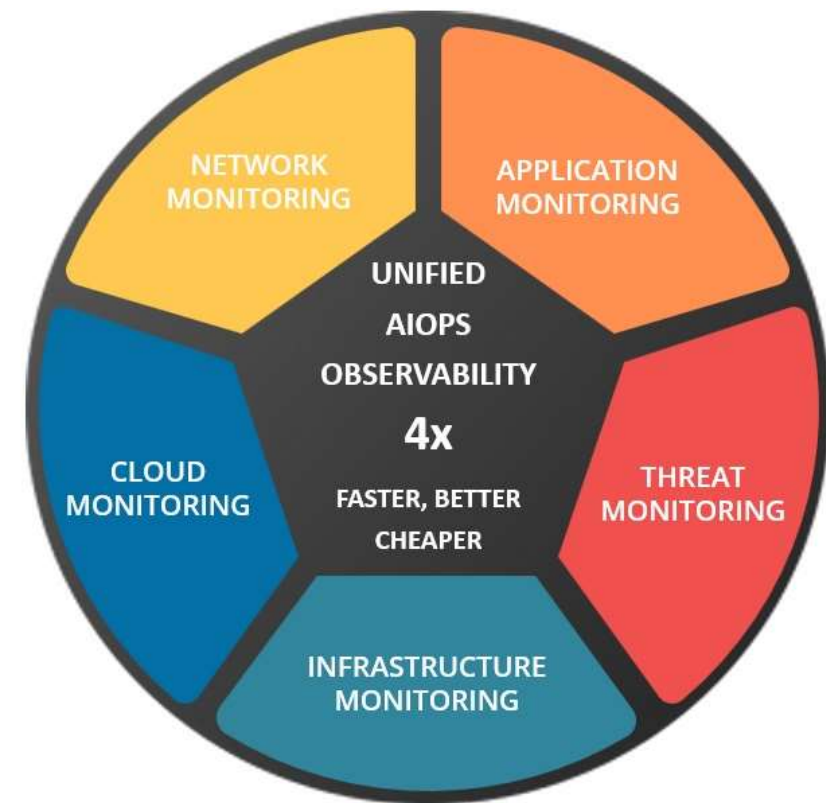


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Unified AIOps Observability Platform

Full stack AIOps based IT observability solution across network, application, infrastructure and cyber threats



Application Performance Monitoring	Network Performance Monitoring	Infrastructure Performance Monitoring	Cyber Threat Monitoring	AIOps
User Experience Transaction Tracing APIs, DB, Log Monitoring	Link Errors, Latency, Drops, Outages Capacity Planning App Performance	Device/Server/DB Virtual and Cloud Monitoring Synthetic Tests	MITRE Threats Reputation Threats DDoS Attacks Anomalies	Predictive Analytics Auto Investigation Event Correlation Auto Remediation

Salient Features	Key Benefits
<ul style="list-style-type: none">• Real time, unified AIOps full stack IT monitoring in one solution• AIOps - predictive analytics, auto investigation and root cause analysis, event correlation, auto remediation• End to end visibility from on-premises to private/public cloud• Agentless monitoring - no overhead/cybersecurity compromise• Out of box and customizable workflows• Automated alerting and reporting• Rich integrations - ITSM/SIEM, Email, Slack, Microsoft teams etc• Application specific troubleshooting workflows• Integrated Solutions with ITSM, ITOM, ITAM partners	<ul style="list-style-type: none">• Proactive real time , unified and AIOps based observability• Reduced IT downtime/outages• High performing IT applications and services• Improved customer experience, employee productivity• Cyber threats and attacks detection/investigation in early stages• Accelerated digital transformation• Increased IT cross team collaboration• 4x faster MTTR (mean time to resolve) IT incidents• 4x better visibility compared to individual monitoring tools• 4x cheaper - simplified pricing for unified AIOps observability



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Unified AIOps Observability Coverage

Network Monitoring & Mgmt	Application Monitoring	Infrastructure Monitoring	Threat Monitoring	Cloud Monitoring	AIOps	Integrations/ Others
Full scale network monitoring using SNMP, Netflow and Packet based DPI	APM agent-based Monitoring for Java, NodeJS, Golang, PHP, .Net etc apps	Server Monitoring using Remote SSH/WMI/ Agent	MITRE ATT&CK framework Threat Detection & Investigation	Public Cloud Infra Monitoring (AWS, Azure, GCP etc)	On-Demand Predictive Analytics Any Dimension/Any Metric	Unified Dashboards for Network, App, Infra, Cyber Threats Monitoring
Link, Site, Host, Conversation, App Monitoring Change Mgmt, Capacity Planning, Forecasting	Database Monitoring (Elasticsearch, My/MS-SQL, Oracle Mongo, Maria , SAP-HANA etc)	Disk Monitoring Dell IPMI, HP ILO Monitoring Storage Monitoring (Netapp, EMC etc)	DDoS Threat Detection & Investigation	Cloud DB Services Monitoring(Elasticsearch, MySQL, MongoDB etc)	On-Demand Root Cause Analysis Any Problematic Metric/Any Cause Metric	Fully Customizable Workflows, Build your own Dashboards
Device Specialized NPM monitors (Cisco, Vmware, Fortinet, Paloalto, Netscaler, HPE, Aruba etc)	App-Specific Monitors (HTTP, SSL, DNS, SSH, ICMP, SMTP, SIP, DHCP, POP3, RDP, DCE, RPC, FTP etc)	SNMP based Infra Monitoring (Any Device/Any MIB)	Reputation Threats using Stix/Taxii feeds	Kubernetes/ Dockers Monitoring	On-Demand Anomaly Detection Any Dimension/Any Metric	ITSM/SIEM/BI Tools Integration (Servicenow, SummitAI, Service desk plus, zoho, Freshworks, grafana, powerBI)
SNMP based Device NPM Monitoring (Any device/Any Vendor MIB)	Rest API Monitoring Real User Monitoring (RUM) IP Address & AD Monitoring	Virtual Infra Monitoring (Vmware, HyperV)	Network Anomalies	AWS Cloud Watch, Azure Monitor, GCP Monitor Integrations	Events Correlation*	Integrated Solutions with ITSM, ITOM, ITAM, NCM Partners
Topology /Service Maps VPN, WLAN, IPSLA, MPLS Unified SDWAN Monitoring Cisco UCM Monitoring	SaaS Apps Monitoring SAP Monitoring Tomcat, Apache, nginx etc monitoring	Ping , Traceroute, Synthetic Test Monitoring (Any HTTP/s URL)	Certificate Threats & Network Risks	Cloud API Monitoring	Auto Remediation/Self healing*	Alert on any Metric Report on any Dashboard Integrations (Email, Teams, Slack, Whatsapp etc)
Remote Network Configuration Management (NCM)	Custom App Log Monitoring Thread Dump Analysis JVM Monitoring	Network Devices Health Monitoring Routers/Switches/APs etc	Unknown Threats, Behavior Anomalies (Roadmap)	Network Monitoring in any Public Cloud		Automated Remediation (Open Scripting Framework)

* Roadmap



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Network Performance Monitoring(NPM) Coverage

NPM Technology

Packet based DPI(L2-L7)
Netflow based(L3)
SNMP based(L2)

Device specialized NPM

Monitor any MIB/any vendor. Custom device specialized built in NPM dashboards for Cisco, Vmware, Meraki, Aruba, Ruckus, Fortinet, HP, Dell, Netscaler, Paloalto Checkpoint etc

Private Cloud Monitoring

Vmware, Microsoft HyperV, Open Stack Environments

Link Monitoring

Link outages, Bandwidth, Drops, Errors, Congestion, Routing Issues, LB Issues, Network Latency, Traffic Throughput, Site-Site Traffic

WLAN/VOIP Monitoring

Ruckus, Meraki, Cisco AIREOS etc
Cisco CUCM Monitoring

Public Cloud Monitoring

Network monitoring for VPCs, compute instances, load balancers in any cloud

Application Monitoring

Special monitors for troubleshooting network KPIs for each app Eg: HTTP, SSL, SSH, DNS, DHCP, EMAIL, VOIP, DB, VPN etc
Trace every network/app connection – analyze, troubleshoot with session packet trace level evidence
Store and retrieve every packet for analysis

Capacity Planning And SLA Monitoring

Traffic growth on links, servers, apps, sites, regions, subnets, branches for capacity planning and forecasting, IPSLA Monitoring, SLA Reports

SDWAN Monitoring

Cross Vendor SDWAN Monitoring –Cisco Viptela, Versa, Lavelle, Fortinet, Aruba etc
Branch outages, SP link performance, Routing issues, Underlay/Overlay network performance.
OMP, BFD KPIs
SDWAN Vendor KPIs

Network Maps

SNMP based Topology Maps, Network Traffic based real time traffic maps. Detect and troubleshoot dependencies, errors, latencies, traffic/throughput load

Customization

Customize out of box dashboards and build your own dashboards

Alerting/Reporting

Alert on any Metric
Automated/Manual Alerts
Report on any dashboard (Adhoc/Scheduled)

Remote User/VPN

Monitor, detect and resolve VPN issues

NCM Integration

Integrated - NCM solutions



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Application Performance Monitoring(APM) Coverage

APM Coverage Network Traffic/Deep Packet Inspection(DPI) based app monitoring + APM agent based end to end application transaction and exception stack tracing + Real User Monitoring + API based App Monitoring + Synthetic Tests, Log Monitoring, SaaS Monitoring	Network Traffic Based App Monitoring Special monitors for troubleshooting each app protocol Eg: HTTP, SSL, SSH, DNS, DHCP, EMAIL, VOIP, DB, VPN etc Trace every network/app connection – analyze, troubleshoot errors, latency, sub transactions, with application session level packet trace	App Logs Monitoring Export any standard/custom logs and monitor and troubleshoot KPIs from custom logs	Real User Monitoring Trace real user experience from user's browser. UI components performance.	SaaS Apps Monitoring Real time performance monitoring for any cloud based SaaS apps (Eg: Salesforce, Hubspot Zoom, Teams, O365, Azure AD etc)
APM Agent Frameworks Supported Java, NodeJS ,GoLang, PHP, Python, .Net etc	Synthetic Monitoring Setup any http/https based synthetic tests for apps. Measure performance from simulated transactions	Database Monitoring SQL, MySQL, MS-SQL, Mongo, MariaDB, HANA ElasticSearch, Oracle etc	API testing/monitoring Monitor availability & performance of 3rd party APIs/services	Dependency Maps Service, Node, URL, Transaction, internal and external API integration dependencies
		Rest API based App Monitoring 50+ rest API Integrations Vmware Vcenter/Esxi Kubernetes, Dockers MS Teams/O365, Oracle, ElasticSearch, SAP etc	TCP Monitoring Monitor TCP errors, retransmissions, resets, zero window, latencies	Alerting/Reporting Alert on any Metric Automated/Manual Alerts Report on any dashboard (Adhoc/Scheduled)
			Custom Dashboards Customize and build your own dashboards	



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Infrastructure Health & Performance Monitoring(IPM) Coverage

IPM Technology Linux(Remote SSH) + Windows(WMI/WinRM/ Agent) + SNMP+ restAPI	Server Monitoring (Linux/Windows/HPUX) CPU , Memory, Disk I/O, Latency, Network I/O, Storage, Processes/Services, Threads, System Errors	Cloud Elastic Compute Health AWS, Azure, GCP Others	Infra Logs Monitoring Export any standard/custom Infra health logs and monitor KPIs from custom logs	Synthetic Monitoring Ping, Traceroute Tests
Device specialized IPM	Database Health Monitoring SQL, MySQL, MS-SQL, Mongo, MariaDB, HANA ElasticSearch etc Cluster/Node/Proxy health and performance	Cloud Infra Monitoring KPIs Integration AWS Cloud Watch, Azure Monitor, GCP stack driver etc	Storage Systems Netapp, Hitachi, EMC etc	OS Coverage All Windows, Unix/Linux variants/versions. HP-UX, Solaris, AIX etc
Monitor health MIB/any device/any vendor. Custom device specialized built in IPM dashboards for Cisco, Vmware, Meraki, Aruba, Ruckus, Fortinet, HP, Dell, Netscaler, Checkpoint etc		Vmware Infra Health Monitoring Monitor health and performance of vCenters, Esxi hosts and all VMs running on them	Customization Customize out of box dashboards and build your own dashboards	Alerting/Reporting Alert on any Metric Automated/Manual Alerts. Report on any dashboard (Adhoc/Scheduled)



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AIOPS

Predictive Analytics

On demand predictive analysis
Any server – any metric
Any link – any metric
Any network device – any metric
Any application – any metric
Multiple AI Prediction Models
Result with prediction accuracy
Make IT forecasting decisions based on predicted results

Auto Root Cause Analysis Investigation

On demand auto root cause analysis investigation for a problematic metric
Correlate any problematic metric with a series of possible root cause metrics
Multiple Correlation AI Models
Result with correlation accuracy

Events Correlations*

Auto events correlation with chain of events/alerts
Detect single source of all ongoing chain of events
Analyze correlations
Avoid noise and get notified only for actionable and correlated events

Auto Remediation*

On demand auto remediation to resolve problems
Develop and integrate custom remediation scripts
Trigger remediation jobs with playbook integrations
Achieve any software automation for automated remediation of most common day to day IT issues

* Roadmap



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Remote Network Configuration Management (NCM)

Technology	Backup Configuration	Compare Configuration	Alerting/Reporting	Compliance
Remote configuration management for any device with CLI based configuration support	On demand or periodic backup Schedule automated backup tasks with flexible scheduling options	Compare Configs across devices Compare within device – Current vs any historical backed up configuration	Setup alerts for config changes. Generate on demand/scheduled reports for config tasks	Setup org wide config compliance, Detect devices with non compliance Intuitive Code based Policy Compliance System Access subscriber and professional compliance definitions such as SOX, PCI etc Scale compliance policy across multiple 'show' commands
Devices Supported	Remote Configuration	License	Config Search	
Router, Switches, Firewalls, Access Points, Servers, Wireless LAN Controllers, Load Balancers, IPS, IDS Devices, WAF, Threat Intelligent Gateways, VPN Gateways, Endpoint Security Devices, SP CPE Devices, Edge Devices etc	Push remote configuration Customize & create common configuration templates. Create custom command list per template. Deploy config snippets via CLI, or bulk push automatically to hundreds of devices at once using scheduled tasks	Unlimited Devices NCM Scale as your network grows	Search any config with multiple pattern based searches	
		Config Management	Integrations	Rest API Access
		Role based config management access View configuration changes and history for audit	AD, MFA, EMAIL and other ready to use integrations	Access NCM system and data via a RESTful API interface



ThoughtData vs Competition

4x More Value – Unified AIOps Observability @ Faster MTTR, Lesser Cost

Feature	ManageEngine	Solarwinds	Zabbix	NetScout	AppDynamics	Nagios	ThoughtData
Unified Monitoring – Network + App + Infrastructure + Cyberthreats	Separate products No CyberThreats	Separate products No CyberThreats	Separate products No CyberThreats	Separate products No APM/Infra	APM Only No Network/ CyberThreats	Separate products No CyberThreats	✓ Unified Solution
Network Monitoring–Layer 2-7(SNMP+Netflow+Packet/DPI)	SNMP, Netflow	SNMP, Netflow	SNMP, Netflow	Separate products	No Network Monitoring	SNMP, Netflow	✓
Application Monitoring–(Network+APM+API+Synthetic+Logs)	APM, Logs, Synthetic Separate products	APM, Logs Separate products	API, Logs, Synthetic Separate products	Network Only No APM, Logs, API	APM, Synthetic Only	Logs, Synthetic Only	✓
CyberThreat Monitoring(MITRE+DDOS+Reputation+Anomalies)	✗	✗	✗	Separate products	✗	✗	✓
Customizable Workflows and Dashboards	✗	✗	✗	✗	✗	✗	✓ Customize Any Dashboard
Custom device vendor MIB monitoring	✓	✗	✗	✗	✗	✗	✓ Any MIB/Any Vendor
Device specialized dashboards(Cisco, Vmware, Fortinet etc)	✗	✗	✗	✗	✗	✗	✓ Most Common Vendors
Virtualization Infrastructure Monitoring	✗	Separate products	✗	✗	✗	✗	✓
True AIOps	✗	✗	✗	✗	✗	✗	✓ Beta Release
Pricing	Complicated Feature Based Expensive	Complicated Separate products Expensive	Open Source Support Based Expensive	Complicated Separate products Very Expensive	Complicated Feature Based Expensive	Complicated Feature Based Expensive	✓ Simplified #Devices Based Affordable