus (order)	C
B04	Focus (Revealing hidden content)	NC
B05	Skip-navigation links	C
B06	Multi-state components	NC
B07	Images	NC
B08	Color (meaning)	NC
B09	Color (contrast)	NC
B10	Flashing (reserved)*	DNA
B11	Forms (associated instructions)	NC
B12	Page Titles	C

B13	Data Tables (headers)	NC
B14	Data Tables (cell-header mapping)	DNA
B15	Headings	C
B16	Links and user controls	NC
B17	Language	C
B18	Audio (transcripts)	DNA
B19	Video (descriptions)	DNA
B20	Synchronized Media (captions)	DNA
B21	Synchronized Media (descriptions)	DNA
B22	Style-sheet non-dependence	C
B23	Frames	DNA
B24	Alternate pages	DNA
B25	Time outs	DNA
B26	Image maps	DNA
B27	Plug-in Links	DNA
B2	Built-in	C

8	accessibility features	

(C=Compliant, NC=Not Compliant, DNA=Does Not Apply)