

<b>IMT Standards</b>  IMT Standards Oversight Committee Government of Alberta	<b>Effective Date: 2009-09-30</b> <b>Scheduled Review: 2019-10-12</b> <b>Last Reviewed: 2018-10-12</b>  <b>Type: Technical</b>
<b>Standard number - A000075</b>	
<b>Workstation – General</b>	
<b>Category: Hardware</b> <b>Keywords: Workstation, Desktop, Power</b>	

**Description of Standard**

The standards below are for a General Workstation Configuration. The system is a high performance, quad core, 64-bit processor based PC with a discrete video card and RAID capabilities. This PC is meant for the most resource intensive automation tasks.

**Standard Specification**

The General Workstation must meet the *minimum* specifications listed below:

System Requirements	<ul style="list-style-type: none"> <li>• The system must support Intel® Virtualization Technology</li> </ul>
Form Factor	<ul style="list-style-type: none"> <li>• Tower style case with support for two 3.5" internal hard drives</li> <li>• Two bays must be available externally to support 5.25" devices</li> </ul>
Operating System	<ul style="list-style-type: none"> <li>• This desktop must support the following operating systems                         <ul style="list-style-type: none"> <li>○ Windows 10</li> <li>○ Windows 7</li> <li>○ Linux (HP, SUSE, RedHat)</li> </ul> </li> <li>• Systems must be certified through the Windows Logo Program for Windows 7</li> </ul>
CPU, Memory, and Storage	<ul style="list-style-type: none"> <li>• Minimum Quad core Processor                         <ul style="list-style-type: none"> <li>○ The chip set offered must conform to Intel's Stable Image Platform Program (SIPP)</li> <li>○ x64 (x86-64) compatible</li> <li>○ Any Intel® Xeon processor with cores operating at 2.8 GHz or greater</li> </ul> </li> <li>• Memory – 16 GB DDR4-2133MHz upgradeable to 128 GB</li> <li>• SATA II disk controller with support for RAID 0, 1, 5 and 10 with 4 SATA ports.</li> </ul>

	<ul style="list-style-type: none"> <li>• Hard disk minimums                         <ul style="list-style-type: none"> <li>○ 1 TB</li> <li>○ SATA 6.0 Gb/s</li> <li>○ 64 MB cache</li> <li>○ 7200 RPM</li> </ul> </li> <li>• Internal DVD+/-RW drive</li> </ul>
Peripheral Connections	<ul style="list-style-type: none"> <li>• USB Ports;                         <ul style="list-style-type: none"> <li>○ A minimum of 9 Universal Serial bus ports</li> <li>○ 3 ports must be located on the front</li> <li>○ Minimum of 4 ports support USB version 3.0</li> <li>○ Remaining ports supporting USB version 2.0</li> </ul> </li> </ul>
Display	<ul style="list-style-type: none"> <li>• Discrete graphics adapter with dual digital monitor support</li> <li>• Minimum of 2 GB dedicated video memory</li> </ul>
Input Devices	<ul style="list-style-type: none"> <li>• QWERTY keyboard with adjustable tilt, spill resistant design, and Universal Serial Bus interface to PC</li> <li>• Optical (USB) mouse with scroll - three button mouse where third button is mouse wheel</li> </ul>
Communications	<ul style="list-style-type: none"> <li>• 10/100/1000 auto-sensing Ethernet network card with Wake-On-LAN (WOL) capability</li> </ul>

**Standard Options**

The General Workstation may support the following standard options;

CPU, Memory, and Storage	<ul style="list-style-type: none"> <li>• Additional memory to upgrade to a maximum of 128 GB</li> <li>• SATA Solid State Drive</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>• Advanced video card                         <ul style="list-style-type: none"> <li>○ Supports resolution of 2560x1600 or greater</li> <li>○ DirectX 10 support</li> <li>○ PCI Express 2.0 support</li> <li>○ Dual Digital Monitor Support</li> <li>○ OpenGL 3 support</li> <li>○ 4 GB dedicated video memory</li> <li>○ Graphics Processing Unit with 650 MHz core clock speed or greater.</li> </ul> </li> </ul>

### **Where to Apply This Standard**

This applies to all Government of Alberta Ministries.<sup>1</sup>

### **Authority and Exceptions**

Internal Use Only

### **Supporting Documentation**

Not applicable.

### **Owner**

Service Alberta, Office of the Corporate CIO, Enterprise Operations and Infrastructure, Technical Solutions Architect Team

### **Contact**

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<sup>1</sup> Ministries are defined as departments and exclude agencies, boards and commissions that do not report through the department unless the Minister responsible for administering the department specifically identifies an agency, board or commission to be within scope.

**Additional Information**

<b>Audience</b>	GOA
<b>Source</b>	Service Alberta, Office of the Corporate CIO, Enterprise Operations and Infrastructure, Technical Solutions Architecture Team
<b>Sensitivity</b>	Public
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