

RoboMon NT/2000 - Active Directory Intelligent Solution Set

Automated management for Microsoft® Windows® 2000 Active Directory™ Services

Manage Any Active Directory Environment Better

RoboMon's Active Directory Intelligent Solution Set provides easily configurable proactive monitoring and problem solving for any size environment that utilizes Windows 2000 Active Directory Services on domain controllers. This provides integrated management consistent with the innate scalability of Active Directory technology, an advantage particularly crucial for growing eBusiness operations. RoboMon's automated, out-of-the-box Active Directory Intelligent Solution Set operates through an integrated set of rules that detect and correct problems before your users experience failures or slow-downs. It monitors all aspects of Active Directory availability and performance, including:

- The efficiency and success of queries within and across domains, and
- The replication of directory information across the enterprise

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
- Detects 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 total eBusiness infrastructure management solution (see below)

What RoboMon's Active Directory Intelligent Solution Set Monitors

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

- Monitor success and efficiency of directory store searches, including: percentage that return in an error condition, percentage of failures to acquire a binding handle, and percentage of directory store objects in error due to a missing DN or GUID
- Monitor the DNS dynamic update process, including the length of the update queue, and the number of failed updates due to timeout or rejection by the DNS server
- Monitor all aspects of the directory replication process, including: file replica set (FRS) file install errors; authentication failures; bind failures; aborted, evaporated and retried change orders; and unsent control/data packets
- Track response and failure rates of full and incremental DNS zone transfers, alerting you to unnecessary traffic on the network
- Flag failure of notifications sent from the primary to the secondary DNS server, as well as percentage of failed recursive queries
- Raise an alert when the DNS server fails to respond to a minimum percentage of queries
- Track failure levels for DNS server secure updates
- Alert you to NTDS synchronization failures, which may be due to faulty transmission lines or network interface cards



RoboMon NT/2000 Event Monitor

Robomon Event Monitor - All Events for RoboMon Event Database on \\BASE

File Monitor View Event Detail Tools Help

Open problems for Enterprise

EventDateTime	Class	SubClass	Computer	I	RuleName
10/28/99 04:02:58 PM	ACTIVE DIREC...	QUERY RESPONSE	DNS_1	!	QUERY_RESPONSE
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

Updated severity 1 problem for computer DNS_1 at 10/28/99 04:02:58 PM.
Generated by rule QUERY_RESPONSE of type QUERY RESPONSE in ACTIVE DIRECTORY.

Query response is poor on DNS server DNS_1.

During the last 15 minutes, only 78 percent of all queries sent to DNS server DNS_1 received a response. The minimum acceptable response percentage, as defined in the RoboMon Solutions Manager, is 80 percent.

Ready 7 events 10/28/99 4:15:26 PM

What Rules Mean to You

RoboMon rules work out-of-the-box, with no tweaking, for any size Active Directory 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.

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 Active Directory Intelligent Solution Set Gets Its Data

- Perfmon counters

RoboMon's Active Directory Rules

Announce_ActiveDirectory

Announces the start of the rule process.

Directory_Store_Bind_Errors

Monitors the percentage of attempts to acquire a binding handle to a directory store that resulted in failure.

Directory_Store_Object_Errors

Monitors the percentage of directory store objects reported as in error due to a missing distinguished name, GUID, or relative distinguished name.

Directory_Store_Search_Errors

Monitors the percentage of directory store searches that returned with an error condition.

Dynamic_Update_Queue

Monitors the length of the DNS dynamic update queue.

Dynamic_Update_Timeouts

Monitors the number of DNS dynamic updates timed-out by the DNS server.

Dynamic_Updates_Rejected

Monitors the number of DNS dynamic updates rejected by the DNS server.

File_Install_Errors

Monitors the percentage of file replica set file installs that resulted in an error.

FRS_Authentication_Failures

Monitors the level of File Replica Set authentication failures.

FRS_Bind_Failures

Monitors the percentage of failed RPC bind attempts attributed to the file replica set.

FRS_Change_Orders_Aborted

Monitors the percentage of file replica set change orders that are aborted.

FRS_Change_Orders_Evaporated

Monitors the percentage of file replica set change orders that are evaporated.

FRS_Change_Orders_Retried

Monitors the percentage of file replica set change orders that are retried.

Full_Zone_Transfer

Monitors the response rate and failure rate of DNS full zone transfers.

Incremental_Zone_Transfer

Monitors the response rate and failure rate of DNS incremental zone transfers.

Notification_Failures

Monitors failure of notifications sent from the primary to the secondary DNS server.

Packet_Errors

Monitors the percentage of control/data packets not sent to an outbound replication partner due to some error condition.

Query_Response

Monitors the percentage of queries to the DNS server which receive a response, generating an event if the percentage drops below the threshold defined in the RoboMon Solutions Manager.

Recursive_Query_Failures

Monitors the percentage of failed recursive queries to the DNS server.

Secure_Update_Failures

Monitors failure levels for DNS server secure updates.

Synchronization_Failures

Monitors the number of NTDS synchronization failures.



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