

## Minimum and Recommended Client Requirements: EXISTING or NEW EQUIPMENT

Effective 10/01/2017 – 9/30/2018

Component	Minimum	Minimum or Higher Required for LTC Survey Process Implementation Recommended for Other
<i>Processor</i>	Pentium Class (or equivalent) @ 1.2 GHz	Pentium Class (or equivalent) @ 2.0 GHz
<i>Memory (RAM)</i>	2 GB	4 GB
<i>Available Disk Space</i>	4 GB	10 GB on SATA 2 drive at 7200 RPM
<i>Monitor</i>	13" Color	Desktop 19": Color Flat Panel ≥1024x768 screen resolution Flat Panel for laptop or tablet
<i>Operating System*</i>	Windows 8.1 – 32 bit Windows 8.1 – 64 bit	Windows 8.1 – 32 bit Windows 8.1 – 64 bit Windows 10 – 32 bit Windows 10 – 64 bit
<i>Secure Access/Encryption (See Encryption Policy)</i>	Required – See Encryption Policy	Required – See Encryption Policy
<i>Anti-virus</i>	Current License	Current License
<i>Universal Serial Bus Port</i>	One	Two
<i>Removable Media (see Encryption Policy)</i>	USB Drive 2.0	USB Drive 3.0
<i>Pointing Device</i>	Mouse or equivalent (e.g. trackball or touchpad)	Mouse or equivalent (e.g. trackball or touchpad) and Pen/Stylus for tablet
<i>Network Interface Card (See CMS ARS security guidelines for acceptable wireless configurations)</i>	Wired for network connectivity; and Wireless network cards must support WPA-2 level encryption	Wired for network connectivity; and Wireless network cards must support WPA-2 level encryption
<i>Optical Drive</i>	2 external USB sockets	3 external USB sockets
<i>Audio</i>	Standard built-in speakers	Attachable microphone and standard built-in speakers
<i>Battery (laptop or tablet)</i>	6-cell lithium-ion	6-cell lithium-ion
<i>Browser**</i>	Internet Explorer v 11.0 compatibility mode with TLS 1.2 settings	Internet Explorer v 11.0 compatibility mode with TLS 1.2 settings
<i>Integrated Software</i>	.Net Framework 4.6.x	.Net Framework 4.6.x or higher
<i>Firewall Configuration</i>	The Following Ports Must Be Allowed to Contact Client PC 901 (UDP) 910 (TCP) 2638 (TCP) 8443 (TCP)***	The Following Ports Must Be Allowed to Contact Client PC 901 (UDP) 910 (TCP) 2638 (TCP) 8443 (TCP)***

\* States considering implementing Windows 10 should carefully evaluate CMS software with this Operating System before full scale deployment.

**Note:** Operating systems need to be current with all Windows security updates. Windows 7 is on extended support through January 14, 2020. QIES will continue to support Windows 7 at this time.

\*\*Internet Explorer v 11 will need to operate in compatibility mode in order for the software to operate properly.

Per the Internet Explorer Support Lifecycle Policy FAQ (<https://support.microsoft.com/en-us/gp/microsoftinternet-explorer>), beginning January 12, 2016, only the most current version of Internet Explorer available for a supported operating system will receive technical support and security updates.

Internet Explorer v 9.0 and v 10.0 is no longer supported as of January 1<sup>st</sup> 2016. Only Internet Explorer v 11.0 running in compatibility mode is currently supported.

Due to new CMS security requirements, all browsers must have the TLS 1.2 setting enabled.

\*\*\*Port 8443 is the default used by LTCSP, but can be reconfigured through the software. Whichever port is chosen to be used is the one that must be allowed through firewalls.