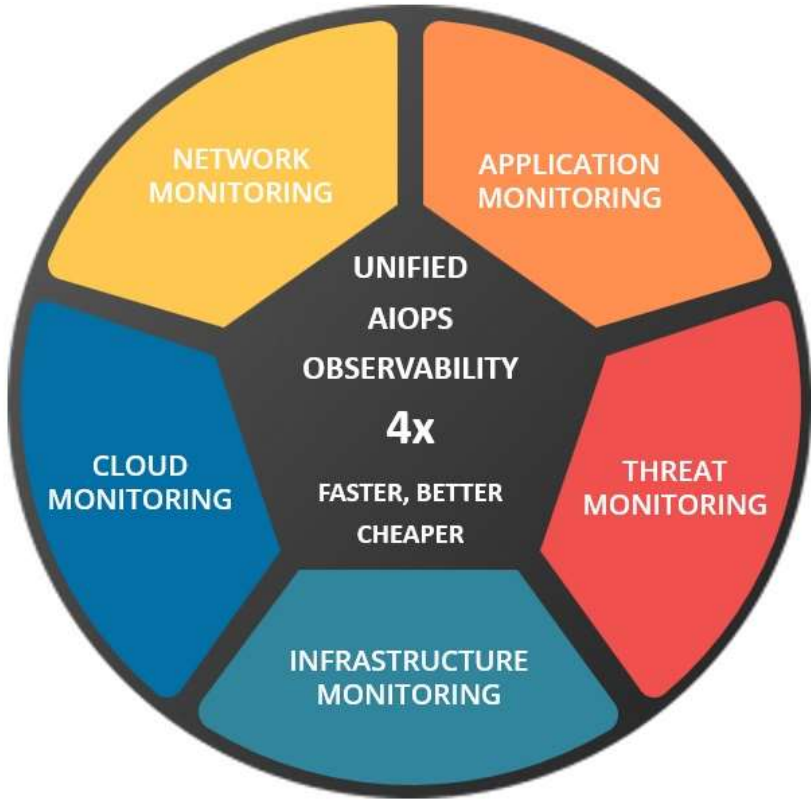


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Unified AIOPS Observability Platform

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 B/W, Errors, Drops, Outages Capacity Planning Traffic Monitoring	Servers/DBs/Virtualization/Storage/Cloud Monitoring Synthetic Tests	MITRE Threats Reputation Threats DDoS Attacks Network 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 solutionAIOPS - predictive analytics, auto investigation and root cause analysis, event correlation, auto remediationEnd to end visibility from on-premises to private/public cloudAgentless monitoring - no overhead/cybersecurity compromiseOut of box and customizable workflowsAutomated alerting and reportingRich integrations - ITSM/SIEM, Email, Slack, Teams, Whatsapp etcApplication specific troubleshooting workflowsIntegrated Solutions with ITSM, ITOM, ITAM partners	<ul style="list-style-type: none">Proactive real time , unified and AIOPS based observabilityReduced IT downtime/outagesHigh performing IT applications and servicesImproved customer experience, employee productivityCyber threats and attacks detection/investigation in early stagesAccelerated digital transformationIncreased IT cross team collaboration4x faster MTTR (mean time to resolve) IT incidents4x better visibility compared to individual monitoring tools4x 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 agentless(SSH/WMI) or Agent based	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, HP 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 Dashboards, Build your own Dashboards and Reports
Device Specialized NPM monitors (Cisco, Fortinet, Palotalto, Netscaler, HPE, Aruba, Brocade, Checkpoint etc)	App-Specific Monitors (HTTP, SSL, DNS, SSH, ICMP, SMTP, SIP, DHCP, POP3, RDP, DCE, RPC, FTP etc)	SNMP based Infra Monitoring (Any network 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, Proxmox)	Network Anomalies	AWS Cloud Watch, Azure Monitor, GCP Monitor Integrations	Events Correlation*	Integrated Solutions with ITSM, ITOM, ITAM, Partners
Topology /Service Maps VPN, 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)
WLAN (Meraki, Mist, Cisco, Ruckus etc) Remote Network Configuration Management (NCM)	Custom event, App log Monitoring Thread Dump Analysis JVM Monitoring	Network Devices Health Monitoring Routers/Switches/APs etc	Unknown Threats, Behavior Anomalies*	Network Monitoring in any Public Cloud		Automated Remediation (Open Scripting Framework)

* Roadmap

Network Performance Monitoring(NPM) Coverage

NPM Technology Packet based DPI(L2-L7) Netflow based(L3) SNMP based(L2)	Link Monitoring Link outages, Bandwidth, Drops, Errors, Congestion, Routing Issues, LB Issues, Network Latency, Traffic Throughput, Site-Site Traffic Monitoring	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	SDWAN Monitoring Cross Vendor SDWAN Monitoring –Cisco Viptela, Versa, Fortinet, Citrix, Lavelle*, Aruba*, Fatpipe* Branch outages, SP link performance, Routing issues, Underlay/Overlay network performance. OMP, BFD KPIs SDWAN Vendor KPIs	Customization Customize out of box dashboards and build your own dashboards
Device specialized NPM Monitor any MIB/any vendor. Custom device specialized built in NPM dashboards for Cisco, Meraki, Aruba, Ruckus, Fortinet, HP, Dell, Netscaler, Paloalto Checkpoint, Brocade etc	WLAN/VOIP Monitoring Ruckus, Meraki, Cisco AIREOS, Juniper Mist, Extreme WLAN etc Cisco CUCM Monitoring	Capacity Planning And SLA Monitoring Traffic growth on links, servers, apps, sites, regions, subnets, branches for capacity planning and forecasting, IPSLA Monitoring, SLA Reports	Network Maps SNMP based Topology Maps, Network Traffic based real time traffic maps. Detect and troubleshoot dependencies, errors, latencies, traffic/throughput load	Alerting/Reporting Alert on any Metric Automated/Manual Alerts Report on any dashboard (Adhoc/Scheduled)
IPAM, Path Analysis IP Address Management, Network Path Analysis	Public Cloud Monitoring Network monitoring for VPCs, compute instances, load balancers in any cloud			Remote User/VPN Monitor, detect and resolve VPN issues
				NCM Integration Integrated - NCM solution



Application Performance Monitoring(APM) Coverage

APM Coverage	Network Traffic Based App Monitoring	App Logs Monitoring	Real User Monitoring	SaaS Apps Monitoring
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	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	Export any standard/ custom logs or Syslogs and monitor and troubleshoot KPIs from logs	Trace real user experience from user's browser. UI components performance.	Real time performance monitoring for any cloud based SaaS apps (Eg: Salesforce, Hubspot Zoom, Teams, O365, Azure AD etc)
APM Agent Frameworks Supported	Synthetic Monitoring	Database Monitoring	API testing/monitoring	Dependency Maps
Java, NodeJS ,GoLang, PHP, Python, .Net etc	Setup any ping, traceroute or http/https based synthetic tests for apps. Measure performance and connectivity from simulated transactions	SQL, MySQL, MS-SQL, Mongo, MariaDB, HANA ElasticSearch, Oracle etc	Monitor availability & performance of 3rd party APIs/services	Service, Node, URL, Transaction, internal and external API integration dependencies
	Rest API based App Monitoring		TCP Monitoring	Alerting/Reporting
	50+ rest API Integrations Vmware Vcenter/Esxi Kubernetes, Dockers MS Teams/O365, Oracle, ElasticSearch, SAP etc		Monitor TCP errors, retransmissions, resets, zero window, latencies	Alert on any Metric Automated/Manual Alerts Report on any dashboard (Adhoc/Scheduled)
			Custom Dashboards	
			Customize and build your own dashboards	



Infrastructure Health & Performance Monitoring(IPM) Coverage

IPM Technology	Server Monitoring (Unix/Linux/Windows/ Solaris/HPUX)	Cloud Elastic Compute Health	Infra Logs Monitoring	Synthetic Monitoring
Agentless Server Monitoring Linux(SSH), Windows(WMI/WinRM/ Agent), SNMP, restAPI	CPU , Memory, Disk I/O, Network I/O, Storage, Processes/Services, Threads, Errors	AWS, Azure, GCP, Others	Export any standard/custom Infra health logs and monitor KPIs from custom logs	Ping, Traceroute Tests
Device specialized IPM	Virtualization Infra Monitoring	Cloud Infra Monitoring KPIs Integration	Storage Systems	OS Coverage
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, HyperV, Proxmox Monitor health and performance of vCenters, Esxi hosts and all VMs running via vCenter Monitor all VMs and health of HyperV, Proxmox host servers	AWS Cloud Watch, Azure Monitor, GCP stack driver etc	Netapp, Hitachi, EMC, Dell Unity etc	All Windows, Unix/Linux variants/versions, HP-UX, Solaris, AIX etc
		Database Health Monitoring	Customization	Alerting/Reporting
		SQL, MySQL, MS-SQL, Mongo, MariaDB, HANA ElasticSearch etc Cluster/Node/Proxy health and performance	Customize out of box dashboards and build your own dashboards	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	Role Based Config Mgmt
Remote configuration management for any device with CLI based configuration support	On demand or periodic backup Schedule automated backup tasks with flexible scheduling options	Download, Compare Config changes within/ across devices. Config change notifications and alerts	Out of box and custom alerts for config changes, bulk push, compliance, violations, upgrades.	Role based config management access View configuration changes and privilege based bulk push/upgrade access
Devices Supported	Remote Configuration	Compliance	Reporting	Remote Shell Access*
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	Bulk push remote configuration. Customize & create 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	Org wide config compliance checks, Detect devices with non compliance policy. Out of box standard/custom compliance checks – PCI, SOX, RBI* etc	Out of box or Customized on demand/scheduled reports for any config management	Remotely launch shell console to managed NCM devices to perform on demand configuration
		Rest API*	High Availability	Integrations
		RestAPI based NCM	High Availability and Scalability NCM Solution	AD, MFA, EMAIL and other ready to use integrations

* Roadmap

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
No additional OS or database license or compute costs	✗	✗	✓	✓	✗	✓	✓
Builtin Network Configuration Management	✓	✓	✗	✗	✗	✗	✓
50% lesser compute resources than competing 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