

## RoboMon NT/2000 - Cisco Intelligent Solution Set

### Automated management for Cisco devices

#### Manage Any Cisco Environment Better

RoboMon's Cisco Intelligent Solution Set provides easily configurable, proactive monitoring and problem solving for any size environment that includes Cisco devices. This provides increased reliability and efficiency for crucial operations such as those of eBusiness. RoboMon's automated, out-of-the-box Cisco Intelligent Solution Set operates through an integrated set of rules that detect and correct problems before your users experience failures or slowdowns. It monitors all aspects of Cisco availability and performance, including:

- Basic operations, such as whether the Cisco device is available or unavailable,
- Performance criteria, such as CPU bottlenecks and memory shortages on each device, and
- Environmental conditions, such as ambient air temperature and voltage flow through the device.

RoboMon can diagnose and correct problems on the spot, or escalate them to your attention at a central monitoring location.

#### Key Benefits

- Works out of the box, with no setup time
- Configures to any size Cisco environment
- Fixes problems automatically, focuses your staff's time on the issues you target
- Allows centralized monitoring of remote systems
- May be precisely customized for each environment
- Provides intuitive, graphical interface for management and customization
- Integrates with RoboMon's enterprise-wide eBusiness infrastructure management solution (see below)

#### What RoboMon's Cisco Intelligent Solution Set Monitors

RoboMon's Cisco Intelligent Solution Set provides comprehensive monitoring and management of running Cisco devices. Specific rules are designed to:

- Monitor the state of Cisco devices and raise an alert when a device is

unavailable, which could indicate that the device is down, or that there are problems with the network connection or the SNMP service

- Raise an alert at excessive CPU usage or reduced amount of free memory, which could result in severely degraded network performance
- Monitor the environmental card for test point warning flags, which may cause the device to suffer heat-related or electrical damage
- Monitor buffer allocation failures, buffer create failures, and buffer element misses, which may result in lost data packets

#### What Rules Mean to You

RoboMon rules work out-of-the-box, with no tweaking, for any size Cisco configuration. In addition, each RoboMon rule may be completely customized, allowing precise control over threshold settings through the Solutions Manager, as well as actions to be taken, required notifications and alerts. RoboMon's intuitive, graphical Rule Designer allows you to tailor rules and create new rules without writing a single line of code. Customized rules may be deployed to individual machines, domains or throughout the enterprise, via simple, efficient, drag & drop operations in the RoboMon Enterprise Manager.

#### RoboMon NT/2000 Event Monitor

The screenshot shows the RoboMon Event Monitor interface. At the top, it says "Robomon Event Monitor - All Events for RoboMon Event Database on \\BASE". Below that is a menu bar with "File", "Monitor", "View", "Event", "Detail", "Tools", and "Help". A toolbar contains icons for various actions. The main area is a table of events:

EventDateTime	Class	SubClass	Computer		RuleName
10/28/99 04:02:58 PM	CISCO	CPU	HUB	!	CISCO_CPU
10/28/99 04:00:18 PM	AUTOMATION	NETWORK	EAST	!	UNREACHABLE_COMPUTERS
10/28/99 04:00:18 PM	AUTOMATION	NETWORK	EAST	!	UNREACHABLE_COMPUTERS
10/28/99 02:01:32 PM	IIS	IIS CACHE	GLOBAL	!	IIS_CACHE_ALERT
10/28/99 02:01:28 PM	IIS	IIS PROCESS	GLOBAL	!	IIS_PROCESS_POOL_LEAK
10/27/99 11:00:09 PM	AUTOMATION	PAGE_FILE	EAST	!	PAGE_FILE_LOAD
10/27/99 11:00:01 PM	IIS	IIS SERVICES	EAST	!	IIS_SERVICES

Below the table, there is a detailed view of the selected event:

Updated severity 1 problem for computer HUB at 10/28/99 04:02:58 PM.  
Generated by rule CISCO\_CPU of type CPU in CISCO.

The CPU usage on the Cisco device at IP address 108.253.611.1 is critical.

Over the last 5 minutes, the average CPU usage on the Cisco device at IP address 108.253.611.1, HUB, has been critical at 83 percent.

At the bottom of the window, it says "Ready" and "7 events 10/28/99 4:15:26 PM".

## The Total RoboMon Solution

RoboMon for Windows NT/2000 is automated eBusiness infrastructure management software that detects and corrects complex application, system and network problems to ensure the highest levels of availability and performance.

RoboMon includes a suite of pre-defined rules, called Intelligent Solution Sets, that work out of the box to detect and correct problems with applications, systems and networks, including Windows NT/2000, Microsoft BackOffice, and SNMP-based network components.

RoboMon may be configured to notify staff of problems in real time, or to take corrective action independently and monitor the results for success. RoboMon's many notification options include paging, e-mail, SNMP trap, net send messages, and centralized event reporting through the Event Monitor, enabling it to integrate with and supplement your current staff notification practices.

## Where RoboMon's Cisco Intelligent Solution Set Gets Its Data

- Cisco Management Information Base (MIB)

## RoboMon's Cisco Rules

### Buffer\_Allocation\_Failures

Monitors the Cisco device for buffer allocation failures.

### Buffer\_Create\_Failures

Monitors the number of buffer create failures caused by insufficient memory.

### Buffer\_Element\_Misses

Monitors for an increase in the number of buffer element misses, and compares it to the user defined maximum.

### Cisco\_CPU

Monitors the CPU busy percentage of the Cisco device.

### Device\_Memory

Monitors the percentage of free memory on the Cisco device.

### Device\_Status

Monitors the status (available/not available) of the Cisco device.

### Env\_Card\_Warnings

Monitors the environmental card test point warning flags.

### Environmental\_Card

Checks at start up for the presence of an environmental card in the Cisco device.

### Reload\_Status

Monitors for changes in the reason for the last reload of the System Bootstrap for the Cisco device.

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