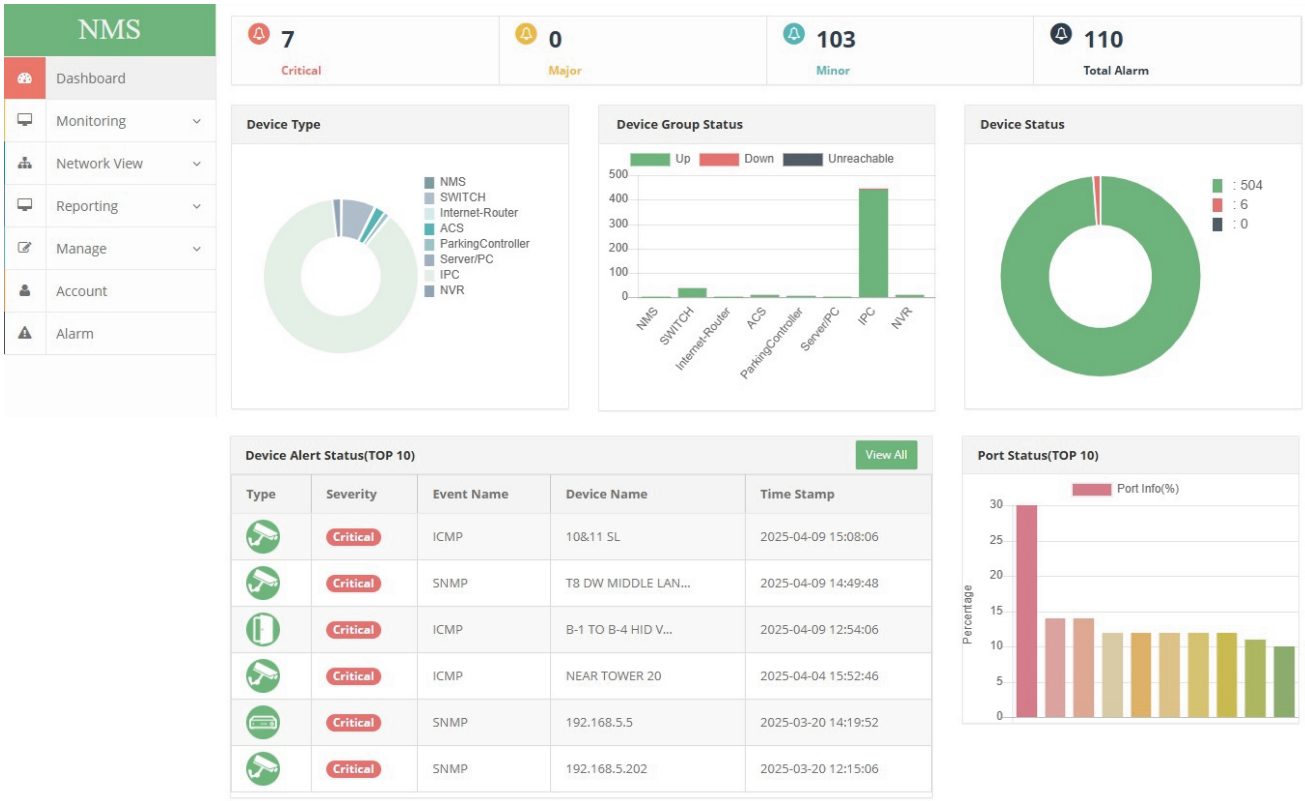
NETWORK MONITORING SYSTEM



Overview

Cyboshield NMS is a powerful and intuitive platform designed to help organizations monitor, manage, and optimize their network infrastructure. It provides real-time visibility into network performance, alerts administrators to potential issues before they impact operations, and offers tools for troubleshooting and maintaining a healthy network. With support for multi-vendor environments and a user-friendly interface, Cyboshield NMS is ideal for both small and large-scale networks, ensuring secure, efficient, and reliable connectivity across the board.

- The Cyboshield NMS includes a dashboard, which provides an overview of all devices connected to the network and their current status.
- Automated Device Discovery allows administrators to quickly identify any new devices on the network, while Automated Link Discovery helps them determine how these devices are connected.
- Topology Mapping Event Monitoring enables administrators to detect changes in the topology of the network and take corrective action if necessary.
- With these features, a Cyboshield NMS can help organizations keep their networks running smoothly and efficiently.
- Keep a finger on the pulse of your network performance. Monitor your network for any issues and address them quickly to ensure that customer service isn't compromised.
- Get complete visibility into your network. No blind spots, no surprises.

Device Down Status

Device Down Status

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Group	Device Name	IP	Parent
	192.168.5.5	192.168.5.5	CR-RACK-Core -> te1/0/1
	192.168.5.202	192.168.5.202	SW-CR-Rack-1 -> te1/0/8
	GARDEN AREA TOWE...	192.168.99.218	SW-Tower-No-11 -> fa17
	NEAR TOWER 20	192.168.99.229	N/A

E-Map

Group View

Group View

IPC	Total -445
Up	441
Down	4
Unreachable	0

SWITCH	Total -36
Up	36
Down	0
Unreachable	0

NVR	Total -9
Up	9
Down	0
Unreachable	0

ACS	Total -11
Up	10
Down	1
Unreachable	0

NMS	Total -1
Up	1
Down	0
Unreachable	0

ParkingControlle...	Total -6
Up	6
Down	0
Unreachable	0

Internet-Router	Total -1
Up	0

Server/PC	Total -1
Up	1

Device Status

Device Status

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Group	Device Name	IP	Parent Device	Event Name	Down Time	Up Time
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:25:19	2025-04-09 13:25:20
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:25:08	2025-04-09 13:25:09
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:20:14	2025-04-09 13:20:14
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:20:02	2025-04-09 13:20:03
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:15:15	2025-04-09 13:15:16
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:10:35	2025-04-09 13:10:52
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:10:27	2025-04-09 13:10:34
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:05:27	2025-04-09 13:05:33
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:05:10	2025-04-09 13:05:11
ACS	V1000-B-19 & B-2...	192.168.6.253	SW-Tower-No-19 -> fa19	SNMP	2025-04-09 13:00:15	2025-04-09 13:00:15

Alarm Details

Alarm Details

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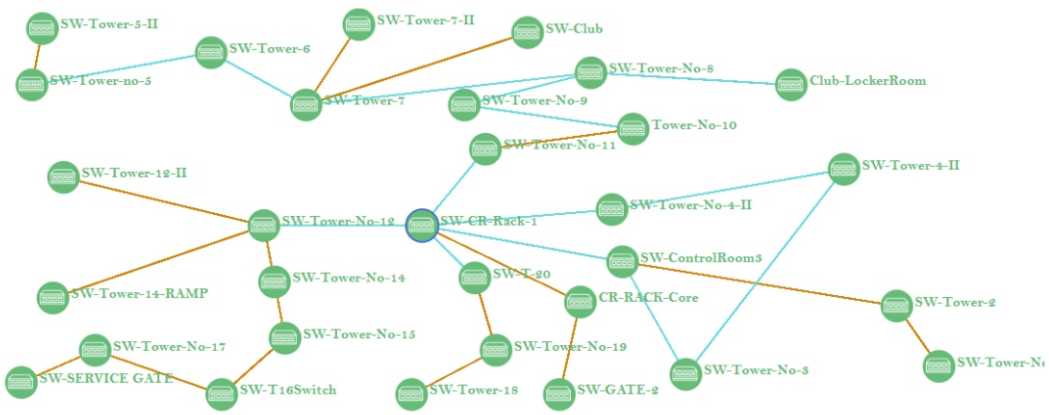
Alarm Name	Device Name	Type	IP	Severity	Start Time	End Time	SLA
Node is down	B-5 to B-7 HID V...	INFO	192.168.6.249	Critical	2025-04-09 00:00:20	2025-04-09 00:00:21	1:2:3
Node is down	B-5 to B-7 HID V...	INFO	192.168.6.249	Critical	2025-04-09 00:00:36	2025-04-09 00:01:21	1:2:3
Node is down	V1000-B-19 & B-2...	INFO	192.168.6.253	Critical	2025-04-09 00:04:11	2025-04-09 00:04:13	1:2:3
Node is down	B-5 to B-7 HID V...	INFO	192.168.6.249	Critical	2025-04-09 00:06:19	2025-04-09 00:06:37	1:2:3
Node is down	B-5 to B-7 HID V...	INFO	192.168.6.249	Critical	2025-04-09 00:06:38	2025-04-09 00:08:32	1:2:3
Node is down	V1000-B-19 & B-2...	INFO	192.168.6.253	Critical	2025-04-09 00:09:06	2025-04-09 00:09:07	1:2:3
Node is down	V1000-B-19 & B-2...	INFO	192.168.6.253	Critical	2025-04-09 00:09:15	2025-04-09 00:09:15	1:2:3
Node is down	B-5 to B-7 HID V...	INFO	192.168.6.249	Critical	2025-04-09 00:11:14	2025-04-09 00:11:20	1:2:3
Node is down	B-5 to B-7 HID V...	INFO	192.168.6.249	Critical	2025-04-09 00:11:21	2025-04-09 00:11:23	1:2:3
Node is down	V1000-B-19 & B-2...	INFO	192.168.6.253	Critical	2025-04-09 00:14:07	2025-04-09 00:14:07	1:2:3

Typology



Technical Specifications

HARDWARE AND SOFTWARE REQUIREMENTS	
System Architecture	• B/S-based multi-tiered system
Standard Server Requirement (for 200 devices)	• 2.8 GHz dual-core CPU • 4GB RAM (32-bit OS) or 8GB RAM (64-bit OS) • 20GB HD (free space) • Static IP
OS Support	• Linux (Ubuntu 22.04 or above)
Installation	• Single server deployment • Client is web based and no installation required
Standard Client Requirement	• 2 GHz CPU • 2GB RAM • 3GB HD (free space)
Browser Support (HTTP and HTTPS)	• Internet Explorer 9 • Firefox 20.0.1 • Chrome 26.0.1410.64 m
Language Support	• English
Management Interface Support	• SNMP (v1, v2c, v3) • Telnet/HTTP/HTTPS • Web GUI
DISCOVERY	
Automated Device Discovery	• Includes main components, submodules, and relevant interfaces
Automated Link Discovery	• LLDP-based Ethernet link discovery
Discovery Scheduling	• Supports scheduling of discovery tasks for specific dates and times
Device Resynchronization	• System alignment with updated device inventory
Device Resynchronization Scheduling	• Allows scheduled device resynchronization at a specified time
MONITORING	
Topology Mapping	•Topology views showing both discovered and manually added links, with filtering options
Event Monitoring	• SNMP trap handling with customizable attribution, severity, and descriptive details
Alarm Escalation	• Supports alarm generation from preset event definitions
Alarm/Event Actions	• Pre-defined and user defined actions triggered by events and alarms • Support for alerts via email with SMTP configuration
Monitor Data	• Device details • Port details
Real-time Key Performance Metrics collection	Temperature, Memory utilization, CPU Utilization, Total Inbound SNMP Traps, TCP Connection Attempt Failures, UDP Inbound Errors, Outbound IP Discards, Disk Temperature, Inbound IP Discards, Inbound TCP Er - rors, Disk Space Used, Inbound IP Address Errors, Disk Space Utilization, Total Disk Space, Inbound IP Header Errors, Total IP Discards, Fan Speed, Outbound IP No Route Discards, Uptime, Inbound ICMP Errors, Inbound ICMP Echo Requests, Total Outbound SNMP Traps, Outbound ICMP Echo Replies, Inbound UDP No Port, Established TCP Connections, Total SNMP Traps
Active Monitoring with Trending	• Device, port, interface monitoring, historical data persistence, thresholding & graphing (30 days max)
Reports	• Device inventory, device availability, port status, interface status reports, firmware