LTI Learning Systems VLE testing requirements by browser, operation system and mobile device screen size

Summary
This specification gives the approved testing requirements for core OU learning systems. This represents the general baseline requirement, however some products may not need this complete set – this should be discussed and agreed with the relevant product owner. This spec takes into account the VLE monthly usage stats from Jul 2017. It should be updated approximately every 6 months; this current spec valid from Oct 2017 to 1 Apr 2018.

At this point (Oct 2017) no account is being taken of potential differences between 32-bit and 64-bit browsers – for testing we treat both interchangeably.

Please note that testing on other browsers might be requested for specific circumstances (e.g. IE8 testing for SiSE related developments).

OS and browser combinations for testing
1 = High priority / 2 = Medium priority / 3 = Low priority

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Windows 8</th>
<th>Windows latest (10.x)</th>
<th>iOS latest</th>
<th>Android latest</th>
<th>iOS latest -1</th>
<th>Android latest -1</th>
<th>Android latest (10.x)</th>
<th>macOS latest (10.x)</th>
<th>Android latest -2</th>
<th>Windows 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrome latest version</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
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<tr>
<td>IE 11</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Edge latest version</td>
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<td>1</td>
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<tr>
<td>Firefox latest version</td>
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<tr>
<td>Safari latest version</td>
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<td>3</td>
<td>2</td>
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<tr>
<td>Chrome latest version -1</td>
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<td>Firefox latest version -1</td>
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</tbody>
</table>

Changelog (recent)
Changes from March 2017 version
- Change LTS to LTI, added Tammy Alexander to contacts
- Added comments about 32-and 64-bit browsers, and testing for SiSE
- Reoriented table moving browser to y-axis ; changed iOS 10.x to iOS latest, and iOS 9.x to iOS latest -1
- Changelog comments older than (document -1 version) moved to end of document
Changes from September 2016 version

- No changes in browser requests; move to 6 month review cycle

Screen size requirements for testing

For mobile testing, our main consideration is variety of screen size and resolution, ensuring it will test the variations of our standard responsive breakpoints, in both portrait and landscape viewing mode.

The standard responsive breakpoints are as follows:

<table>
<thead>
<tr>
<th>Breakpoint</th>
<th>Width Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile</td>
<td>0-767 px</td>
</tr>
<tr>
<td>Tablet</td>
<td>768-1023 px</td>
</tr>
<tr>
<td>Desktop</td>
<td>1024-1279 px</td>
</tr>
<tr>
<td>Full-width desktop</td>
<td>1280 px up</td>
</tr>
</tbody>
</table>

So, in practice this means for the latest Android we would expect testing at priority 1 to take place on a device where the screen width is up to 767 logical pixels or below (mobile) and a device where the screen width is between 768 and 1023 logical pixels (tablet).

(Note: logical pixel size is being quoted because of the possible confusion caused by devices with ‘retina’ type displays with high resolution size, but lower logical pixel size. If in doubt use, for example, https://jsfiddle.net/dbkn6qu6/ to check the logical pixel size of a device).

This means at priority 1 we have 14 desktop tests (7 platforms x 2 logical sizes) and 4 mobile tests (2 platforms x 2 logical sizes). At categories 2 and 3 for desktop and mobile we would request a single test at the larger of the 2 logical sizes (tablet, full-width desktop).

Contacts for further info

Tammy Alexander, Product Development Manager, Online Student Experience, LTS
Sharon Monie, Product Development Manager, Online Student Experience, LTS
Ian Blackham, Product Development Manager, Learning Systems, LTS
Pete Mitton, Interactive Media Production Manager, LTS

Appendix 1: Changelog (archive)

Changes from August 2016 version

- Removed IE 9 from the list because of low usage
- Replaced iOS 9.x by iOS 10.x
- Replaced iOS 8.x by iOS 9.x (net effect iOS 8.x removed from testing list)
- Replaced Mac OS 10.x by macOS latest (10.x)
- Replaced Windows 10.x by Windows latest (10.x)
- Replaced Android 6.x by Android latest and Android 5.x by Android latest -1
- Added Android latest -2
- Net effect of last four changes is to take account of ‘evergreen’ releases of desktop and Android OS. It is implicitly assumed that all users are taking advantage of this feature and there are not different ‘flavours’ of Windows 10.x

Changes from March 2016 version

- Changed Safari and Edge from defined version to ‘latest’
- Changed priority of IE 9 from 2 to 3
- Changed Android versions from Android 5.x to 6.x and Android 4.x to 5.x
LTI VLE testing requirements – Oct 2017

- Removed IE 10 testing