

Transform Network Operations with Network AI

Networks are more critical than ever to your business, supporting nearly every process and aspect of our 21st century economy. Outages and grey failures that may have been just a minor inconvenience in the past can now impact tens of millions of dollars of revenue in a matter of hours. A new example appears in the headlines nearly every week.

Operations teams are feeling the pressure – and the pain. With a constant stream of new tech like public cloud, SD-WAN and Clos data center topologies, network complexity seems continuously one step ahead of operational ease. Existing monitoring systems don't help, with alert streams that are either noise or emergency, leading to a never-ending firefight.

Augtera's Network AI changes the game. Using both published and proprietary ML, **Augtera builds comprehensive models of network constructs, relationships and behavior** from a combination of data sources including SNMP, syslog, flow and gRPC / gNMI streaming. Patterns and correlations are automatically identified, providing both anomaly detection and noise reduction, focusing operations team resources on actionable insights.

These methods provide a huge gain for operations teams. By **detecting precursor signals traditional systems miss**, Augtera provides lead time to address network problems before they explode into failures, downtime and business impact. By **eliminating the noise** produced by thresholds, baselines, and standard deviations, Augtera allows ops teams to focus on the most operationally relevant events.

Ready to move your network into the Augtera Era? Contact us today for a demo or trial.

Augtera Network AI Platform Benefits

Deploy Your Way

On-prem or in the cloud, self-managed or fully managed SaaS

Get Started Fast

Insight-driven network operations in hours, not weeks or months

All Your Network Data

Capture and correlate telemetry from any network device

Output That Matters

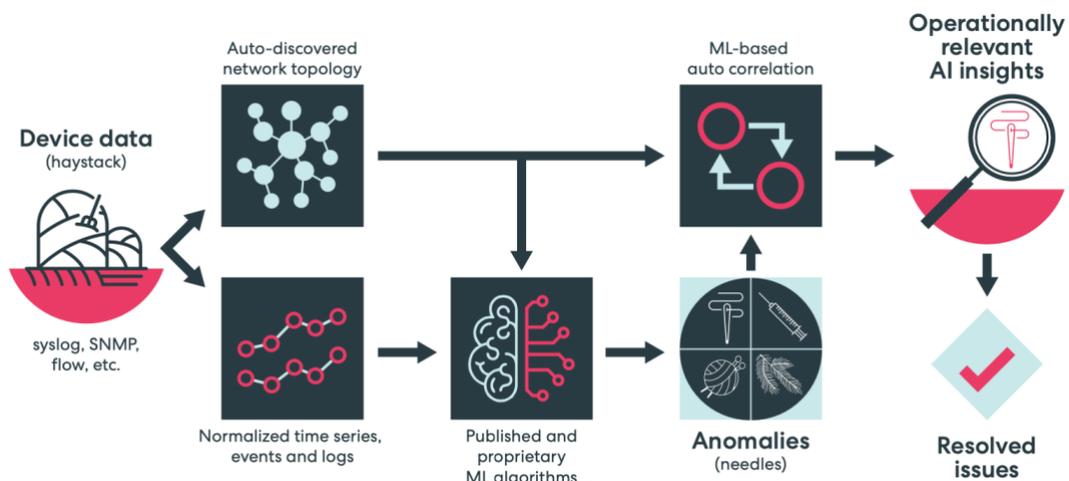
Eliminate noise and focus on what is operationally relevant

Get Ahead of the Incident

Mitigate and remediate customers, application teams, and your business is impacted

Automate Your Response

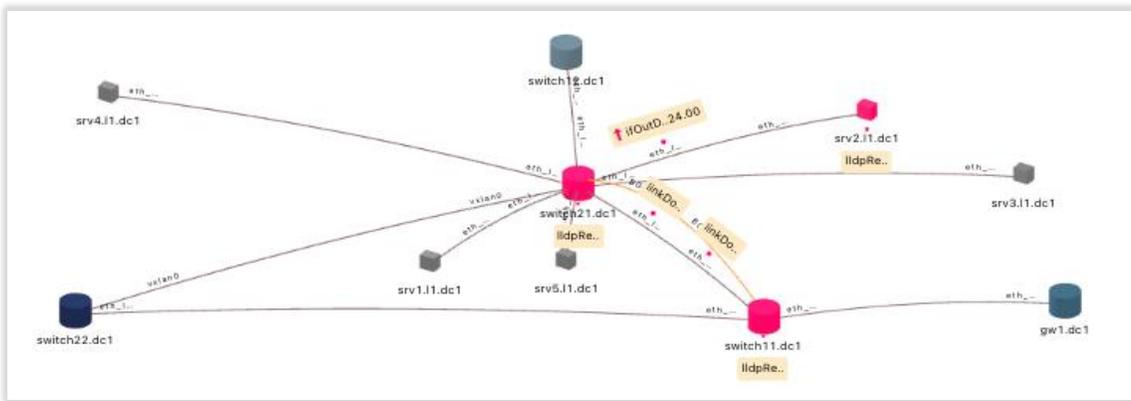
Integrate with DevOps and other operational systems



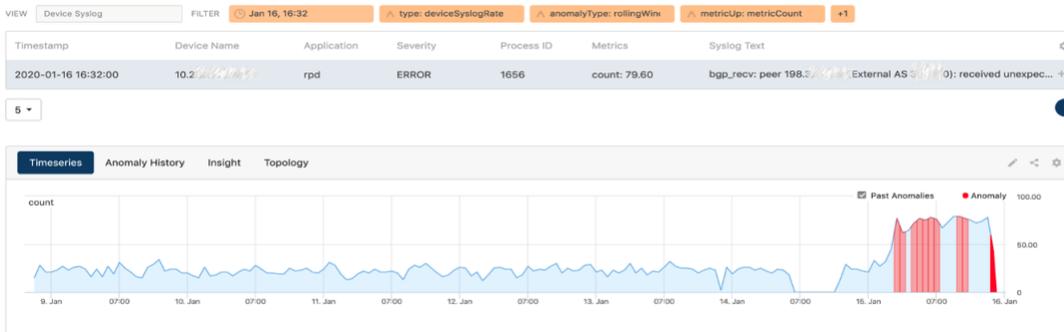
Early Detection: Augtera learns multivariate patterns at scale across a wide spectrum of metrics enabling operators to proactively identify impairments and degradations **before the business is impacted.**



Automatic Correlation: Augtera leverages a multi-layer ML network model to **automatically correlate network events** across data sources into a single incident.



Automated Log Analysis: Augtera automatically classifies log data and quickly **detects pattern changes and behavioral anomalies that other systems can't find.**



Holistic Data Ingestion

Data Type

Network Topology
System Events
Control Plane State & Metrics
Data Plane & System Metrics
Operator Metadata
Ticketing System
Operator aggregated traffic Data (e.g., HTTP)
VM/Container Topology & Metrics
Flow Data
Log Data
Forwarding State
Probe / Ping data
Data interfaces

API Type

SNMP, NETCONF, Proprietary vendor APIs, screen scraping
Syslog, SNMP Traps, Telemetry Streaming, Proprietary vendor APIs
SNMP, Telemetry Streaming, Proprietary vendor APIs
SNMP, Telemetry Streaming, Proprietary vendor APIs
APIs provided by the platform
Proprietary vendor APIs
APIs provided by the platform
Cloud platform APIs
NetFlow, sFlow, IPFIX, VPC flow logs, Platform APIs
Syslog, JSON
SNMP, Telemetry Streaming, Proprietary vendor APIs
Proprietary APIs, Platform APIs
Kafka, gRPC / gNMI, Augtera API, customer APIs

Delivery Methods

- SaaS
- Hybrid Cloud
- On-Prem

Minimum On Premises Hardware

- 16 Cores
- 64GB RAM
- 128Gb HDD

Operating System Support

- Ubuntu
- Red Hat
- Amazon Linux
- Other

Cloud Integrations

- Amazon Web Services
- Microsoft Azure
- Google Cloud Platform

Equipment Types

- Wide range including Switches, Routers, Servers, Firewalls, Load Balancers, SD-WAN & SDN, Data Lakes, & Public Cloud

Vendors

- Arista, Cisco, Juniper
- Avi, F5
- Dell Enterprise SONiC & OS10
- Palo Alto Networks
- VMware/NSX
- Standards-compliant Devices

Log and Timeseries Platform Integrations

- Splunk, Elastic Search
- Prometheus & Other

Platform Notification Endpoints

- ServiceNow
- Slack
- Syslog endpoints
- Kafka consumers

SD-WAN Integrations

- Viptela, VersaVeloCloud
- CloudGenix/Palo Alto

The Need for AIOps

“The traditional NMS system, they’re based on regex matching or some rules system stuff, and tons of noise floods into the alert console,” Parantap Lahiri, VP Network & Data Center Engineering, eBay, ONUG 2021, Executive Round Table AI in Networking

“In a multivendor and software stack environment, it is not possible anymore to trouble shoot the network or even understand the visibility,” Ihab Tarazi, SVP & CTO, Dell Technologies, ONUG 2021, Executive Round Table AI in Networking

“We are convinced that artificial intelligence is going to systematically improve and transform our network management,” Jean-Louis Le Roux, Deputy Executive Vice President International Networks at Orange, ONUG 2021, Executive Round Table AI in Networking

The Impact of AIOps

“We would have a switch die and we would get 100 tickets. With topology-aware and event-hierarchy-aware auto correlation, we get one ticket. There is only one true event that needs to get addressed. For RTP [maintenance] activities we go from 100 tickets to no tickets,” Rick Casarez, Technical Director, Network Software Engineering & Operations, eBay, ONUG 2022

Customer Testimonials

“You have got to get the signal out of the noise [...] in our journey we have actually developed confidence in the AI/ML system in a way where we are actually pumping it directly in our ticketing system,” Fortune 500 e-commerce

“After more than a year of deployment in production infrastructure, the platform has shown instrumental results and demonstrated several use cases,” Jean-Luis Le Roux, Head of Global Wholesale and Enterprise Networks

“Anomaly detection results are excellent,” Fortune 500 Financial

“With Augtera we are able to prevent facility failures by getting advanced notification when our environmental system begins to degrade,” Ken Branscum, Director of Operations, Vyve Broadband

“There is increasing relevance for machine learning as we apply closer to services where the noise from network signals and alarms is massive,” Global MSO

“We have detected several important anomalies such as traffic loops [...] and they were detected before any customer impact,” Global MSP