

AVALANCHE 5.3 SYSTEM REQUIREMENTS

The Avalanche management system is comprised of several modules based on a variety of core services and several optional services. Avalanche is available for installation in two editions:

Avalanche Mobility Center (Avalanche MC) contains all the necessary components to manage both mobile devices and infrastructure devices. It can be deployed in either a centralized or distributed model. The Avalanche MC installation process allows you to install components on different servers, so it is somewhat less automated than that of the Avalanche SE.

Avalanche Site Edition (Avalanche SE) is particularly suitable for smaller organizations that only need centralized mobile device management. It is lighter weight and designed to install quickly and easily. Avalanche SE supports multiple consoles, but does not manage infrastructure devices and cannot run in a distributed model without performing a migration to Avalanche MC.

The Avalanche installation requirements are dependent on the installation type, the configuration model, and the number of devices to be supported. This paper provides both minimum and recommended system requirements for the different installation types, 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. Performance, speed and system responsiveness will generally improve with additional RAM, processing power, and higher clock speed.

- Avalanche Site Edition Requirements
- Avalanche Mobility Center Requirements
- Avalanche Console Only Requirements

AVALANCHE SITE EDITION REQUIREMENTS

Avalanche SE includes the Enterprise Server, databases, statistics server, Java Console, Mobile Device Server, and Web Console all on the same computer. The Mobile Device Server can support up to 5,000 devices.

OS*	OS Windows XP Professional 32 bit	Windows 2003 Server 32 bit
	Windows Vista 32 or 64 bit	Windows 2008 Server 32 or 64 bit
	Windows 7 32 or 64 bit	Windows 2008 Server R2 32 or 64 bit
	1-1000 Devices	1000 - 5000 Devices
CPU	Single Core at 2.8 GHz or greater	Dual Core at 3.2 GHz or greater
RAM Minimum Recommended	1.5 GB	2 GB
	3 GB (using a 32-bit OS)	3 GB (using a 32-bit OS)
	4 GB (using a 64-bit OS)	4 GB (using a 64-bit OS)
Disk Space	100 GB	100 GB
Display Resolution	Recommended 1024 x 768 or greater	

* Some localized operating systems are not supported. See the Release Notes for details.

AVALANCHE MOBILITY CENTER REQUIREMENTS

Installation requirements for Avalanche MC are dependent on the configuration model and the number of devices to be supported. There are two configuration models for Avalanche MC:

Centralized Model. In a centralized model, all of the Avalanche server modules and services are installed on a single server. Management consoles can still be used from remote workstations. If organizational needs change, a centralized installation of Avalanche MC can be reconfigured to a distributed model by deploying additional Infrastructure and Mobile Device Servers. It is not necessary to uninstall or reinstall Avalanche.

Distributed Model. In a distributed model, the Avalanche modules and services can be spread over several servers. These servers can be located side by side in the same server farm, or located across the enterprise. Some reasons to use a distributed model include, but are not limited to: network bandwidth, network availability, redundancy, and organization of supported devices.

CENTRALIZED MODEL REQUIREMENTS

When Avalanche MC is installed using a centralized model, the Enterprise Server, databases, statistics server, Mobile Device Server, Infrastructure Server, Java Console and Web Server are all installed on the same computer. Each Mobile Device Server can support up to 5,000 devices. Each Infrastructure Server can support up to 1,000 devices, including access points, switches, and access ports.

OS*	OS Windows XP Professional 32 bit Windows Vista 32 or 64 bit Windows 7 32 or 64 bit	Windows 2003 Server 32 bit Windows 2008 Server 32 or 64 bit Windows 2008 Server R2 32 or 64 bit
Enterprise Server with Mobile Device Server and Infrastructure Server	1-1500 Devices	1500 - 6000 Devices
CPU	Single Core at 2.8 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)
Disk Space	100 GB	100 GB
Enterprise Server with Mobile Device Server	1-1000 Devices	1000-5000 Devices
CPU	Single Core at 2.8 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)
Disk Space	100 GB	100 GB
Enterprise Server with Infrastructure Server	1-500 Devices	500-1000 Devices
CPU	Single Core at 2.8 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)
Disk Space	100 GB	100 GB

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DISTRIBUTED MODEL REQUIREMENTS

When Avalanche MC is installed using a distributed model, Mobile Device Servers and Infrastructure Servers can be installed on different computers. 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			
OS*	Windows XP Professional 32 bit Windows Vista 32 or 64 bit Windows 2003 Server 32 bit Windows 2008 Server 32 or 64 bit Windows 2008 Server R2 32 or 64 bit Windows 7 32 or 64 bit Linux 2.6 kernel (Red Hat Enterprise 4 is recommended)		
	1-10000 Devices	10000-50000 Devices	50000-100000 Devices
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	2 GB 3 GB (using a 32-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
Recommended	4 GB (using a 64-bit OS)		
Disk Space	100 GB	100 GB	100 GB
Mobile Device Server(s)			
OS*	Windows XP Professional 32 bit Windows Vista 32 or 64 bit Windows 2003 Server 32 bit Windows 2008 Server 32 or 64 bit Windows 2008 Server R2 32 or 64 bit Windows 7 32 or 64 bit Linux 2.4 or 2.6 kernel (Red Hat 7.3 or Red Hat Enterprise 4 are recommended)		
	1-1000 Devices	1000-5000 Devices	5000-10000 Devices
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	2 GB 3 GB (using a 32-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
Recommended	4 GB (using a 64-bit OS)		
Disk Space	20 GB	20 GB	20 GB

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Infrastructure Server(s)			
OS*	Windows XP Professional 32 bit Windows Vista 32 or 64 bit Windows 2003 Server 32 bit Windows 2008 Server 32 or 64 bit Windows 2008 Server R2 32 or 64 bit Windows 7 32 or 64 bit		
	1-500 Devices	500-1000 Devices	1000-3500 Devices
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
Disk Space	20 GB	20 GB	20 GB

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AVALANCHE CONSOLE ONLY REQUIREMENTS

The Java Console is included with the other installation options, but the standalone installer allows you to install additional remote Consoles. The Console is used with Avalanche MC and Avalanche SE.

OS*	Windows XP Professional 32 bit Windows Vista 32 or 64 bit Windows 2003 Server 32 bit Windows 2008 Server 32 or 64 bit Windows 2008 Server R2 32 or 64 bit Windows 7 32 or 64 bit	
CPU	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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Wavelink Corporation
 USA and Canada: 1.888.697.WAVE (9283)
 Outside the USA and Canada: + 800 WAVELINK (9283 5465)
 CustomerService@wavelink.com

