

DeltaNet Responsive Course Technical Requirements and Standards

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1. About the courses

DeltaNet courses are built in a responsive HTML5 framework and typically contains a mix of the following files: HTML, JavaScript, image files, audio files and video files.

The courses have been designed to run on the latest common browsers (Windows, Mac OS, IOS, and Android). Some functionality may not be available depending on the capabilities of the browser. See the list below for the recommended platform and browser versions that can be used to access the course.

2. Requirements

To successfully run these courses the following settings **must** be in place:

1. Hosting

Courses **must** be viewed via a web server using **HTTP/S**. This is due to security restrictions in modern browsers. Typically, this would be a Learning Management System (LMS).

2. MIME types

All required MIME types **must** be enabled on the LMS/server. A full list of MIME types that might be required can be found in section 3 of this document. The following none standard MIME types **must** be enabled:

.json (application/json)

.vtt (text/vtt)

.woff (font/woff)

.woff2 (font/woff2)

3. SCORM or xAPI

The LMS **must** be conformant with either **SCORM 1.2 RTE or xAPI**.

For aggregated SCORM packages the LMS must be conformant with SCORM 1.2 content aggregation model. SCORM courses are packaged using ADL's SCORM standard to ensure compatibility between LMS's.

4. Network

The minimum recommended bandwidth is 2Mbps. Please see section 4 for specification for a typical course.

5. Browser

Only the browsers listed in the browser standards section are supported. The browser **must not** be running in compatibility mode.

3. Network

The following table shows the recommended bandwidth and specification for a typical course.

Minimum bandwidth	2Mbps per concurrent user
Video/Audio details	Audio: mp3 – 56kbps Video: mp4 – video bitrate: 0.5 – 1 Mbps (depending on video length and style) Audio bitrate: 64 – 128 Kbps (depending on video length)
MIME types	.jpg (image) .png (image) .gif (image) .svg (image) .pdf (document) .json .mp4 (video) .ogv (video) .mp3 (audio) .html .js (JavaScript) .css (Cascading Style Sheets) .eot (font) .ttf (font) .woff (font) .woff2 (font)

4. Browsers

The following table shows the supported platforms and browsers.





Note: The browser version must support 128-bit encryption or secured pages will not display correctly.

Supported Platforms	Supported Browsers
Windows 10	<ul style="list-style-type: none">• Edge, latest version• Internet Explorer 11• Google Chrome, latest version• Mozilla Firefox, latest version
Mac OS X High Sierra 10.14.x	<ul style="list-style-type: none">• Safari, latest version

Tablet devices

We are not able to guarantee the course will run on all tablet devices, we have tested the course on the ones listed below.




Note: Modern tablet devices often have media auto play disabled and only play audio after user interaction.

iPad, iPad Mini		<ul style="list-style-type: none">• iOS v11• Safari
Lenovo		<ul style="list-style-type: none">• Windows 8.1• Model: Lenovo_MT_20326• Internet Explorer 11 Version 11.0.9600.17842
Nexus 10		<ul style="list-style-type: none">• Nexus 10 Build.KTU84P• Chrome latest version
Dell Venue Pro 5830		<ul style="list-style-type: none">• Windows 8.1 Ver 6.3.9600• Model: Dell Venue Pro 5830• Internet Explorer 11 Version 11.0.9600.16663

Mobile phones

We are not able to guarantee the course will run on all mobile phones, we have tested the course on the ones listed below.

Note: Modern mobile phones often have media auto play disabled and only play audio after user interaction.

iPhone		<ul style="list-style-type: none">• iOS v11• Safari Model: 6• Safari
Nokia		<ul style="list-style-type: none">• Windows 8.1• Model: Lumia 635• Internet Explorer 11
Samsung		<ul style="list-style-type: none">• Android 5.1.1• Model: Galaxy SM-G361F• Chrome latest version

5. Accessibility

DeltaNet's courses use Adapt v4, the framework's accessibility implementation has been engineered to meet WAI AA accessibility standards. This means that courses use default browser tabbing behavior (interactive elements only) and has accessibility permanently enabled.

Accessibility in our courses is primarily aimed at screen reader access to ensuring that the course efficiently describes visual content to users who are not able to see it.

Browser and screen reader compatibility

Accessibility in Adapt Framework v4 has been built with the following screen readers, browsers and operating systems in mind:

- JAWS 18+ and IE11 on Windows (primary testing target)
- JAWS 18+ and Chrome on Windows
- Voiceover and Chrome on OSX