Avalanche

Manage and secure your wireless ecosystem with Wavelink Avalanche

Wavelink Avalanche® is a comprehensive enterprise mobility management solution for the wireless ecosystem that provides complete visibility and control of wireless infrastructure and mobile devices from a central console. Avalanche eases the configuration, deployment and management of wireless networks, while offering extensive flexibility by supporting a wide range of mobile devices and infrastructure. It is the only vendor-agnostic product in the market offering such extensive functionality and reduced complexity across such a large number of mobile devices and infrastructure. It improves the productivity of mobile workers, increases network security, and reduces the total cost associated with owning and managing mobile devices and peripherals. With a variety of delivery options that include on-premise and hosted solutions such as SaaS and managed services, Wavelink Avalanche fulfills the needs of every wireless enterprise.

When combined with Avalanche SecurePlus, which extends device and data protection, and Avalanche Remote Control™, which provides remote troubleshooting, Wavelink® provides the most comprehensive solution set available in a mobile device management system today.

wavelink®

Comprehensive management solution for the wireless enterprise

Easy-to-use web-based console
Avalanche offers two versions of its easy-to-use management console; a Java version and a web-based version. With the Web Console there is no client-side installation, users simply access the console through a standard web browser. Designed with the user experience in mind, the console has an easy-to-use interface that also provides multi-tenancy capabilities to facilitate organizational segmentation.

Independent, full-featured support for devices from many vendors
Avalanche offers a way to escape the limitations of vendor-specific management systems by providing broad support for devices from many different vendors. This includes everything from legacy DOS-based devices, to wireless printers, barcode scanners and RFID readers. Additionally, handheld mobile computers, smartphones, tablets, access points, wireless switches, Ethernet-to-Wi-Fi converters, flight data recorders, time clocks and other embedded OS devices are also supported.

Simple, efficient provisioning out of the box
Avalanche saves you time and money by making it easy to manage devices. Preloaded on devices from a growing list of over 15 device manufacturers, the Avalanche Enabler can automatically find the Avalanche system, eliminating the need for administrators to carry out extensive device discovery efforts. Avalanche can streamline batch provisioning with the Scan-to-Configure feature that allows configuration parameters to be set using scanned, secure barcodes. It also makes extensive use of Profiles and Groups, which allows administrators to predefine configuration details that can be automatically applied to new devices meeting specified criteria, rather than provisioning each device individually as it is added.

Management inside and outside the four walls
Avalanche provides management support regardless of the network type, be it WLAN or WWAN, including cellular networks such as GPRS, and can manage hybrid devices that transition between these different networks. To help manage devices outside the four walls, Avalanche provides a variety of features. For example, mobile device profiles allow for the configuration of device-specific settings such as time zone, custom device properties, registry settings and carrier settings like APN. SMS-capable devices in sleep mode can be forced to check in to receive necessary updates, and Avalanche also provides administrators with the option to allow a persistent device-to-server connection for situations where that type of connectivity is required.

Ensure security across your network
Between constant threats to security, and increasingly stringent corporate and regulatory requirements such as PCI, HIPAA and Sarbanes-Oxley, today's businesses need Avalanche to help manage security and provide oversight across the wireless ecosystem. Encryption for device communication and sensitive database fields are standard in Avalanche. Avalanche lets administrators set, and continually enforce wireless network and security configurations using powerful profiles that apply policies based on defined criteria. It is the only complete solution for 802.11 provisioning via extensive support for industry standard encryption and authentication protocols. When necessary, administrators can do a remote device wipe, immediately protecting and securing confidential data.

To prevent unwanted intrusions, Avalanche detects foreign and rogue access points and client devices, while offering centralized access to control lists for infrastructure and role-based user access to the console. System security is ensured through the encryption of communication channels and database encryption on sensitive fields, such as passwords and keys. Utilizing Avalanche SecurePlus, administrators gain support for client-side certificates and device lockdown rules.

Designed for the enterprise
Avalanche is an enterprise-strength application suite that can expand and adapt to your organization's needs. Whether you have just a few locations, or hundreds, Avalanche has a scalable, distributed architecture that allows you to deploy servers in a way that works for your environment. Avalanche includes an enterprise class database or can integrate with your existing SQL Server implementation. Avalanche also integrates with Active Directory and other LDAP services to simplify user authentication and permissioning.

A solution that is reliable, easy-to-use, and innovative

Management that extends beyond mobile devices and infrastructure
Avalanche Printer Management gives administrators insight and control over Bluetooth™ printers. Through Printer Management, administrators have the ability to identify the pairings of mobile terminals to printers, enabling personnel to more accurately and easily identify a printer uniquely. For example, administrators can monitor printer utilization allowing better insight to plan for maintenance and thereby minimizing down time.

Avalanche Smartphone and Tablet Management extends management to iOS, Android and BlackBerry, ensuring that these devices are not only properly managed, but that they pose no threat to the enterprise. Avalanche let's you know their location, platform data, battery levels, Wi-Fi status and more. If they become lost or stolen, Avalanche locks or wipes the device immediately.

Monitor and maintain remote devices
Avalanche gives you the needed visibility to easily manage and effectively respond to wireless network conditions. Avalanche generates customizable alerts that are displayed in the console or sent to e-mail servers and external systems such as Tivoli®, HP OpenView™, or CA Unicenter®. Avalanche provides an array of pre-configured reports and a feature for customizing your own reports to get you the information you need. To help you manage remote devices, Avalanche uses profiles that control what software and files are pushed to the device and what applications are allowed to run, ensuring software distribution is pushed out at convenient times and days. It also gives you remote control capabilities that extend to the keyboard, registry and file system using Avalanche Remote Control™.

Device Location Mapping
Avalanche provides an accurate view of both where and how your assets are being used through Device Location Mapping. This feature provides detailed information regarding the location of mobile devices under management using GPS and bolsters wireless WAN management capabilities. Use Device Location Mapping to physically locate where a device was and when it was last operational. If a device is lost or stolen, Device Location Mapping can help track that device down to the street level, regardless of its location across the globe. Avalanche can even provide a location's history (breadcrumbs) and if GPS is not available, Avalanche can track an approximate location based on cell tower association. Geofencing capabilities allow administrators to define geographic areas where devices are expected to be located. These boundaries can then be used to trigger alerts whenever a device crosses into or out of the geofenced area.

Comprehensive infrastructure management enhancements
Through wireless infrastructure management, Avalanche provides organizations with the necessary control and monitoring of access points and switches from the widest range of manufacturers on the market. Avalanche provides advanced threat detection for rogue and foreign access points and also a wide array of new reports to provide deeper insight to your wireless network. With Avalanche, you gain powerful visualization tools that provide administrators with a graphical representation of the wireless ecosystem through floor plan diagrams. Administrators can import multiple diagrams as needed and plot the locations of infrastructure devices. Avalanche can then display heat maps representing predicted wireless coverage and even display information about associated mobile devices.

An Avalanche solution for every organization
Avalanche is available in a variety of options depending on an organizations specific need. Avalanche Site Edition provides device management capabilities to those organizations that do not require infrastructure management or a distributed server architecture. and Avalanche Mobility Center combines comprehensive device management with robust management of wireless peripherals.

Available delivery options: on-premise/managed services/SasS
Avalanche is built with a multi-tenant architecture supporting three different software delivery options. Traditional on-premise installation of Avalanche gives customers complete control, Avalanche On Demand is a cloud-based SaaS offering, and Avalanche Managed Services is another hosted offering where Wavelink experts take care of day-to-day administration. There truly is an Avalanche for every organization.

A solution that is reliable, easy-to-use, and innovative

Two-way messaging
Allows a console operator to send text messages to one or more devices, view the acknowledgements and message history, and to resend messages where appropriate. Device users can reply and participate in a chat session with the console operator.

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Flexible, hybrid architecture
The architecture of Avalanche minimizes LAN, WAN, and Wireless WAN overhead and optimizes network resources. Services may be centralized, or located at the managed remote locations to suit the network topology. Client devices adjust automatically to the available bandwidth.

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Localization
Avalanche has an internationalized user interface that can be localized to the language of customers around the globe.

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Advanced security features
Everything from WEP to WPA mixed mode, and 802.1X based EAP types such as LEAP, PEAPv0, PEAPv1, EAP-TTLS, EAP-LEAP, EAP-FAST and EAP-TLS. With automatic alert notifications and forwarding, administrators can be alerted to network resource failures, security threats or other important events.

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Profile-based configuration
Easily create global templates that define network and configuration settings and apply them to groups of devices based on specified criteria.

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Proactive mobile device data protection
With Avalanche SecurePlus, enhance device and data protection even when away from the network. Employ encryption or destruction policies for files and directories when a device is vulnerable.

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Powerful troubleshooting tools
Constantly monitor your wireless enterprise and proactively remedy many common problems without administrator intervention. Gain the ability to further diagnose and remedy less common problems with Avalanche Remote Control.

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Bandwidth management
With Avalanche administrators manage the wireless ecosystem without disrupting the workforce. Avalanche operates over any kind of network and has controls to ensure that no undue overhead is placed on the network transport, so you can send out devices updates knowing you are maintaining network and device stability.

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Advanced statistics and reporting
Access a full range of predefined and customizable reports to help monitor and analyze network performance and respond to audit requirements. Included reports cover network and mobile device activity, as well as installed software, asset/inventory information and current configuration of individual devices.

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The Industry Leader
With more than 9 million active client licenses in the field, Wavelink is the leading provider of multi-vendor mobile device management, wireless infrastructure management, terminal emulation, voice enabling, proactive telecom expense management and mobile application development software. Wavelink technology solves the unique challenges involved in deploying, managing and controlling today's enterprise mobility systems and facilitates peak performance from frontline staff. More than 15,000 companies in retail, manufacturing, healthcare, government, public safety and logistics industries rely on Wavelink to accelerate application delivery, reduce device management and support costs, and tighten network security. Inside the four walls, or in the field, Wavelink leads mobility.

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