Intelligent Network Management System

Comprehensive Network Visibility and Management for Wireless and Fixed Networks
Network Performance Analysis Made Easy

With the increase in wireless network sizes and network complexities and the inter-operation of diverse wireless and LAN equipment, managing your wireless and fixed network requires a new approach.

Cooper Bussmann Network Management System

The Cooper Bussmann Network Management System (NMS) is a powerful, flexible and highly scalable wireless and fixed network management solution for thousands of network nodes that enables administrators to cost effectively plan, deploy, monitor, control, troubleshoot and report on fixed and wireless networks from a centralized location.

The Network Management System is designed to transform low-level data into high-level, easy-to-understand concepts, and at the same time to help you to drill down from high-level performance indicators to identify low level issues.

Control Your Network and Stay on Top of Your Operations from Anywhere

The Cooper Bussmann Network Management System is easy to install and can be seamlessly integrated into your existing wireless network. The Intelligent Network Management System increases productivity, simplifies operational processes, increases network quality and reduces operating costs.

- Complete: Powerful and comprehensive solution to cost effectively plan, deploy, monitor, control and troubleshoot your wireless and fixed network.
- Flexible: Create your own dashboard view for all devices connected to the network and performance status, and it shows exactly the view you want.
- Reliable: Increase your network performance and reliability through proactive network analysis and intelligent control.
- Efficient: Immediate fault notifications and the availability of key metrics and status information decreases fault resolution time and increases resource efficiency.
- Pro Active: Detect problems before network outages occur to reduce impact on business activities.
- Intuitive: Easy to install, integrate and use.
- Scalable: Its distributed server architecture and network scalability allows thousands of wireless and LAN based devices being monitored and controlled.
- Safe Guards: Security notification in real-time if an unauthorized wireless device accesses the network or security settings are changed.

The Cooper Bussmann NMS can monitor from a few devices to thousands of wireless devices and IT equipment.
Network Management System Features

The Network Management System provides a single consolidated view of the network with a graphical representation of all network elements, allowing you to monitor the performance of your network. Through in-depth visibility of your network and analysis of the performance, you not only achieve better uptime and system throughput, but overall increased efficiency of your network and utilization of network devices.

Network Visualization
The NMS offers an intuitive user interface with virtual network topology and map-based visualization capabilities, utilizing Google Map or Satellite View. Its practical navigation and graphical representation of network information and alerts makes it an easy, manageable system to monitor and control. It provides a central view of the network with visual clues for node and link status, and with a simple point-and-click operation all node information can easily be accessed.

Flexible, Web-based Technology
The NMS supports various hardware configurations from laptop to desktop to high-performing server depending on the size of the network, low or high latency applications and the number of simultaneous users accessing the network. It supports up to 64 simultaneous users who can access the system from anywhere.

Notifications and Diagnostics
If you are in the office or on the road, the Network Management System will keep you informed of any abnormalities of the network, and allow you to access the system from anywhere with WiFi connectivity to take appropriate actions. Network node and network link performance parameters are collected continuously and warning thresholds, which are configurable by the user, will generate notifications before any major network degradation occurs.

Network Management with Just a Few Clicks
Managing your network is made easy with the Cooper Bussmann NMS. Access device information with just one click. Get a quick health and score card. Administrative tools provide for easy management of your network.

Monitoring and Performance Analysis
Proactive network monitoring with performance thresholds can trigger events and actions, which may detect minor issues ahead of serious network degradation. This reduces unscheduled downtime and improves reliability. RF related diagnostic parameters and statistics will help you analyze and identify potential problems.

Fault and Alarm Management
Alarms are generated in real-time, time-stamped and made visible via color coded icons. Each alarm can be individually acknowledged or is automatically cleared after fault recovery, and every event can trigger notifications via SMS or Email according to a user defined escalation policy.

Security and Account Management
The system administration management enhances security by enforcing user name and password login capabilities and by defining role-based user policies. The system administrator can identify network attacks and vulnerabilities, and instantly terminate the connection to any device.

Histotization and Reporting
Centralized data and event management is a powerful tool that provides statistical information and performance trending graphs on a system, device or device group basis. Intuitive graphical performance management reports are easily generated and exported via CSV or pdf.
End-to-End Industrial Networking Solutions

Cooper Bussmann offers the industry’s most comprehensive industrial networking solution for wired and wireless networks. Our complete line of wireless, ethernet switching and network management products delivers an infrastructure for your critical assets that is flexible, productive, safe and easily managed.

Applications:

- Oil & Gas
- Water/Wastewater
- Mining
- Pharmaceutical
- Power

Our industrial automation and connectivity solutions are used in a variety of applications in the Water/Wastewater, Oil & Gas, Mining, Chemical, Pharmaceutical and Solar industries.

We offer software and hardware support, including telephone support, remote support and on-site support to ensure your system is running smoothly.

Ask us for a free demo and trial demo license.

Network Management System Specifications:

<table>
<thead>
<tr>
<th>Type</th>
<th>Web-based technology software</th>
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<tbody>
<tr>
<td>Users</td>
<td>64 simultaneous users from anywhere</td>
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<tr>
<td>Network Size</td>
<td>Management of 1,000+ Nodes</td>
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<tr>
<td>Hardware Configurations</td>
<td>Laptop, Desktop PC or any type of high performing server</td>
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<tr>
<td>Device Support</td>
<td>ELPRO wireless devices, SNMP-capable wireless devices and any standard LAN equipment</td>
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<td>Integration</td>
<td>3rd party wireless devices and LAN equipment</td>
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System Requirements:

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<thead>
<tr>
<th>Operating Systems</th>
<th>Windows XP, Windows 7 and Linuxx</th>
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<tr>
<td>Browsers</td>
<td>Microsoft Internet Explorer, Mozilla Firefox and Chrome</td>
</tr>
<tr>
<td>VMware Player</td>
<td>Version 4.0.4</td>
</tr>
<tr>
<td>Free Hard Disc Space</td>
<td>150GB</td>
</tr>
<tr>
<td>50 or Less Devices</td>
<td>Basic PC or Laptop with a minimum of 4GB of RAM, Single core processor 2+GHz</td>
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<tr>
<td>51 to 200 Devices</td>
<td>Intermediate machine with a minimum of 4GB of RAM, Dual core processor 2+GHz</td>
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<tr>
<td>200 to 500 Devices</td>
<td>High-end PC with a minimum of 6GB of RAM, Quad core processor 2+GHz</td>
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<tr>
<td>500 to 1000 Devices</td>
<td>Server class with a minimum of 8GB of RAM, Quad core processor 2+GHz</td>
</tr>
<tr>
<td>1000 to 2000 Devices</td>
<td>Server class with a minimum of 10 GB of RAM, 8 core processor 2+GHz, free hard disc space of 200 GB</td>
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<tr>
<td>2000 to 3000 Devices</td>
<td>Server class with a minimum of 14 GB of RAM, 12 core processor 2+GHz, free hard disc space of 250 GB</td>
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<tr>
<td>3000 to 4000 Devices</td>
<td>Server class with a minimum of 18 GB of RAM, 16 core processor 2+GHz, free hard disc space of 300 GB</td>
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For more than 30 years, the Cooper Bussmann ELPRO brand of products have provided complete wireless monitoring and control solutions to the industrial market. Offering a comprehensive range of industrial wireless products, global technical support and over 100 technically qualified partners worldwide, Cooper Bussmann is a market leader in industrial wireless technology today. With numerous solutions deployed worldwide in process, instrumentation and automation applications, ELPRO has a solution for your application need.

www.cooperbussmann.com/wireless

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