



Comprehensive Analysis of Top Observability Tools

ExtremeCloud IQ, Juniper Mist, Cisco Meraki, and Cisco ThousandEyes

This comparative matrix provides a detailed analysis of four leading observability tools:

- ExtremeCloud IQ
- Juniper Mist
- Cisco Meraki
- Cisco ThousandEyes

Each tool is evaluated across multiple dimensions including feature set, scalability, security features, strengths, and limitations.

- **ExtremeCloud IQ** is noted for leveraging AI and ML for network optimization and security management.
- **Juniper Mist** stands out with its strong AI-driven analytics and automation, highlighted by the Marvis AI virtual assistant for interactive troubleshooting and automated operations.
- **Cisco Meraki** is highlighted for its extensive built-in security features, broad device and application visibility, and robust integration with third-party applications.
- **Cisco ThousandEyes** excels in end-to-end network visibility and internet performance monitoring and can be used as a complimentary solution to the others.

This matrix serves as a comprehensive guide to help users determine the best fit for their network observability needs.

Observability Solution Matrix

	Cisco ThousandEyes	ExtremeCloud IQ	Juniper Mist	Meraki
Overview	Network intelligence platform for visibility and insights into digital experiences	Cloud-driven networking management with AI and ML capabilities	AI-driven network management platform for wireless, wired, and WAN	Cloud-managed IT solutions for networks, security, and IoT
Core Functionality	Network performance monitoring, internet insights, endpoint visibility. Provides deep visibility across the entire network path, including internet	Network management, monitoring, configuration, and analytics	Network management, automation, and assurance using AI and machine learning	Cloud-managed IT solutions for networks, security, and IoT
Deployment Model	Cloud-based and hybrid options available	Cloud-based	Cloud-based	Cloud-based
Key Technologies	ThousandEyes agents, internet insights, endpoint agents	Machine learning, artificial intelligence, cloud management	AI-driven analytics, Marvis virtual network assistant	Cloud management, automated updates, security appliances
Network Coverage	Global internet monitoring, branch offices, data centers, cloud services	Wired and wireless LAN, WAN, and data center networks	Wired, wireless, and WAN networks	Wired and wireless LAN, WAN, security cameras, IoT devices
AI/ML Capabilities	Advanced AI-driven insights, predictive analytics	AI-driven network analytics, predictive insights	AI-driven analytics, Marvis virtual assistant for troubleshooting and optimization	AI-driven insights, automated issue resolution, anomaly detection
Scalability	Highly scalable for large enterprises and service providers	Scalable for mid-sized to large enterprises	Scalable for enterprises of all sizes	Scalable for businesses of all sizes from SMBs to large enterprises
Automation	Automated root cause analysis, proactive notifications	Automated network configuration and optimization	Automated operations, self-driving network capabilities	Automated updates, zero-touch provisioning, auto VPN
Reporting & Analytics	Detailed reports, customizable dashboards, historical data analysis	Comprehensive analytics, customizable dashboards, detailed reporting	Real-time analytics, customizable dashboards, historical data analysis	Real-time visibility, customizable reports, historical data, network health metrics
User Interface	Intuitive web-based interface with detailed visualizations	User-friendly cloud interface with comprehensive controls	Intuitive cloud-based interface with easy navigation	Intuitive web-based dashboard, mobile app for remote management
Integration	Integrates with major enterprise IT and network tools	Integrates with Extreme Networks hardware and other IT tools	Integrates with Juniper and third-party systems	Integrates with a wide range of third-party applications and services

	Cisco ThousandEyes	ExtremeCloud IQ	Juniper Mist	Meraki
Security Features	<ul style="list-style-type: none"> • Data Encryption • Access Controls (RBAC and SSO) • Firewall Policies • Network Segmentation • Agent Security • Real-time monitoring and audit logs • Data Privacy • Security Incident Management and Response 	<ul style="list-style-type: none"> • Data Encryption • Identity and access management (RBAC, SSO, MFA) • Firewall Integration • Secure Network Segmentation • Device and User Security • Automatic Threat Mitigation • Data Privacy • Comprehensive Logging with Real-time alerts and notifications • Security Incident Management and Response • Software and Firmware Security 	<ul style="list-style-type: none"> • Data Encryption • Identity and access management (RBAC, SSO, MFA) • Firewall Integration • Secure Network Segmentation • AI-Driven Anomaly Detection and Automatic Threat Detection • Device and User Security; Data Privacy • Comprehensive Logging with Real-time alerts and notifications • Security Incident Management and Response • Software and Firmware Security 	<ul style="list-style-type: none"> • Data Encryption • Identity and access management (RBAC) • Advanced Malware Protection (AMP) • Intrusion Detection and Prevention (IDP/IPS) • Secure Network Segmentation • Secure Device Onboarding • Threat intelligence and Anomaly detection • Secure VPN and SD-WAN • Application-based firewalling • Real-time security monitoring with alerts, notifications and comprehensive reporting
Compliance & Certifications	<ul style="list-style-type: none"> • ISO 27001 • GDPR Compliance 	<ul style="list-style-type: none"> • ISO 27001 • GDPR Compliance • SOC 2 Compliance 	<ul style="list-style-type: none"> • ISO 27001 • GDPR Compliance • SOC 2 Compliance 	<ul style="list-style-type: none"> • ISO 27001 • GDPR Compliance • SOC 2 Compliance • PCI DSS • FIPS 140-2
Strengths	<ul style="list-style-type: none"> • Extensive internet performance monitoring and digital experience insights • Comprehensive endpoint visibility across entire network path (internet, WAN, applications) • Advanced AI-driven insights and predictive analytics • Flexible deployment options including cloud-based and hybrid models 	<ul style="list-style-type: none"> • Comprehensive network management tailored for Extreme • Networks hardware • Strong security management and monitoring • Strong wireless LAN (WLAN) management • AI-driven network analytics and optimization • User-friendly cloud interface 	<ul style="list-style-type: none"> • Strong AI-driven analytics and automation • Unique Marvis AI for interactive troubleshooting and automated operations • Comprehensive coverage of wired, wireless, and WAN networks • Built-in security features with AI-driven compliance tracking and proactive threat detection • Intuitive cloud-based interface focused on ease of navigation and AI-driven insights 	<ul style="list-style-type: none"> • Robust built-in security features with automatic updates • Extensive compliance and certification coverage • Broad device and application visibility with Layer 7 insights • User-friendly and intuitive web-based dashboard • Mobile app for enhanced remote management • Wide range of integrations with third-party applications and services
	Cisco ThousandEyes	ExtremeCloud IQ	Juniper Mist	Meraki

Limitations	<ul style="list-style-type: none"> Primarily focused on network intelligence and visibility rather than full, core network management Less emphasis on AI-driven automation and troubleshooting compared to Juniper Mist Integration primarily with enterprise IT and network tools, but not as tailored for specific hardware ecosystems like ExtremeCloud IQ 	<ul style="list-style-type: none"> Primarily focused on Extreme Networks hardware Less comprehensive visibility into internet path compared to Cisco ThousandEyes Less advanced AI-driven troubleshooting compared to Juniper Mist May not be ideal for complex network environments 	<ul style="list-style-type: none"> Primarily focused on Juniper hardware Limited native support for non-Juniper devices May require adaptation for enterprises heavily invested in other hardware ecosystems 	<ul style="list-style-type: none"> Primarily works with Cisco Meraki branded hardware, restricting flexibility May require a higher upfront investment for hardware and licenses Heavily reliant on cloud connectivity for management and updates Some advanced features may be overkill for small businesses or less complex networks
Customer Support	24/7 support, comprehensive documentation, training resources	24/7 support, extensive documentation, training, and community support	24/7 support, comprehensive documentation, training resources	24/7 support, detailed documentation, training resources, online community
Pricing Model	Subscription Based, tiered pricing based on features and usage	Subscription Based, tiered pricing based on features and managed devices	Subscription Based, tiered pricing based on features and managed devices	Subscription-based
C1 OnGuard Managed Services Supported	Yes	Yes	Yes	Yes

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