

Workstation Technical Specifications for SSIS and MnCHOICES Applications

Listed below are 2 sets of workstation specifications:

- one for purchasing **new workstations**, and
- one for **existing workstations** for users who will be using the SSIS application and/or the MnCHOICES application.

SSIS is recommending 8GB of RAM for new workstation purchases, which is consistent with current DHS purchasing policy. The additional RAM will improve performance across the board¹ and will extend the useful life of the workstation as new applications continue to consume more RAM. The cost of the additional 4GB of RAM is estimated to be less than \$40. SSIS will run acceptably using 4GB of RAM, and the SSIS Development Team is focused on managing the application's memory requirements and improving performance wherever possible, but more RAM will make all applications run better.

For new computer purchases, SSIS and MnCHOICES strongly recommend Windows 7 - 64 bit. Memory usage is much better when using the 64 bit operating system², and both the SSIS and MnCHOICES applications will run better in this environment.

SSIS has received several inquiries as to whether lead agencies will be able to use a tablet (i.e., iPad or other type of tablet) to access MnCHOICES. Tablet use will not be supported by MnCHOICES. Lead agencies must use a laptop (in the field) to access MnCHOICES that meets or exceeds the specifications shown below.

SSIS and MnCHOICES New Workstation Specifications

MnCHOICES Without SSIS	MnCHOICES and SSIS
<p>Hardware</p> <ul style="list-style-type: none"> • i5-2400 Processor, either single core 3.1-3.4 GHz OR dual core 1.9 GHz or higher • 4 GB of RAM minimum • 250 GB hard drive <p>Operating System</p> <ul style="list-style-type: none"> • Microsoft Windows 7 - 32 bit or 64 bit <p>Software</p> <ul style="list-style-type: none"> • Internet Explorer 8 or higher • OR Google Chrome 37 or higher • Silverlight version 5.1.1 or higher⁴ • Java Runtime version 6 or higher 	<p>Hardware</p> <ul style="list-style-type: none"> • i5-2400 Processor, either single core 3.1-3.4 GHz OR dual core 1.9 GHz or higher • 4 GB of RAM, 8 GB of RAM recommended³ • 250 GB hard drive • Network card compatible with county's local area network topology <p>Desktop Monitor</p> <ul style="list-style-type: none"> • 17" or 19" LCD or flat panel monitor • Note: Fiscal users should have 19" monitors because of the large displays for fiscal functions <p>Operating System</p> <ul style="list-style-type: none"> • Microsoft Windows 7 - 64 bit <p>Software</p> <ul style="list-style-type: none"> • Internet Explorer 8 or higher OR Google Chrome 37 or higher • Silverlight version 5.1.1 or higher⁴ • Microsoft .NET Framework 4.0 Client Profile⁵

MnCHOICES Without SSIS	MnCHOICES and SSIS
<p>Other</p> <ul style="list-style-type: none"> High-speed Internet connection for initial setup Ethernet card and wired connection for laptops 	<ul style="list-style-type: none"> Java Runtime version 6 or higher <p>Other</p> <ul style="list-style-type: none"> High-speed Internet connection for initial setup Ethernet card and wired connection for laptops

SSIS and MnCHOICES Existing Workstation Specifications

MnCHOICES Without SSIS	MnCHOICES and SSIS
<p>Hardware</p> <ul style="list-style-type: none"> 2 GHz Processor 2 GB of RAM or 3 GB for 64-bit operating systems¹ 16 GB available disk space <p>Operating System</p> <ul style="list-style-type: none"> Microsoft Windows 7 - 32 bit or 64 bit² <p>Software</p> <ul style="list-style-type: none"> Internet Explorer 8 or higher OR Google Chrome 37 or higher Silverlight version 5.1.1 or higher⁴ Java Runtime version 6 or higher <p>Other</p> <ul style="list-style-type: none"> High-speed Internet connection for initial setup Ethernet card and wired connection for laptops 	<p>Hardware</p> <ul style="list-style-type: none"> 2 GHz Processor 4 GB of RAM, 8 GB of RAM recommended¹ 250 GB hard drive Network card compatible with county's local area network topology <p>Desktop Monitor</p> <ul style="list-style-type: none"> 17" or 19" LCD or flat panel monitor Note: Fiscal SSIS users should have 19" monitors because of the large displays for fiscal functions. <p>Operating System</p> <ul style="list-style-type: none"> Microsoft Windows 7 - 32 bit or 64 bit² <p>Software</p> <ul style="list-style-type: none"> Internet Explorer 8 or higher OR Google Chrome 37 or higher Microsoft .NET Framework 4.0 Client Profile⁵ Java Runtime version 6 or higher <p>Other</p> <ul style="list-style-type: none"> High-speed Internet connection for initial setup Ethernet card and wired connection for laptops

¹ Performance impact of 8 GB of RAM vs. 4 GB: <http://blog.laptopmag.com/5-ways-to-supercharge-your-laptop-for-under-100>

² Windows 7 - 32 bit vs. 64 bit comparison: <http://www.sevenforums.com/installation-setup/86886-32-bit-vs-64-bit-comparison.html>

³ 32 bit operating systems can only use 4 GB of RAM. If you are running Windows 7 in 32 bit mode (referred to as X86), do not install more than 4 GB of RAM. Details at: [http://msdn.microsoft.com/en-us/library/windows/desktop/aa366778\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/aa366778(v=vs.85).aspx)

⁴ Silverlight installation instructions at: http://www.dhs.state.mn.us/main/groups/agencywide/documents/pub/dhs16_171736.pdf

⁵ Microsoft .NET Framework Installation instructions at: http://www.dhs.state.mn.us/main/groups/agencywide/documents/pub/dhs16_169332.pdf