

Solutions: Network Device, NetFlow & DHCP

Description: The Longitude Network Device, NetFlow and DHCP solutions provide out-of-the-box monitoring for your network. Longitude proactively monitors key metrics to ensure that your network is running optimally and alerts you when there is a problem. Longitude also provides pre-configured, on-demand reports and graphs of key performance metrics to help you proactively take action and ensure maximum availability.

Longitude also helps pinpoint difficult network flow issues – is traffic attributable to legitimate business activities or a “must-see” video on YouTube? Longitude NetFlow reports help you understand network traffic in your LAN or WAN, and pinpoint user behaviors that may be contributing to slowdowns in network response:

- Identify bandwidth hogs
- Distinguish between business and personal use of resources
- Detect potential network threats
- Avert unnecessary network capacity upgrades

Rules:

Rule	Description
Network Device	
Ndv_BadCommNameAlert	Reports when attempts are made to connect to the Network Device via SNMP with an incorrect Community Name.
Ndv_HighBandwidthUtil	Reports High Bandwidth Utilization.
Ndv_PktErrors	Reports when a High Number of IP Packet errors are detected.
Ndv_TCPConnections	Reports when a High Number of TCP Connections are detected.
Ndv_TCPErrors	Reports when a High Number of TCP errors are detected.
Ndv_TCPRetransmits	Reports when a High Number of TCP Retransmits are detected.
Ndv_UDPErrors	Reports when a High Number of UDP errors are detected.
Ndv_LongQLen	Reports when a long Output Queue Length is detected.
Ndv_TotalSecurityViolations	Reports MIP Security Violations.
Ndv_MobileIPtrap	Reports Mobile IP Events.
Ndv_ParamsReset	Reports when device parameter changes via SNMP have been detected.
Ndv_StatusCheck	Reports a Device Status if other than Operational.
Ndv_HighIcmpErrors	Reports when a High Number of ICMP errors are detected.
DHCP	
Dcp_ServiceNotRunning	Reports when either the SNMP or DHCP service is not running.
Dcp_LowFreeAddresses	Reports when the number of free addresses in a scope is low.
Dcp_LowTotalFreeAddresses	Reports when the total number of free addresses across scopes is low.

Reports:

Report Type	Groupings Available	Data Shown
Network Device		
Bandwidth	Summary, Hourly Detail, Top Interfaces Per Device	KB Sent/Received, Sent/Received %, Total Kilobyte Rate, Output Queue Length
Buffer Misses	Summary, Hourly Detail	Buffer Misses by Buffer Size
CPU Load	Summary, Hourly Detail	Average CPU Load (%)
ICMP	Summary, Hourly Detail	Message Send/Receive Rate, Send/Receive Errors, Total Errors
Memory	Summary, Hourly Detail	Average Memory Usage (%)
IF Packets	Summary, Hourly Detail	Packet Send/Receive Rate, Total Packet Rate, Inbound/Outbound Errors, Inbound/Outbound Discard Rate, Total Discard Rate
SNMP	Summary, Hourly Detail	Packet Send/Receive Rate, Total Packet Rate, Object Set/Get Rate, Set Request Rate
TCP	Summary, Hourly Detail	Active/Passive Open Rate, Connections Closed, Established Resets, Current Connections, Segment Send/Receive Rate, Segments Retransmitted, Receive Errors, Send Packets Rst
UDP	Summary, Hourly Detail	Datagram Send/Receive Rate, No Application Errors, Other Inbound Errors
Netflow		
Top 10 Applications	Current/Last Hour, Current Day	Megabytes, Packets by Application (HTTP, etc.)
Top 10 Conversations	Current/Last Hour, Current Day	Megabytes, Packets by Conversation
Top 10 Destinations	Current/Last Hour, Current Day	Megabytes, Packets by Destination
Top 10 Protocols	Current/Last Hour, Current Day	Megabytes, Packets by Protocol (TCP, UDP, etc.)
Top 10 Sources	Current/Last Hour, Current Day	Megabytes, Packets by Source
DHCP		
Scope Address	Summary, Hourly Detail	Scope Used/Free Addresses, Used/Free Address %, Total Addresses



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