Juniper Networks **WX Central Management System (CMS) Software**

for WX and WXC Application Acceleration Platforms

The WX™ Central Management System™ (CMS™) software from Juniper Networks offers a powerful, intuitive solution for centrally managing, monitoring, and configuring Juniper WX™ and WXC™ application acceleration platforms distributed throughout an enterprise.   Running on Microsoft Windows 2000 and 2003 servers, the WX CMS software supports multiple versions of the WX Operating System (WXOS™) software and can be accessed securely from any compatible browser connection via HTTPS.

WX CMS Software: The "My WAN" monitoring portal provides IT with a customized view of the health and performance of all deployed WX and WXC platforms.

The WX CMS software provides unprecedented visibility into how applications are performing over the WAN, offering detailed information about traffic patterns, bandwidth consumption, and other performance trends that IT can use to maximize WAN resources.

The monitoring software also helps IT learn how users and applications are interacting over the WAN, reporting on bandwidth consumption, top talkers, and how Quality of Service (QoS) policies are impacting overall application throughput. Armed with this insight, IT can quickly pinpoint trouble spots, determine whether the WAN is at fault, and drill down to identify and resolve problems.

The WX CMS software also provides visibility into each element of the WX Framework, which defines the attributes required to accelerate application performance over the WAN. With the WX CMS software, IT can manage additional WAN capacity created by Molecular Sequence Reduction™ (MSR™) and Network Sequence Mirroring™ (NSM™) technologies, see the impact that Packet Flow Acceleration™ (PFA™) and Application Flow Acceleration™ (AppFlow™) technologies have on application performance, allocate bandwidth and prioritize applications through QoS, and direct applications over multiple WAN links with the Policy-based Multipath™ feature.

WX CMS Software Features

The WX CMS software provides the following benefits for any deployment of multiple Juniper WX and WXC application acceleration platforms:

- **Provides multi-level visibility into WAN applications and performance:** The WX CMS software provides IT a complete view into what is happening on their WAN links. Executive Summary reports provide an at-a-glance view of key traffic, performance, and reduction results. The "My WAN™" portal allows IT staff to create customized views into the performance metrics of devices and sites they want to focus on—including application mix, bandwidth consumption, and application performance—to enable quick problem diagnosis and troubleshooting. Drill-down reports are available by site, device, and link to view details on WAN throughput, path monitoring, top talkers, and other statistics.

- **Centralizes and simplifies platform configuration:** The WX CMS software represents a single point from which to manage as many as 2,000 Juniper WX and WXC application acceleration platforms. IT can leverage the WX CMS software to schedule key upgrade and management tasks as well as to perform updates such as rolling out new software revisions to all devices at once.

- **Provides global policies and monitoring:** The WX CMS software allows network managers to centrally manage and modify global configuration settings on all WX and WXC devices. IT can also monitor all WX and WXC platforms, with status reports providing at-a-glance summaries of device health, configuration status, and compression and acceleration statistics.

- **Automates deployment and license management:** Using the WX CMS software, IT can automate configuration of remote WX and WXC devices, greatly simplifying the set-up of tens or hundreds of distributed platforms. IT can also use the WX CMS software to automate license management, simplifying the administration of a large deployment.

- **Supports segmented access control:** The WX CMS software allows devices to be segmented into multiple groups for access control and reporting purposes. User groups can also be created and assigned to specific device groups, enabling administrators to control access by establishing read/write or read only privileges.

WX Central Management System (CMS) Software Requirements and Scalability

Platform: Windows Server 2000 SP3 or Windows Server 2003

Web browser: IE 5.5 or 6.0

Number of simultaneous users: 50

Number of platforms: 2,000

Supported devices: All platforms running WXOS v5.x or higher

# Devices	Pentium 4 CPU (GHz)	RAM	Disk Space (GB)
Under 100	2.0 +	768 MB	40 +
Under 100	2.0 +	768 MB	40 +
100-500	2.8 +	1.5 GB	60 +
500-1000	3.0 +	2.0 GB	80 +
1000-1500	3.2 +	3.0 GB	100 +
1500-2000	3.2 + dual CPU	4.0 GB	120 +

Key Features

Configuration

Full centralized configuration:	Dramatically simplifies large deployments
Configuration templates:	Enables quick replication to dozens or hundreds of WX and WXC platforms
Reuse deployed configurations:	Helps in rapid deployment of new WX and WXC devices
View and compare configurations:	Line-by-line comparison highlights differences
Track configuration changes:	Simplifies troubleshooting
Automated deployment:	Requires remote site to provide only power, Ethernet, and DHCP
Device software upgrades:	Easily and quickly roll out new features to full deployment
Scheduling of tasks:	On a one-time or recurring basis for tasks such as software updates, configuration changes, and configuration backups

Monitoring

View feature status:	Per device, per application, with a global view of all reduction, acceleration, and QoS statistics
View top talkers:	By user, device, and subnet
At-a-glance device status:	Shows current status, features enabled, any errors
Automatic data collection	Polls for statistics on traffic, reduction, QoS, and acceleration results
Storage of monitoring data:	Up to one year

Security

Multiple access levels:	Three: administrator, read/write, read-only
SSL to WX and WXC devices:	Ensures secure device administration
Configurable port number for remote access:	Allows changing port number from "80" to any user-chosen value
Access lists for remote access:	Include and exclude lists for IP addresses that can access WX CMS software
User/group access control:	Allows granular access to individual devices or groups of devices
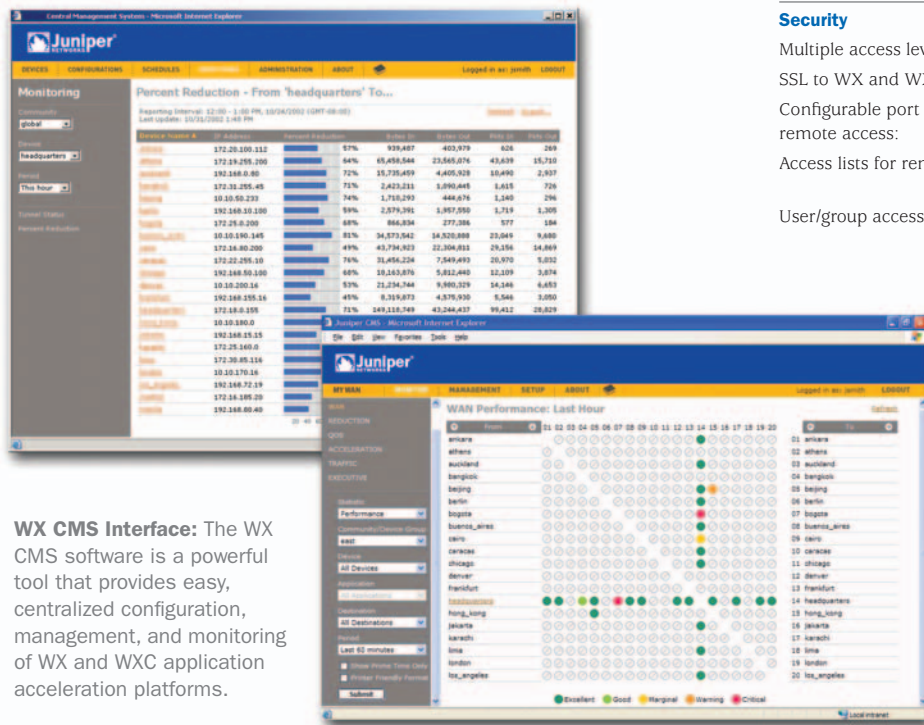
WX CMS Interface: The WX CMS software is a powerful tool that provides easy, centralized configuration, management, and monitoring of WX and WXC application acceleration platforms.