

AVALANCHE MC 5.0 SYSTEM REQUIREMENTS FOR LINUX

This paper provides both minimum and recommended system requirements for Avalanche Mobility Center (Avalanche MC), along with additional guidelines for increasing system resources to accommodate larger numbers of devices. The minimum system requirements allow for the OS, but not for other applications running on the same system. As with any application, performance, speed and system responsiveness will generally improve with additional RAM, processing power, and higher clock speed.

When Avalanche MC is installed using a distributed model, Mobile Device Servers and Infrastructure Servers can be installed on different computers. The Enterprise Server, Statistics Server, and any Mobile Device Servers can be installed on a Linux OS. The Avalanche Java Console and any infrastructure servers must be installed on a Windows OS.

When you have Avalanche components installed on Linux computers, you can install the databases on the same machine as the Enterprise Server, or on a separate machine. You have the option of using either PostgreSQL or Oracle 11g as your DBMS.

Each Mobile Device Server can support up to 10,000 devices. Each Infrastructure Server can support up to 3,500 devices, including access points, switches, and access ports.

Enterprise Server/ Statistics Server	0 - 10,000 Devices	10,000 - 50,000 Devices	50,000 - 100,000 Devices
OS	Windows XP Professional 32 bit Windows Vista Business 32 or 64 bit Windows Vista Ultimate 32 or 64 bit Windows 2003 Server 32 bit Windows 2008 Server 32 or 64 bit Linux 2.6 kernel (Red Hat 7.3 or Red Hat Enterprise 4 are recommended)		
CPU	Single Core at 2.8 GHz or greater	Dual Core at 3.0 GHz or greater	Quad Core at 2.4 GHz or greater
RAM Minimum Recommended	2 GB 3 GB (using a 32-bit OS) 4 GB (using a 64-bit OS)	4 GB (using a 64-bit OS) 8 GB (using a 64-bit OS) or more	8 GB (using a 64-bit OS) 12 GB (using a 64-bit OS) or more
Disk space	100 GB	100 GB	100 GB
Display Resolution	Recommended 1024 x 768 or greater		

Mobile Device Server(s)	0 - 1,000 Devices	1,000 - 5,000 Devices	5,000 - 10,000 Devices
OS	Windows XP Professional 32 bit Windows Vista Business 32 or 64 bit Windows Vista Ultimate 32 or 64 bit Windows 2003 Server 32 bit Windows 2008 Server 32 or 64 bit Linux 2.4 or 2.6 kernel (Red Hat 7.3 or Red Hat Enterprise 4 are recommended)		
CPU	Single Core at 2.8 GHz or greater	Dual Core at 2.5 GHz or greater	Dual Core at 3.2 GHz or greater
RAM Minimum Recommended	2 GB 3 GB (using a 32-bit OS) 4 GB (using a 64-bit OS)	3 GB (using a 32-bit OS) 4 GB (using a 64-bit OS) or more	3 GB (using a 32-bit OS) 4 GB (using a 64-bit OS) or more
Disk space	20 GB	20 GB	20 GB

Infrastructure Server(s)	0 - 500 Devices	500 - 1,000 Devices	1,000 - 3,500 Devices
OS	Windows XP Professional 32 bit Windows Vista Business 32 or 64 bit Windows Vista Ultimate 32 or 64 bit Windows 2003 Server 32 bit Windows 2008 Server 32 or 64 bit		
CPU	Single Core at 2.8 GHz or greater	Dual Core at 2.5 GHz or greater	Dual Core at 3.2 GHz or greater
RAM Minimum Recommended	2 GB 3 GB (using a 32-bit OS) 4 GB (using a 64-bit OS)	3 GB (using a 32-bit OS) 4 GB (using a 64-bit OS) or more	3 GB (using a 32-bit OS) 4 GB (using a 64-bit OS) or more
Disk space	20 GB	20 GB	20 GB

Avalanche Console Only	
OS	Windows XP Professional 32 bit Windows Vista Business 32 or 64 bit Windows Vista Ultimate 32 or 64 bit Windows 2003 Server 32 bit Windows 2008 Server 32 or 64 bit
CPU	Single Core at 2.0 GHz or greater
RAM Minimum Recommended	1 GB 2 GB or greater
Disk space	10 GB
Display Resolution	Recommended 1024 x 768 or greater



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