

Requirements for Connecting to Elluminate

System Requirements

To participate in our Online LIVE class sessions hosted in Elluminate, you must have Java installed and one of the supported configurations below:

Supported OS's and recommended versions of Java

- **Windows Systems:**
 - 1 GHz 32-bit (x86) or 64-bit (x64) processor with at least 1 GB of system memory
 - Operating System:
 - Windows XP SP3 (32 bit with a 32 bit JVM)
 - Windows Vista (32 bit with a 32 bit JVM, or 64 bit with a 64 bit JVM)
 - Windows 7 (32 bit with a 32 bit JVM, or 64 bit with a 64 bit JVM)
 - Browser:
 - Microsoft Internet Explorer 7.0 or higher (IE 9 recommended)
 - Firefox 3.5 or higher
 - Safari 4 or higher
 - Chrome 10.0 or higher
 - Sun Java 1.5.0_17 or Sun Java 1.6.0_12 or greater (Most current Java release recommended)
 - High speed Internet connection (Cable/DSL or better)

- **Macintosh Systems:**
 - G4, G5 or Intel Processor with at least 1 GB of system memory
 - Operating System:
 - OS X 10.5 (32 bit with 32 bit JVM)
 - OS X 10.6 (64 bit with 32 bit JVM)
 - OS X 10.6 (64 bit with 64 bit JVM)
 - Browser:
 - Safari 4.0 or higher
 - Apple Java 1.5.0_16 (J2SE5 - 32 bit), Apple Java 1.6.0_07 (J2SE6 - 64 bit)
 - High speed Internet connection (Cable/DSL or better)

OLL Virtual Class Ports and Protocols Requirements:

- The OLL Elluminate classroom session is launched via Java Web Start when a user clicks on the Launch button from within their class page in the LMS.
 - Clicking the link downloads a small Java Network Launching Protocol (JNLP) file containing the information necessary to connect to an Elluminate session.
 - Java Web Start launches, reads the information in the JNLP file, ensures that the proper Java Resource (JAR) files are in place, and makes the connection to the server.
 - Java Web Start detects the proxy settings used by the default Internet browser on the connecting system, and uses the same settings during the connection process.
 - Java Web Start supports most proxy configuration scripts and can detect proxy settings in most environments.
 - If Java Web Start **cannot** detect the proxy settings, it will prompt to specify them. In this case it will be necessary to manually configure Java Web Start's proxy settings in order to launch Elluminate. Java Web Start will also prompt for username and password should it encounter an authenticating proxy.
- The Collaborative Communication Framework (CCF) is Elluminate's proprietary protocol which uses TCP.
- The CCF protocol must be able to traverse Port 80 for both TCP and UDP traffic on any firewall in between the learner and our lab server farm

Port	Protocol	FQDN	IP Address
443	HTTPS	lms.nhcms.net	67.214.100.233
443	HTTPS	illuminate.newhorizons.com	65.38.27.200
80	Java/CCF	el01.newhorizons.com	65.38.27.201
80	Java/CCF	el02.newhorizons.com	65.38.27.202
...	...	Through...	...
80	Java/CCF	el10.newhorizons.com	65.38.27.210