



## VIRTUALIZED SOFTWARE-BASED WLAN CONTROLLER

# VX 9000 CONTROLLER

## COMPREHENSIVE CLOUD READY WIRELESS SERVICES AND A SINGLE POINT OF CONTROL FOR ANY SIZE ENTERPRISE

The VX 9000 combines the power of virtualization with Motorola Solutions industry-leading WiNG Controller, creating a virtual controller in a class of its own. The cost-effectiveness of virtualization combines with high-performance advanced wireless services, endless scalability, superior deployment flexibility and centralized management of the entire wireless network through a single windowpane, bringing a new level of simplicity, cost-efficiency and much needed hardware independence to the wireless LAN.

### MINIMIZE DEPLOYMENT COST WITH MAXIMUM DEPLOYMENT FLEXIBILITY

Not only is the VX 9000 easy to deploy, it also brings a new level of ease to WLAN deployment. The VX 9000 supports virtually any server and all the leading, commercially available Hypervisors for fast and seamless integration into your existing network infrastructure — without adding any new hardware. In addition, you can run multiple instances of the VX 9000 on a single server, substantially reducing cost, space and power requirements in the Network Operations Center (NOC). With the ability to run in a private or public cloud, you have the freedom to choose the model that works best for your business — install on your own servers in your NOC or lease a server in the public cloud. And with built-in hierarchical management, equipment discovery and configuration is automated, bringing true plug-and-play simplicity to WLAN deployment.

### CLOUD READY WITH COST-EFFICIENT INFINITE SCALABILITY

With the VX 9000, you simply pay as you grow — just purchase the amount of access point licenses you need today and easily add whatever you need in the future. There is no need to purchase a different controller for different access point capacities — each instance of the VX 9000 can support up to 25,000 access points, providing a real scalable solution for cloud deployments.

### ACHIEVE CONSTANT AVAILABILITY — EASILY AND COST-EFFECTIVELY

With virtualization, server resource utilization improves, server management is simplified and the need for single purpose appliances is eliminated. In addition, live migration improves service availability — the VX 9000 can be automatically and seamlessly moved in the event of a server issue.

### WiNG 5 ADVANCED OS DELIVERS SUPERIOR WLAN PERFORMANCE RIGHT TO THE NETWORK EDGE

The WiNG 5 operating system empowers every piece of infrastructure in your WLAN with the intelligence required to work together to route every transmission as efficiently as possible. Now, controllers as well as standalone independent access points and adaptive access points adopted by physical or virtual controllers located in remote offices, the network operating center (NOC) or the cloud are all “network aware”. The result? The need to route all traffic through a centralized controller is eliminated — along with the associated congestion and latency. Since all features are available at the access layer, they remain available even when the VX 9000 is offline — for example, due to a WAN outage — ensuring extraordinary site survivability, network resilience, network throughput and quality of service.

## FEATURES

### Comprehensive integrated network security services

Features include: a wired/wireless firewall, a built-in wireless intrusion protection system (IPS), an integrated IPSec VPN gateway, AAA Radius Server and secure guest access with a captive web portal, MAC-based authentication, 802.11w to secure management frames, NAC support, anomaly analysis and advanced security services, such as role-based firewall.

### Advanced WiNG 5 OS

The WiNG 5 OS provides the advanced brainpower required to create the “fully network aware” WLAN, allowing every piece of infrastructure in your wireless network to work together to route every transmission as efficiently as possible.

### Plug-and-play

Fast and easy zero-touch installation plus rule-based access point and NX 4500/6500 adoption from all locations automates equipment discovery and deployment.

### Simplified license management for large distributed enterprises

Distribute and use licenses based on actual load per site/location — no need to provision each location individually; eliminates the need to provision devices in both local offices and the NOC with access point licenses.

**End-to-end support services**

Increase uptime and reduce support costs with our optional comprehensive support service offerings.

**EXTREME SECURITY**

Best-in-class true gap-free security keeps your network and your data safe. Robust security at the network edge stops malicious activity before it enters your network — instead of after it reaches a centralized controller deep inside your network. A full suite of security services — including Infrastructure Management, Security and Compliance as well as Network Assurance — provides everything you need to secure your wireless infrastructure, from remote troubleshooting, RF visualization and spectrum analysis to forensics and customized reporting.

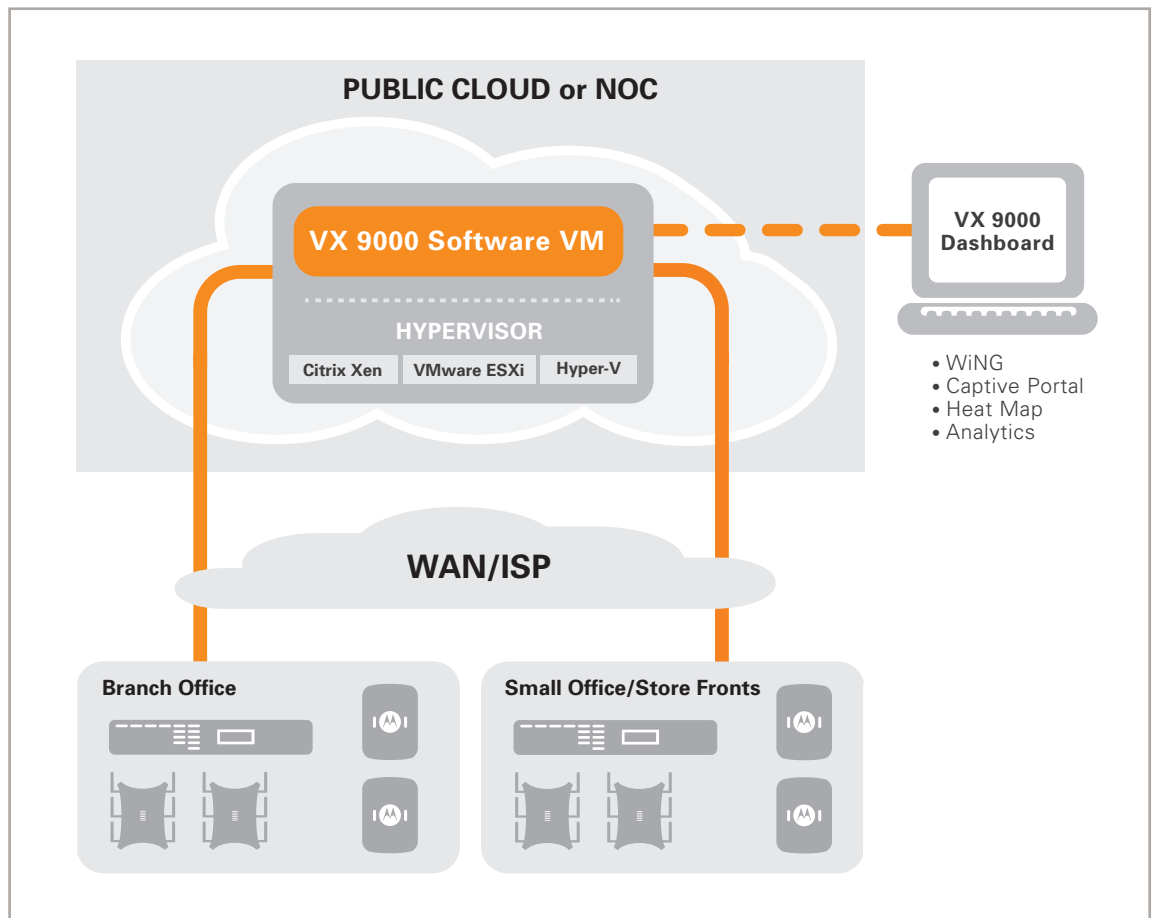
**HIERARCHICAL MANAGEMENT OF YOUR ENTIRE DISTRIBUTED NETWORK**

The VX 9000 hierarchical management system provides a single graphical user interface for the entire network, simplifying control and network management. A macro and micro view of your network allows you to simultaneously view all your branch locations or drill

down into any piece of infrastructure anywhere in your network — including access points that are adopted directly by the NX 7500 as well as NX 4500/6500 and RFS 4000 branch-level controllers and their adopted and standalone WiNG 5 access points. The result? Better monitoring and managing of the network, with less time spent on network management.

**END-TO-END SUPPORT**

As a leader in enterprise mobility, Motorola Solutions support programs offer from-the-manufacturer expertise, along with the experience gained from supporting some of the world’s leading companies. Our services help ensure your WLAN achieves the peak performance required to meet your business needs. This end-to-end comprehensive portfolio of services offers assistance at every phase of network lifecycle — from planning and implementation to post-deployment everyday support — helping reduce risk as well as capital and operational costs, while improving network uptime.



# TECHNICAL SPECIFICATIONS

## SUPPORTED HYPERVISORS AND CLOUD ENVIRONMENTS

- VMware ESXi
- Citrix Xen
- Microsoft Hyper-V
- Amazon EC2 Cloud

## RECOMMENDED SERVER RESOURCE CHARACTERIZATION

Capacity (APs)	100*	500	1,000	2,000	5,000	10,000
<b>vCPUs</b>	2	1	1	2	2	2
<b>CPU Clock</b>	1.5 GHz	1.5 GHz	2 GHz	1.5 GHz	1.5 GHz	2 GHz
<b>Memory</b>	3 GB	3 GB	3 GB	4 GB	4 GB	4 GB
<b>Disk Space</b>	3 GB	3 GB	3 GB	3 GB	3 GB	3 GB
Capacity (APs) (with Analytics)	100*	500	1,000	2,000	5,000	10,000
<b>vCPUs</b>	2	2	2	2	2	3
<b>CPU Clock</b>	2 GHz	1.5 GHz	2 GHz	2 GHz	2.4 GHz	2.4 GHz
<b>Memory</b>	4 GB	4 GB	4 GB	5 GB	5 GB	5 GB
<b>Disk Space</b>	6 GB	6 GB	6 GB	6 GB	6 GB	6 GB

\* Supports dataplane

## PRODUCT SKUs

Software — Virtual Appliance SKUs	
<b>VX-9000-0000-00-WR</b>	VX-9000 Software SKU
<b>VX-9000-DEMO-WR</b>	VX-9000 Demo Software SKU (60-day trial with built in 16-AP port license)
Licenses	
<b>VX-9000-APPLNC-LIC</b>	VX-9000 appliance license
<b>VX-9000-ADP-16</b>	16x Adaptive Access Point license pack for VX-9000
<b>VX-9000-ADP-64</b>	64x Adaptive Access Point license pack for VX-9000
<b>VX-9000-ADP-256</b>	256x Adaptive Access Point license pack for VX-9000
<b>VX-9000-ADP-512</b>	512x Adaptive Access Point license pack for VX-9000
<b>VX-9000-ADP-1024</b>	1024x Adaptive Access Point license pack for VX-9000

Achieve a new level of simplicity and cost-efficiency for your advanced, high-performance WLAN with the **VX 9000**.

For more information on the VX 9000, please visit [www.motorolasolutions.com/wlan](http://www.motorolasolutions.com/wlan) or access our global contact directory at [www.motorolasolutions.com/contactus](http://www.motorolasolutions.com/contactus)