

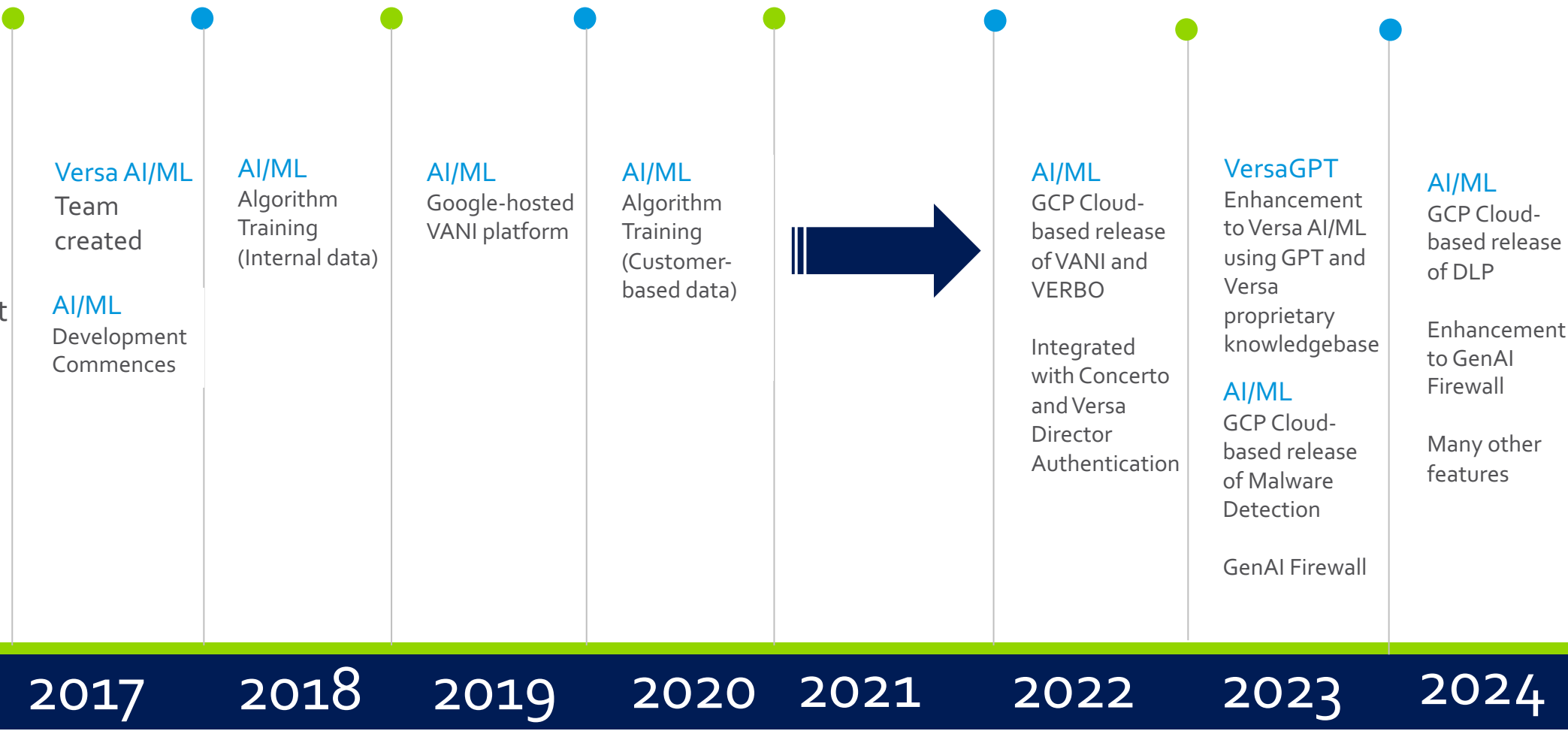
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AI Ops with VANI and VERBO



Rapid Pace of AI/ML Innovation...

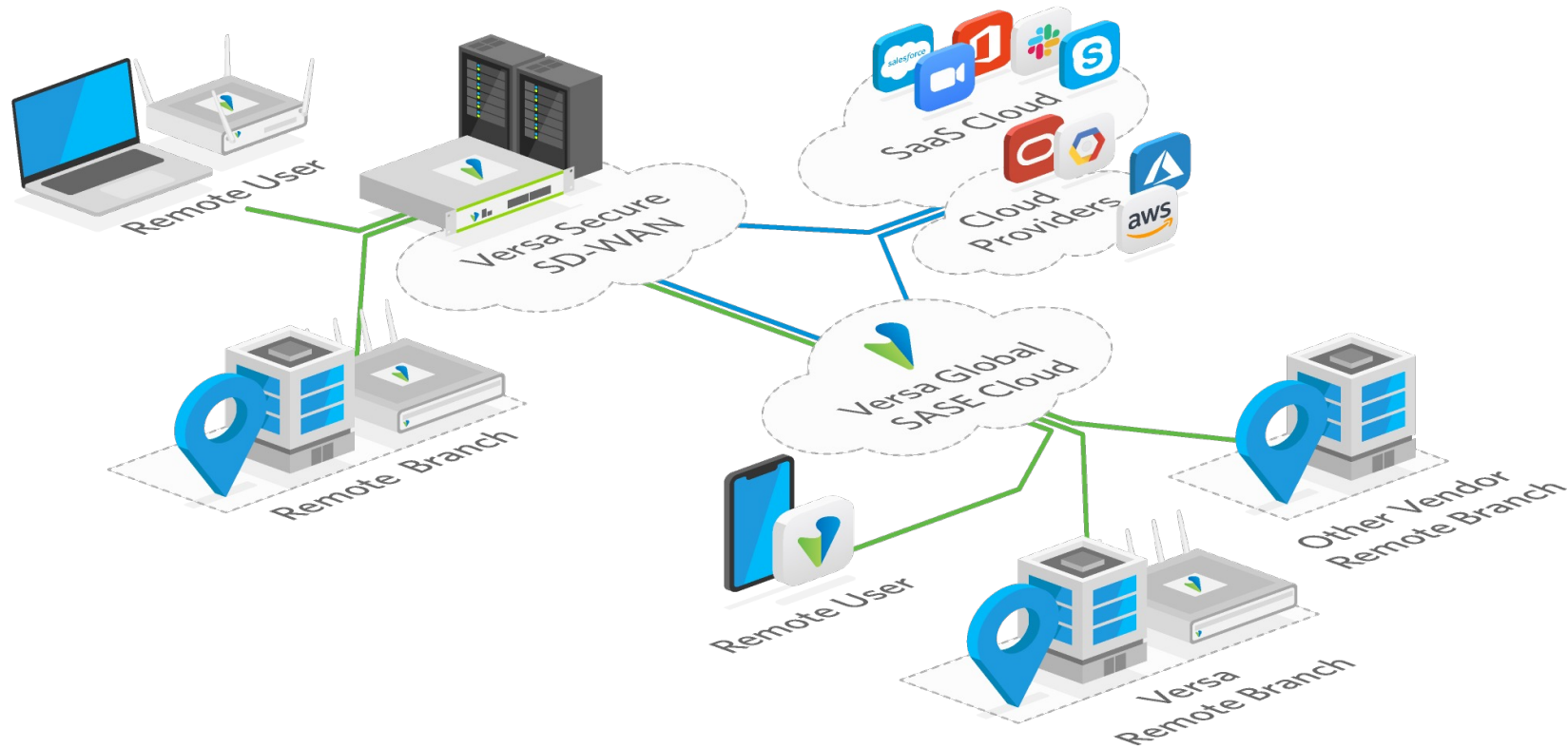
The industries most advanced real-time AI/ML pipeline model generation architecture for the most accurate and relevant outcomes



Business as usual

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Let's take a typical deployment network



Let's take a typical deployment network



Lots of multivendor networking devices (e.g., routers, switches, firewalls, load-balancers, etc.)



Device monitoring is not standardized. Need a mix of Rest APIs, SNMP, httping to monitor all the devices.



Reliance on decades-old standards like SNMP that are not good enough for modern mega-scale infrastructure.

Typical NOC setup



An expensive NMS software:
Looping through SNMP mibs,
rest APIs is still inefficient.



A team of engineers working on
network management: Regional
NOCs are expensive to maintain.



Carefully crafted set of rules
and alerts: Massive amount
of data generated.



A step in the right direction

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Smart Logging

- ✓ Push logging from each device in standard format. E.g., syslog, ipfix, protobufs etc.
- ✓ Send logs only when needed
- ✓ Problem of data overload still exist.



Onus still on user

- ✓ Setup alerting and threshold for each signal and feature
- ✓ Prioritize the alerts that are generated

AIOPs to the rescue!



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VANI

Versa Advanced Network Insights

Problem



Realtime predictive notification

Branch103 might see a surge in traffic in about 15 minutes



Predictive network design

What kind of delay would I notice if I chose underlay A vs underlay B



Smart Debugging

Underlay seems to have issues on Fridays 3pm-4pm



Anomaly detection

Just noticed uncharacteristic latency in traffic between branch A and branch B



Alarm Correlation

Branch A is down (instead of bgp is down on Branch C,D...)

Alarm Suppression and Prioritization

- Find the most independent cause of the alarm
- Suppresses and correlates the alarms to simpler data points
- Finds the focal point to begin your investigation/debugging



Appliances with Issues Detected

Site	CPU	Memory	Interface	Session	Download	Upload	Stability	Priority
Site-001-001		519 of 880						1
Site-002-002	340 of 1,258	48 of 243						2
Site-003-003							78 of 90	3
Site-004-004		2 of 4					12 of 12	4
Site-005-005		24 of 44						5

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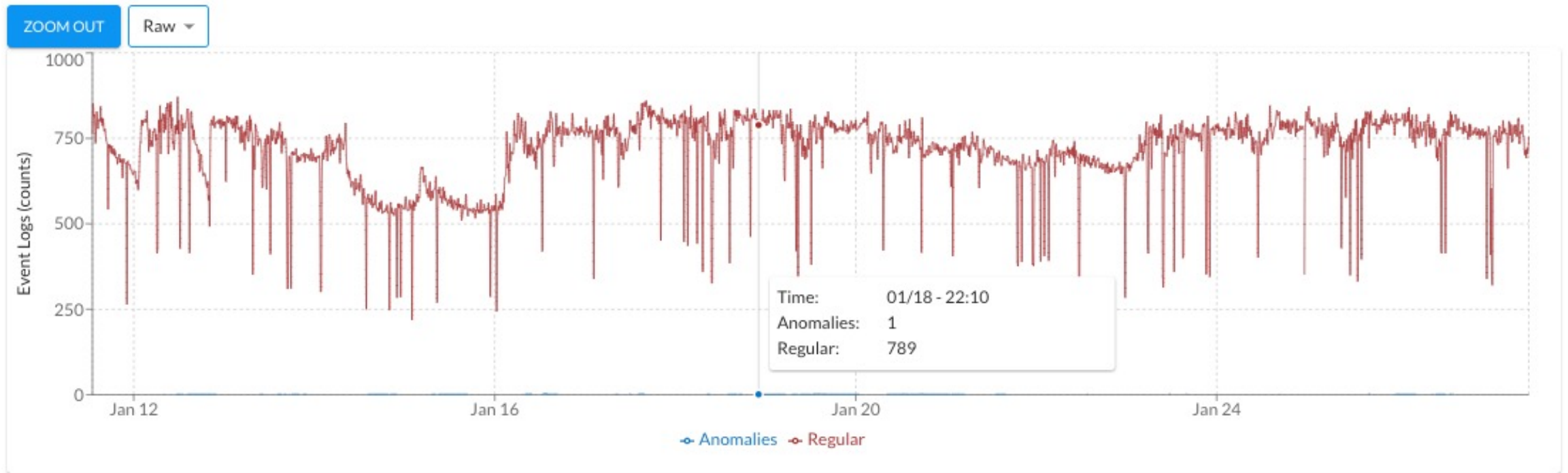
Network Signal Prediction

Predicts and alerts a week in advance



Anomaly Detection

Finds anomalies from raw event logs



Verbo

Versa Chatbot

Intuitive access built everywhere

VERSA

NETWORKS

Monitor

Configuration

Workflows

Administration

Analytics

Commit Template

Organizations

Appliances

Connectors

System

Scheduled Tasks

Notification Config...

Entitlement Manager

Director User Mana...

Inventory

SDWAN

Support

Total Appliances : 4

Search

Appliance Tags

Name

Mgmt. Addre...

Tags

Type

Service Start ...

Software Version

Orga

kirk2

10.40.14.50

Service-vnf

Tue, Jan 18 2...

22.1.1-GA

prov

wan-b1

10.0.0.4

Branch

22.1.1-GA

tena

wan-b2

10.0.0.6

Branch

22.1.1-GA

tena

wan-ctrl

10.40.14.110

Controller

Thu, Jan 21 2...

21.1.1-GA

tena

Verbo

Your personal automated assistant

03:50

What is your Branch ?

03:50

b1

03:50

Do you mean wan-b1 ?

03:50

Please type here

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Last Successful Login : Tue, Jan 18 2022, 11:02

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What can it do?



Provides a context sensitive chat window for the user to interact with in natural language



Troubleshoot common problems



Redirect the user to appropriate UI screen (on Director/Concerto etc)

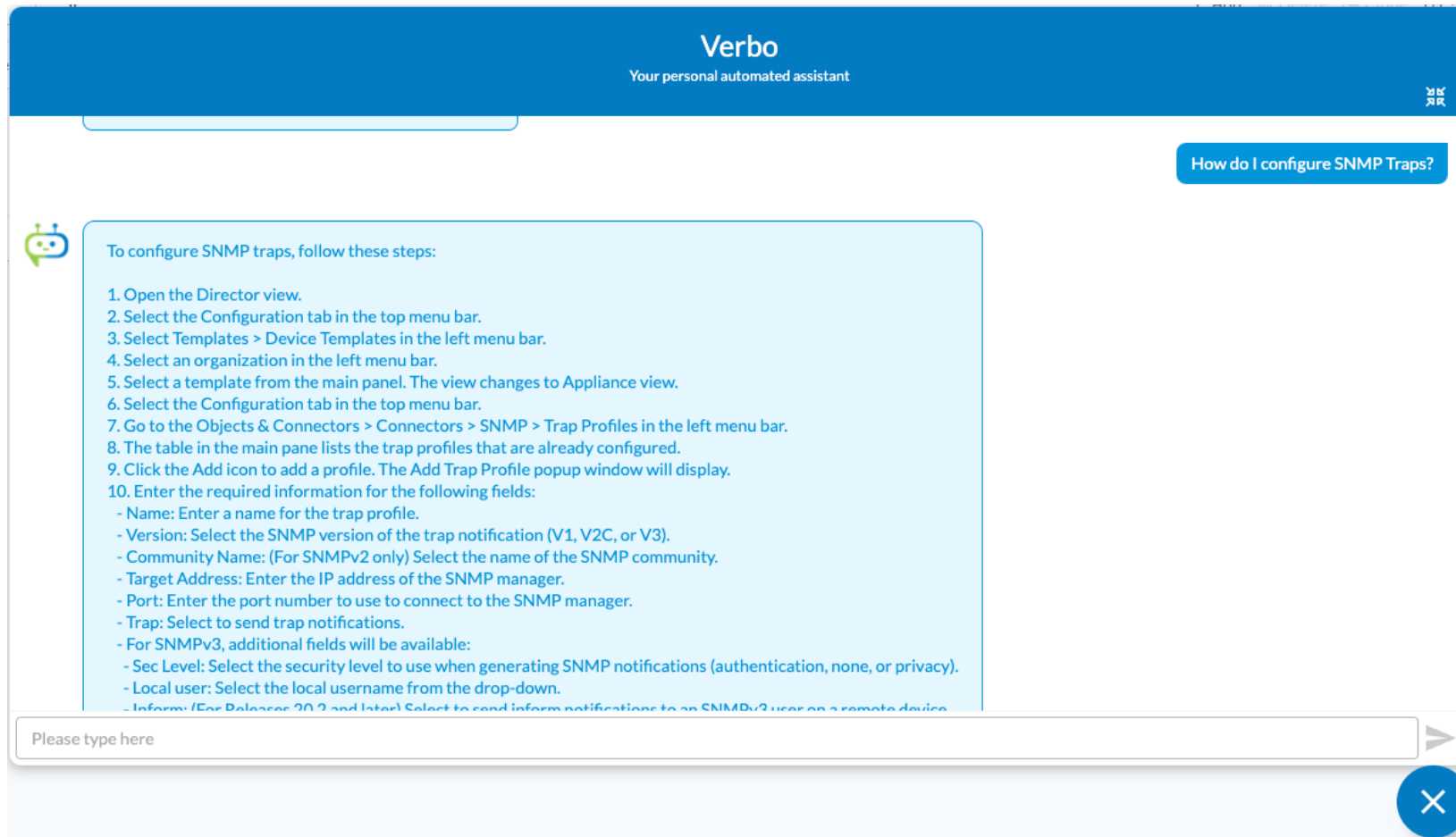


Integrates with Vani

VersaGPT

Generative AI access to Versa Ecosystem

Generative AI with the latest Versa knowhow



What can it do?

Provides arbitrary search capability on everything Versa

Integrates with Verbo & Versa Website

Prompt tuned embedded generative AI to parse through knowledgebases/documents/whitepapers

Fine tuned GenAI to ingest support tickets

An abstract graphic of a circuit board pattern in light green and blue lines on a dark blue background, with small green dots at various points along the lines.

Tying it all together

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Improving the existing design

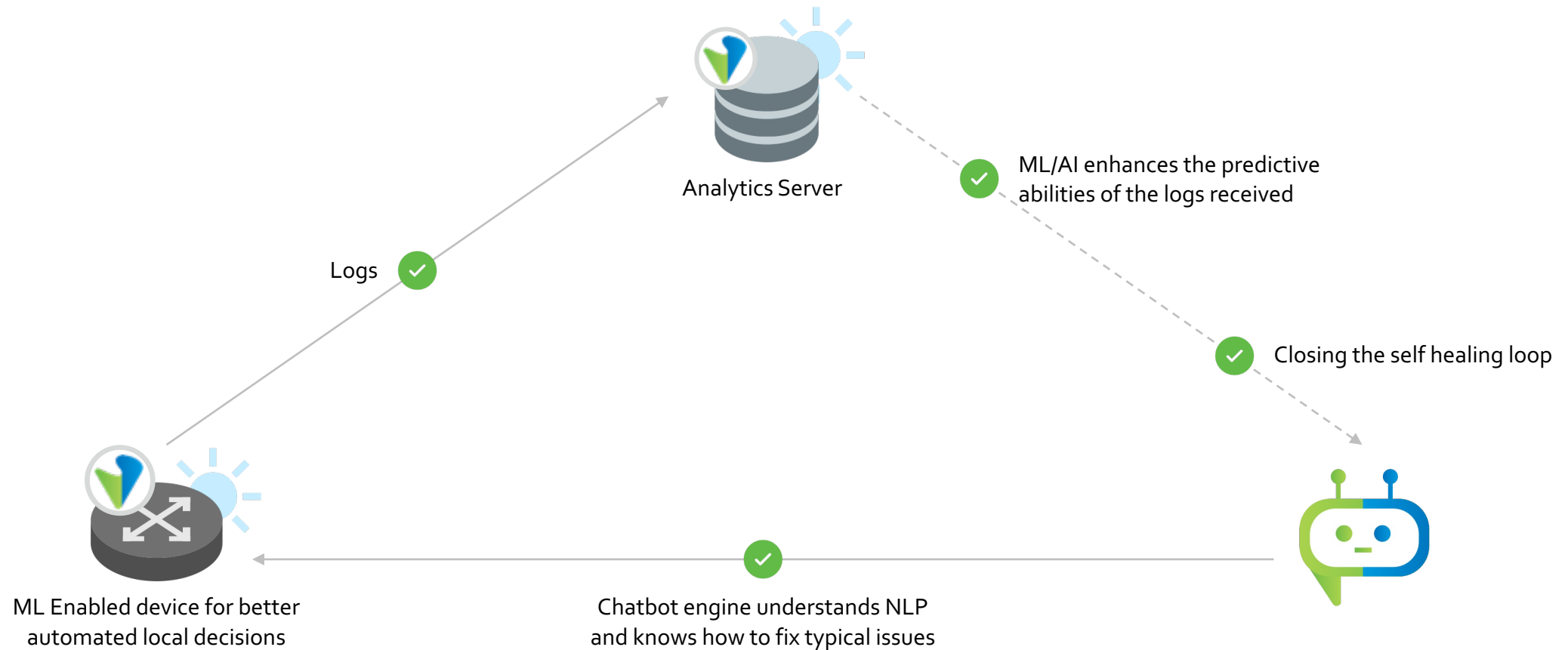
Intelligence Plane

Control Plane

Data Plane

Traditional Networking

Architecting the intelligence layer



An abstract graphic on the left side of the slide, consisting of numerous thin, light blue lines that branch out and connect to small green dots, resembling a complex circuit or data network.

Demo

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Thank you

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