CENTRAL CONTROL AND REMOTE TROUBLESHOOTING FOR 10,000 ACCESS POINTS

NX 9000 NOC CONTROLLER

As wireless applications are needed at more and more sites in your organization, how can you scale your wireless network efficiently while making sure you can meet the growing demands that will be placed on it? Using our WiNG 5 WLAN architecture and our NX 9000 NOC Controller, you can minimize your capital expenditure while making deployment, control and remote troubleshooting easier through the use of a single controller interface.

The NX 9000 NOC Controller lets you centrally control networks of 1,000 to 10,000 WLAN access points that are geographically dispersed over many small or medium sized enterprise locations. Clusters of up to 24 WiNG 5 access points intelligently handle traffic flows, QoS, mobility and security at the remote distributed locations while the NX 9000 provides a single point for configuration, policy setting and remote troubleshooting. Hotspot configuration, security policy management, statistics aggregation and DHCP/Radius/FTP services are all done by one powerful

NOC controller. This efficient WLAN architecture makes controlling the network easier and reduces the hardware OPEX needed to support large networks.

UNIQUE VALUE

The NX 9000 takes advantage of the WiNG 5 distributed intelligence to allow you high scalability. It provides zero-touch auto configuration for access points being deployed accross multiple distributed locations and manages firmware updates via local access points acting as RF domain managers so that WAN traffic is minimized. Because the WiNG 5 architecture handles direct forwarding, QoS and security at the access points, using one controller doesn't create a bottleneck in the network as would be expected in traditional hub-and-spoke architectures. The NX 9000 supports 1+1 failover for high availability with no additional licensing fees for the redundant system.

LESS IS MORE

Motorola's WiNG 5 WLAN solutions offer all the benefits of 11n—and then some. Our distributed architecture extends QoS, security and mobility services to the APs so you get optimal direct forwarding and network resilience. That means no bottleneck at the wireless controller immense scalability and wireless network capacity, no latency issues for voice applications, and no jitter in your streaming video. And with our broad selection of access points and flexible network configurations, you get the network you need with less hardware to buy. Let us show you the less complicated, less expensive way to more capacity, more agility, and more satisfied users.

NX 9000 NOC CONTROLLER SPECIFICATIONS CHART

PROCESSOR

Intel® 2.33GHz Xeon® 5140 Dual-Core Processor

4 MB shared L2 cache and 1333 MHz FSB

MEMORY

8 GB RAM

Error Correcting Code Fully Buffered DDR2

HARD DRIVES

2 x 500 GB 7,200 RPM Serial ATA hard drives

High reliability Seagate drives with 1.2M hours MTBF

RAID 1 configuration

COMMUNICATION PORTS

One RJ 45 for console access

2 GigE ports

BAYS

Slim Line DVD/CD-ROM

POWER

1 + 1 Redundant power system

500 W PFC auto-ranging power supply
 o Full Range: 100 ~ 240 VAC at 50 ~ 60 Hz

Steady-state current
 o 2A Nominal, 8A max. at 115V
 o 1A Nominal, 4A max. at 230V

Inrush current (at 25°C/77°F ambient cold start for each power unit):
 o 60A max. at 115V
 o 100A max. at 230V

WEIGHT

Without packaging: 24 kg (55 lbs)

With packaging: 29 kg (65 lbs)

DIMENSIONS

Server appliance dimensions:
 o 89 mm (H) x 419 mm (W) x 546 mm (D)
 o 3.5"(H) x 16.5"(W) x 21.5"(D)

Sliding rail kit: 660mm (26")

With packaging:
 o 254 mm (H) x 572 mm (W) x 737 mm (D)
 o 10"(H) x 22.5"(W) x 29"(D)

ENVIRONMENTAL

Operating temperature: 0°C to +40°C (+32°F to +104°F) with maximum rate of change not to exceed 10°C (50°F) per hour

Non-operating temperature: -20°C to +70°C (-4°F to +158°F)

Relative Humidity – Non-Operating: 90% non-condensing @ 35°C (95°F)

System cooling requirements: 2700 BTU/hour max.

CERTIFICATION

RoHS 2002/95/EC

UL/cUL 60950-1, IEC/EN 60950-1

FCC 47 CFR Part 15 Sub part B

ICES-003, Class A

EN 55022/55024/61000

SCALABILITY

Up to 10,240 WiNG 5 802.11n access points

HIGH AVAILABILITY

N+1 failover with no additional port licensing fees

ACCESS POINTS

AP 650, AP 6511, AP 6532, AP 7131 with WiNG 5

CONFIGURATION CONTROL

All WiNG 5 features for policy management including AP zero touch adoption, WLAN/VLAN, QoS, Mobility, Firewall with role based configuration, WIPS, Event History, SMART RF configuration per RF Domain, Hotspot Configuration, Image Storage for All APs. All these features are enforced at the network edge with the WiNG 5 Access Points.

NETWORK SERVICES

Central DHCP server, Radius server, FTP server

HEATMAPS AND CLIENT VISUALIZATIONS

See APs on Floormaps and see Clients Associated, Client Roaming History. Coverage Heatmaps on Floorplans.

TROUBLESHOOTING

Remote Debug Features, Packet Capture, Statistics and Syslog

PHYSICAL DISPLAY

LEDs and LCD Display Showing Model & Firmware Version

For more information on how the NX 9000 can benefit your business, please visit us on the web at motorola.com/wlan

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