

IMT Standards	Effective Date: 2018-08-14
IMT Standards Oversight Committee Government of Alberta	Scheduled Review: 2019-08-14
	Last Reviewed: 2018-08-14
Type: Technical	
Standard number – A000086	
Server – Discreet Hosting Configuration	
Category: Hardware	
Keywords: Server, Discreet	

Description of Standard

The standards below are for discreet hosted servers. To extend the life of existing data centres we recommend the use of high-density solutions.

Standard Specification

The Server must meet the specifications listed below:

Power Supply	<ul style="list-style-type: none"> • Redundant hot pluggable 208V power supply • Redundant hot pluggable fans
Data Centre requirements	<ul style="list-style-type: none"> • 4 U rack size (max) • Rack mounting kit (including cable management arm) for 3rd party server cabinets • Hardware-based remote administration and control (e.g. Integrated Lights Out support) • Hardware Management agent
Processor	<ul style="list-style-type: none"> • Intel Xeon, AMD Opteron or equivalent CPU • Minimum two CPU sockets on the motherboard
Memory	<ul style="list-style-type: none"> • Can support at least of 512 GB of memory
Local Storage	<ul style="list-style-type: none"> • Minimum 8 hot pluggable hard drive bays • Option for 10K or 15K RPM SAS hard drives • Option for Solid State Disks (SSD) hard disks
Network	<ul style="list-style-type: none"> • 10GB NIC, with option of multiple NICs
Other	<ul style="list-style-type: none"> • Option for redundant Host Bus Adapters (HBA) • PCI-E expansion slots

Power Usage Guideline

The power usage guideline is 110V, 5.7A, 1.261 Max kW, 0.773 Avg kW, Quad-Fed
Straight Blade Receptacle

Heat Guideline

The heat guideline is 4,300 BTU's/Hr (max)

Where to Apply This Standard

This applies to all Government of Alberta Ministries.

Authority and Exceptions

Internal Use Only

Supporting Documentation

Not applicable.

Owner

Service Alberta, Office of the Corporate CIO, Enterprise Operations and Infrastructure

Contact

GoA IMT Standards at imt.standards@gov.ab.ca

Additional Information

Audience	GOA
Source	Service Alberta
Sensitivity	Public
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Proposed By	Service Alberta, Office of the Corporate CIO, Enterprise Operations and Infrastructure – Garnet Randolph – 780-644-3903

Appendix A

Types of Standards	Description
Technical Standard	These are detailed, unique standards that have developed in response to government IMT policies. Technical standards are intended to be replicable, transferable, and adaptable across ministries and other government agencies. Examples of these could include address data standards or specifications for a single identifier for transacting with government electronically.
Product Standard	An IMT product or specific technology oriented standard that facilitates the task of planning for enhancements and acquisitions within the government's broad information systems environment. As a definitive list of the numerous technologies either employed or under evaluation by Workplace Technology Services, product standards are critical in establishing conformity, interoperability and interchange-ability. Examples of these could include a government-wide standard for document, record management and database, and the list of core products for government workstations.
Process Standard	An established, mandatory business practice that supports IMT projects and existing systems to improve the outcome, diminish risks, and increase reliability. Examples could include business continuity planning processes, threat risk assessment processes, etc.
Reference Standard	An IMT industry standard (either a national or international formal or de facto standard) that has been adopted for use by the Province of Alberta. A Reference Standard may be adopted either as stand-alone or as a precursor to a customized standard or policy document. Examples could include the 1024 bit RSA standard for public key encryption.