

Solution \mathbf{EV}

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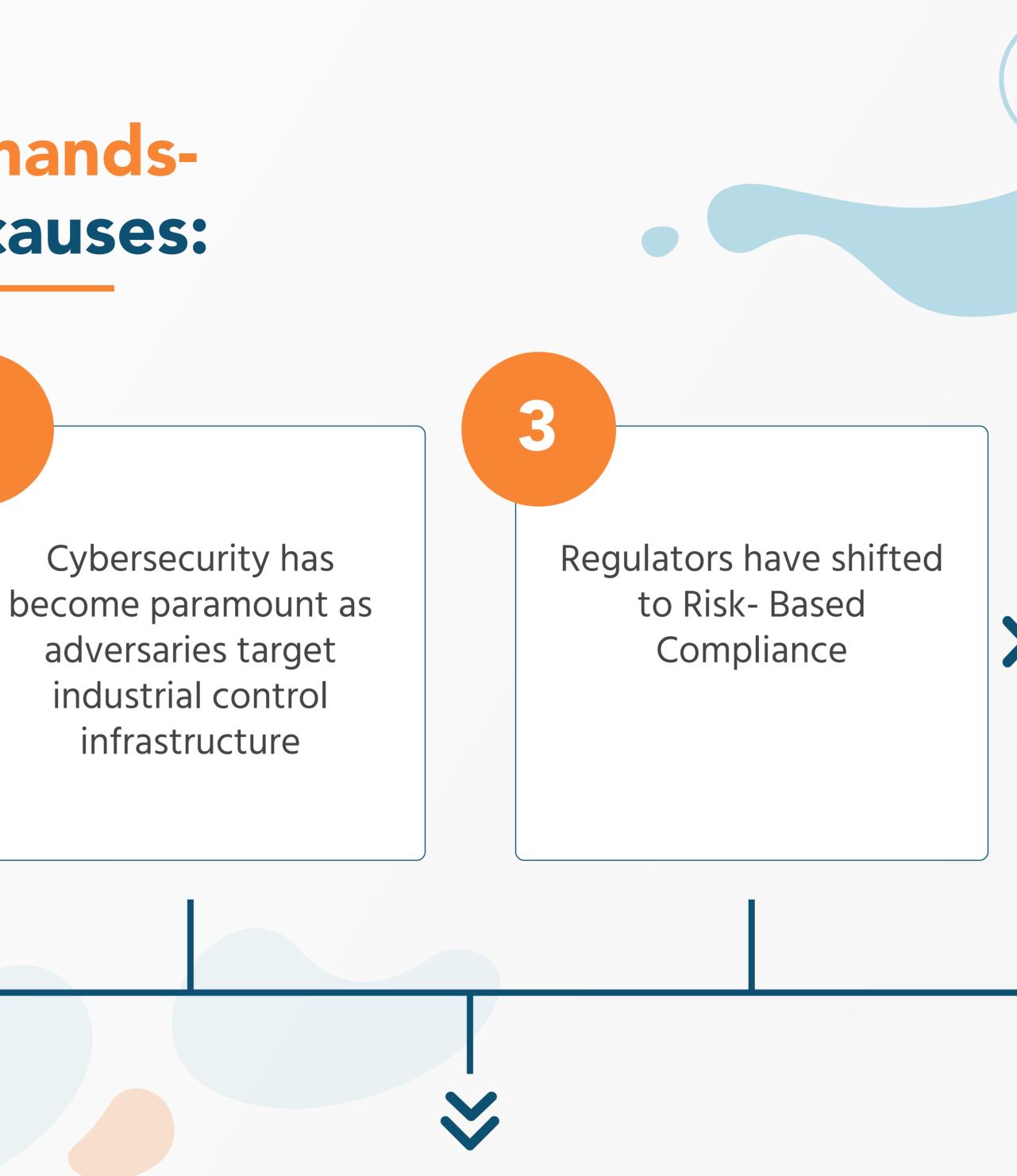


np network perception



Cybersecurity Demands-The effect of this causes:

As device proliferation continues in OT environments, networks are under more strain



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Cyber teams must manage additional risk without a proportional increase in resources

Solution Overview

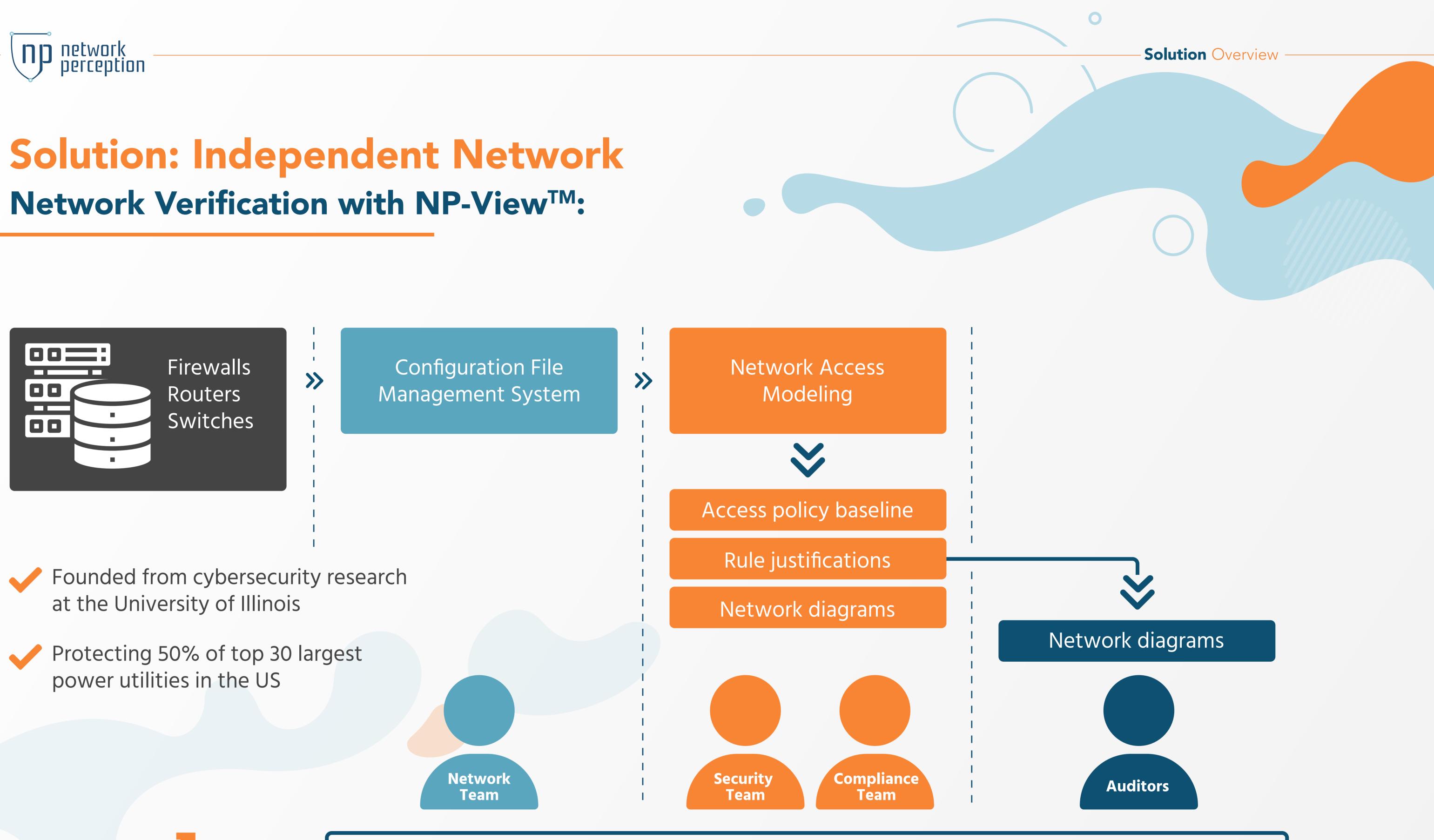
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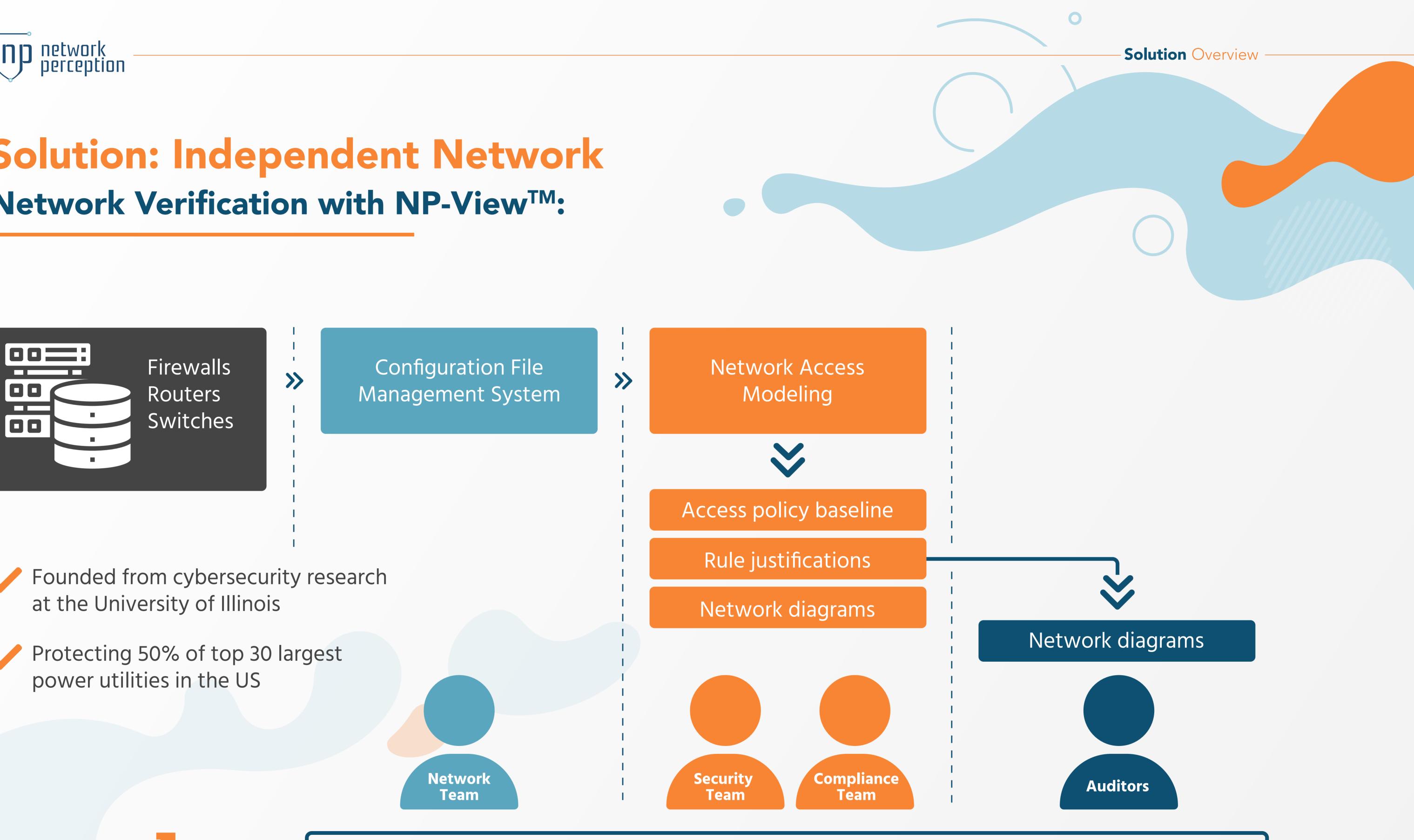


These trends **increase** demands and the costs associated with maintaining compliance and security











Risk of security drift

High expertise requirement

Speed to understanding





About **Network Perception:**

Our Mission is to Secure Critical Infrastructure



100+ customers / **50%** of top 30 largest power utilities in the US -

Solved challenges for **NERC** and utilities through ongoing consultations

Leveraged in hundreds of NERC CIP audits since 2016

Provide independent visibility and proactive protection



Founded by cybersecurity experts from the University of Illinois at Urbana-Champaign

Research funded by DOE, DHS, NSF







Network Perception: Purpose-Built for OT Networks



Network Visualization & Mapping:

Continuously assess risks, enhance network segmentation, and prevent misconfigurations.

Proactive **Security:** NP-View can

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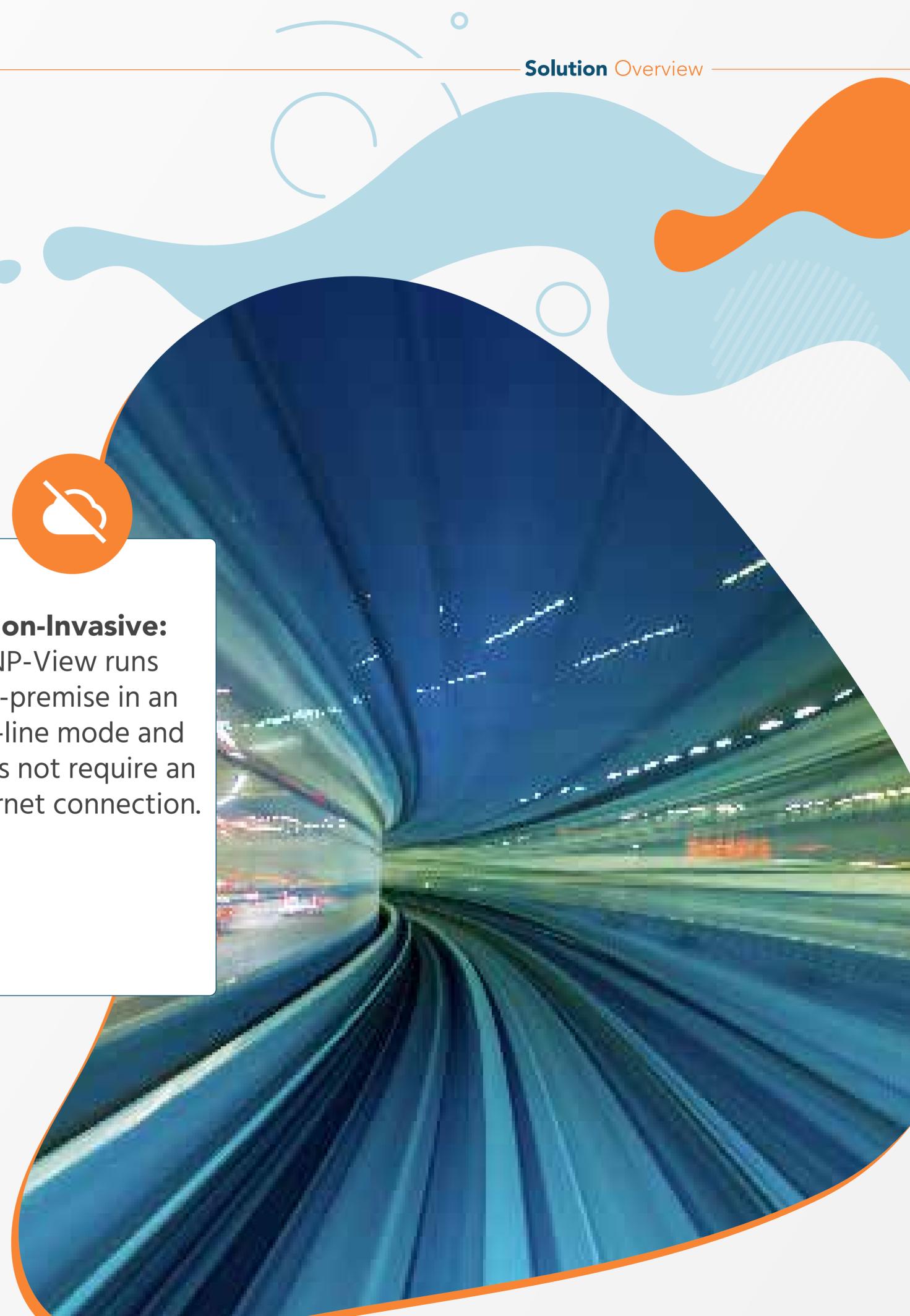
continuously assess potential and active network changes and flag preventative alerts on policy conditions.

Lightweight & **Effortless Setup:** NP-View provides a

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complete network view without the need to install an agent or write to the OT network.

Non-Invasive: NP-View runs on-premise in an off-line mode and does not require an internet connection.







Empower Cyber Teams to meet increasing demands:



- Audit preparation
- Policy review
- Change validation
- •Tech refresh / cyber hygiene

- Network risk assessment
- Continuous configuration monitoring
- Proactive alerts

- •Network traffic monitoring/asset discovery
- Vulnerability management
- Ticketing integration

Solution Overview





Reduce **Immediate Costs:**



Audit Preparation

Identify access rules that do not meet compliance requirements and create exposure



Change Validation

Automatically ensure any changes do not create overly permissive rules



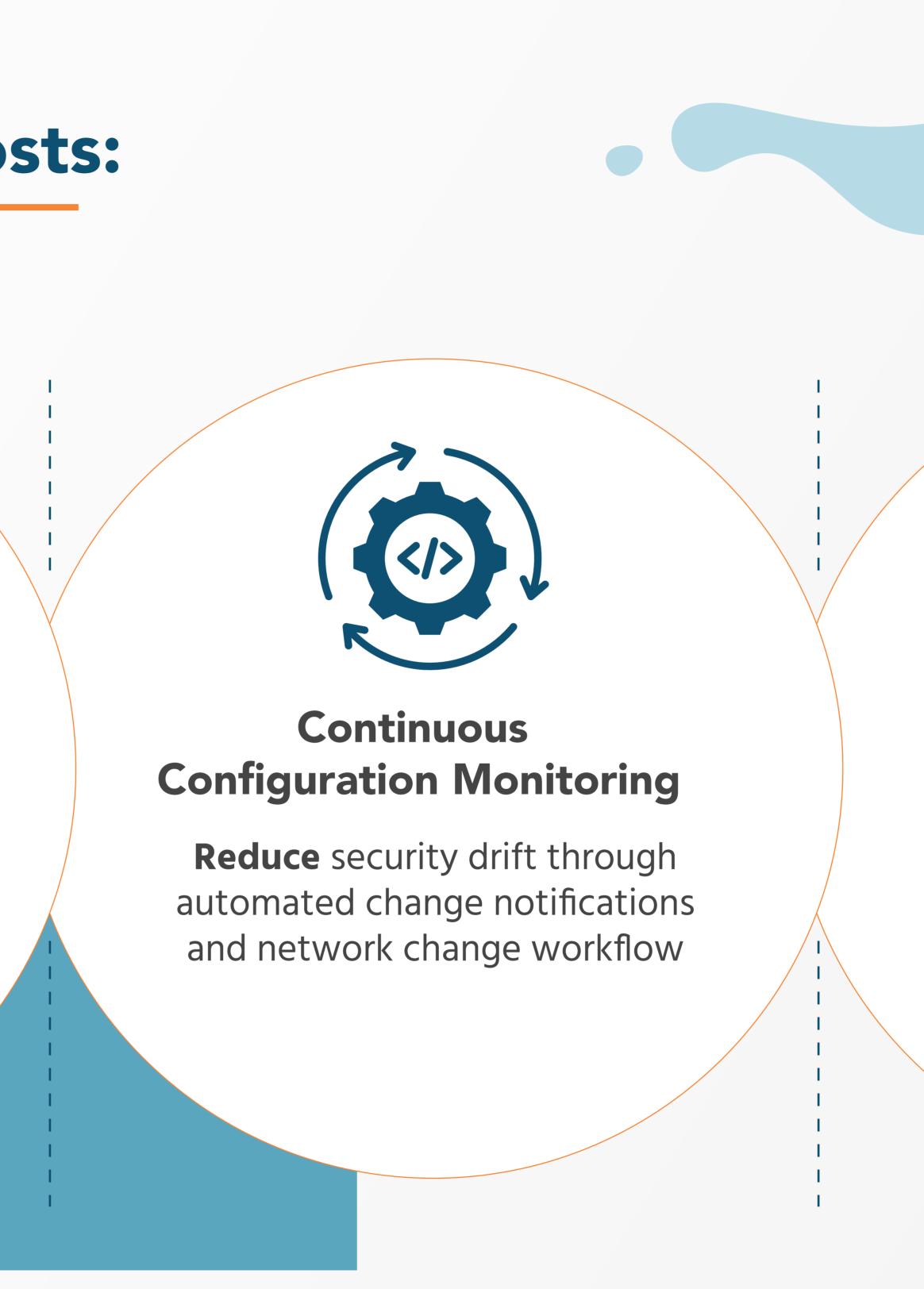




Mitigate Risks to Eliminate Future Costs:

Network Risk Assessment

Measure overall risk of OT network and generate audit-grade reports to avoid additional resource allocation



Solution Overview



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Proactive Alerting

Provide proactive alerts of overly-permissive rules to avoid future fines and reduce overall network risk





Enhance ROI from Existing Cyber Investments:

Network Traffic Monitoring / Asset Discovery

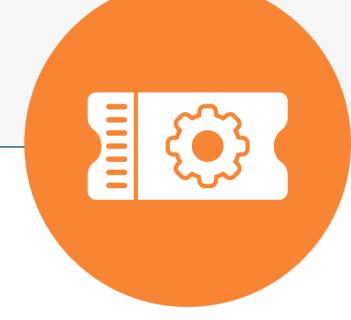
Enhance monitoring with asset context



Vulnerability Management

Prioritize patching using NP Map and the ability of vulnerability to propagate





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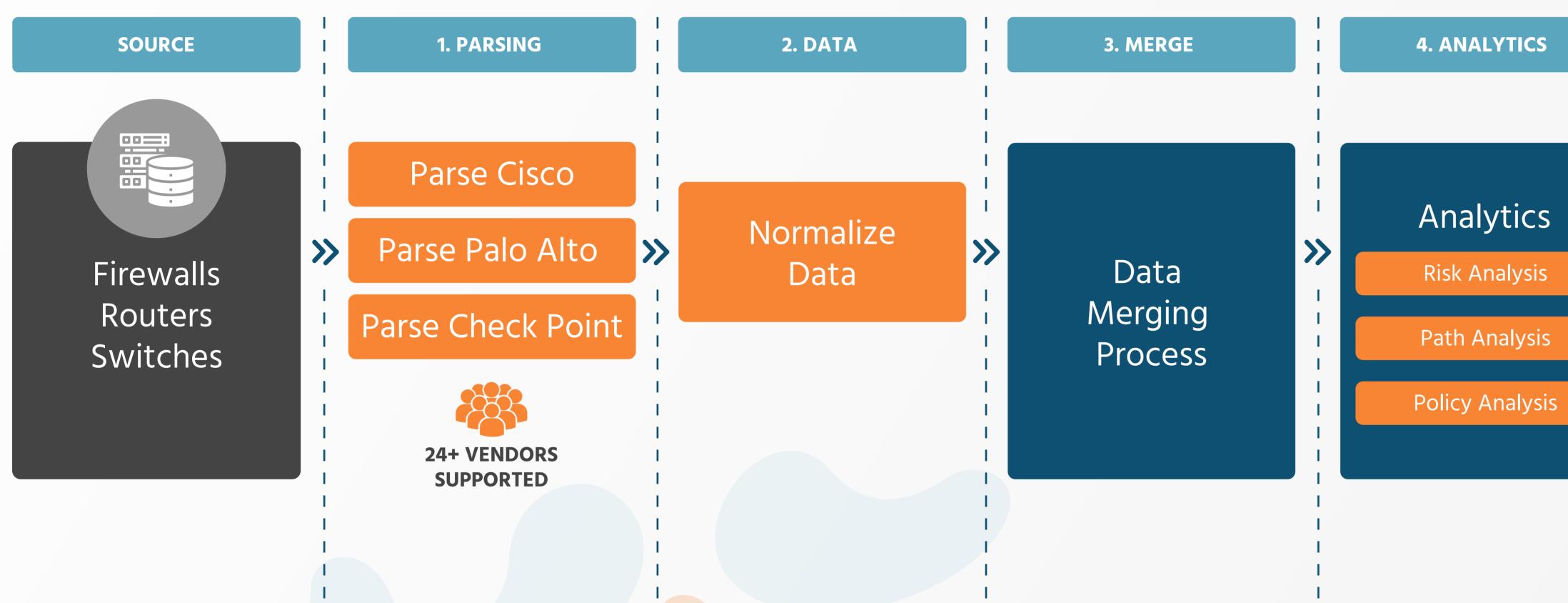
Ticketing Integration

Optimize OT network requests and change





NP-View: Read-only **Pipeline Process:**



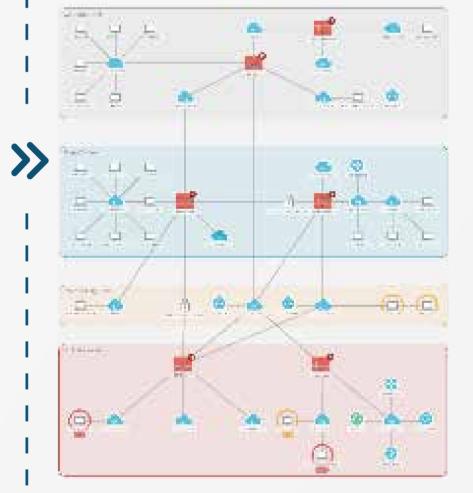
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NP-View: Normalizing Raw Config & Auxiliary Data Into a Unified Network Topology Proactive alerting of network changes with risk alerts • Full network access path analysis



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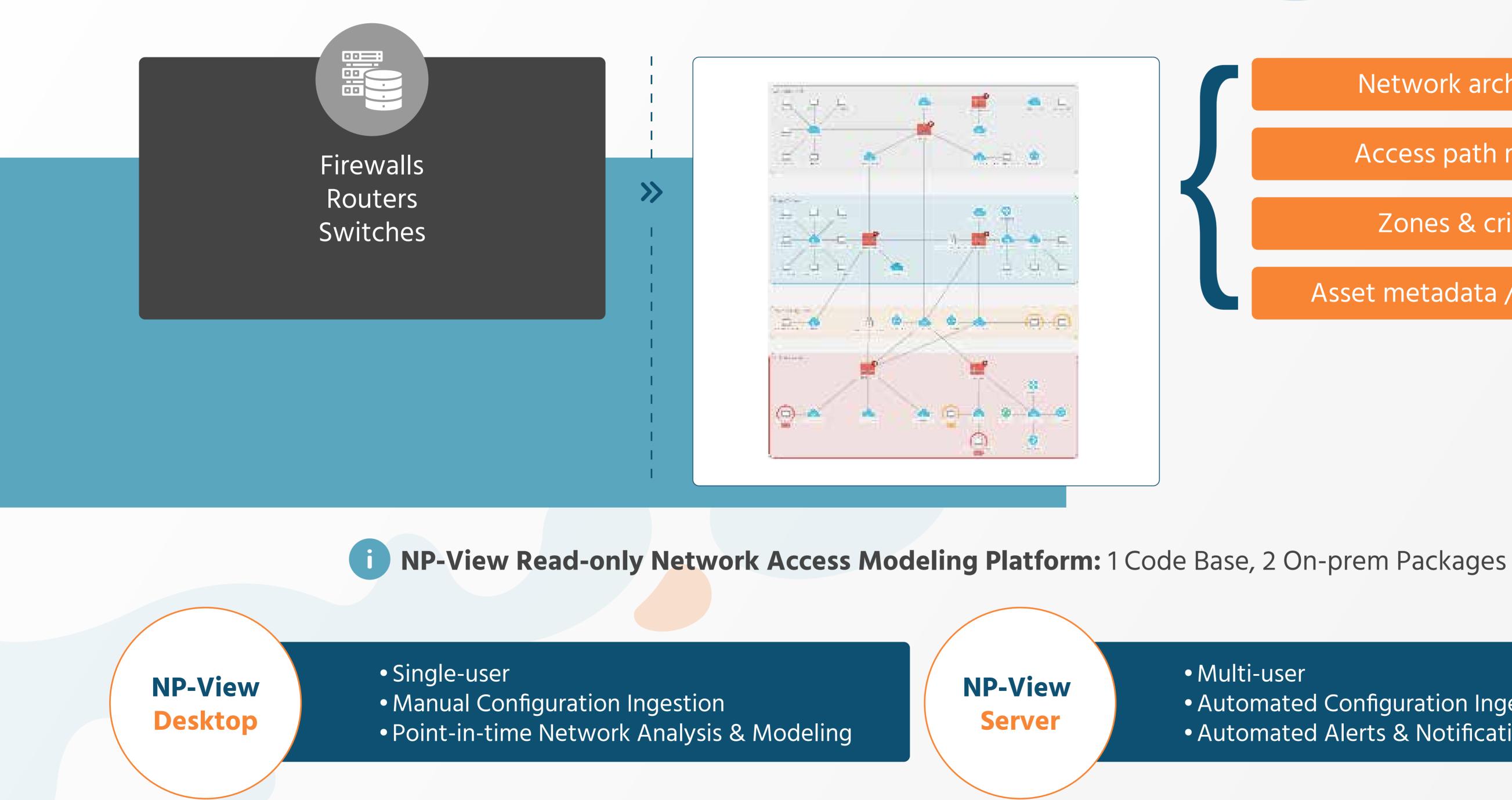
5. MAP RENDERING







NP-View: Independent Network Access Modeling & Verification:



Solution Overview

Network architecture

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Access path modeling

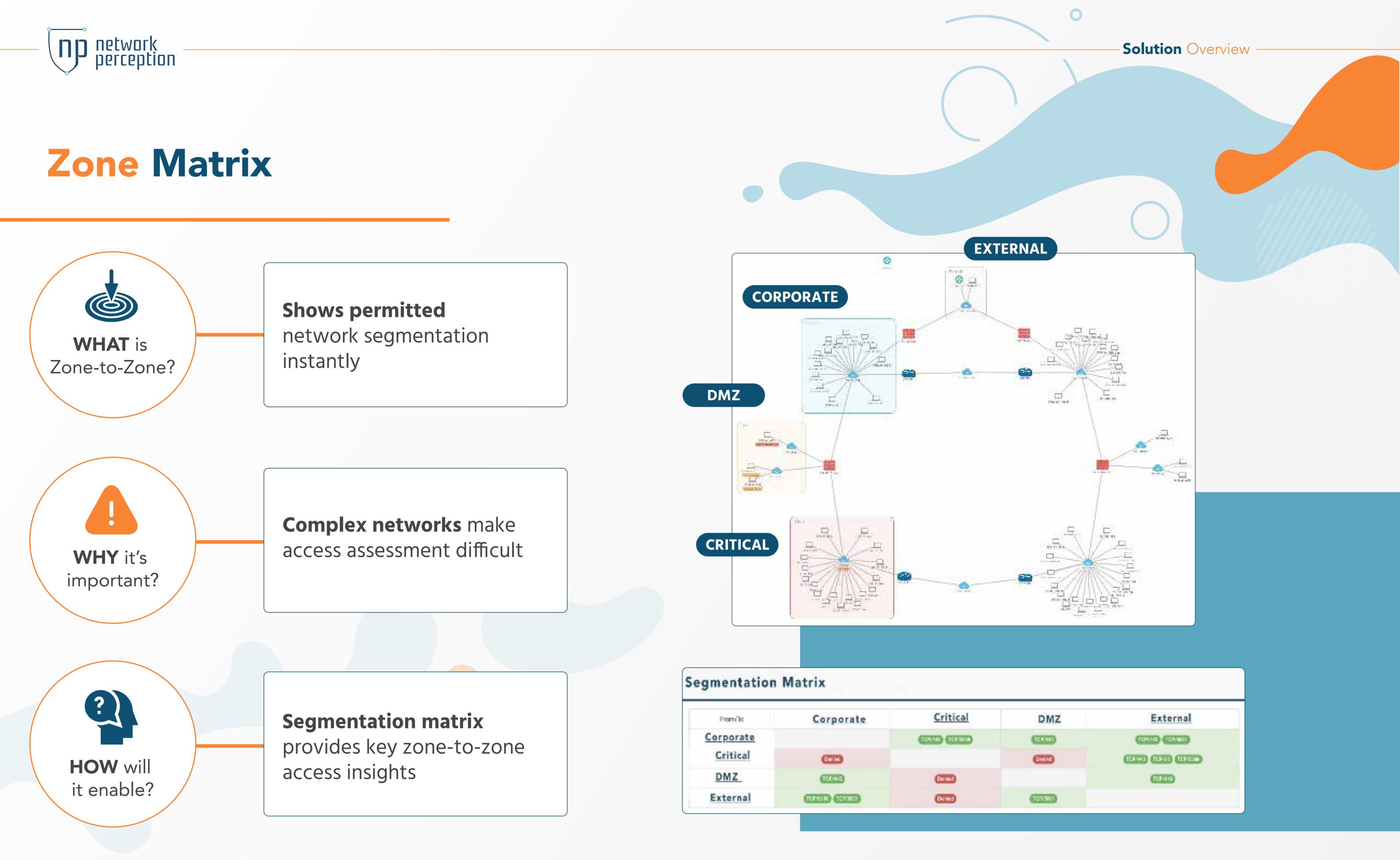
Zones & criticality

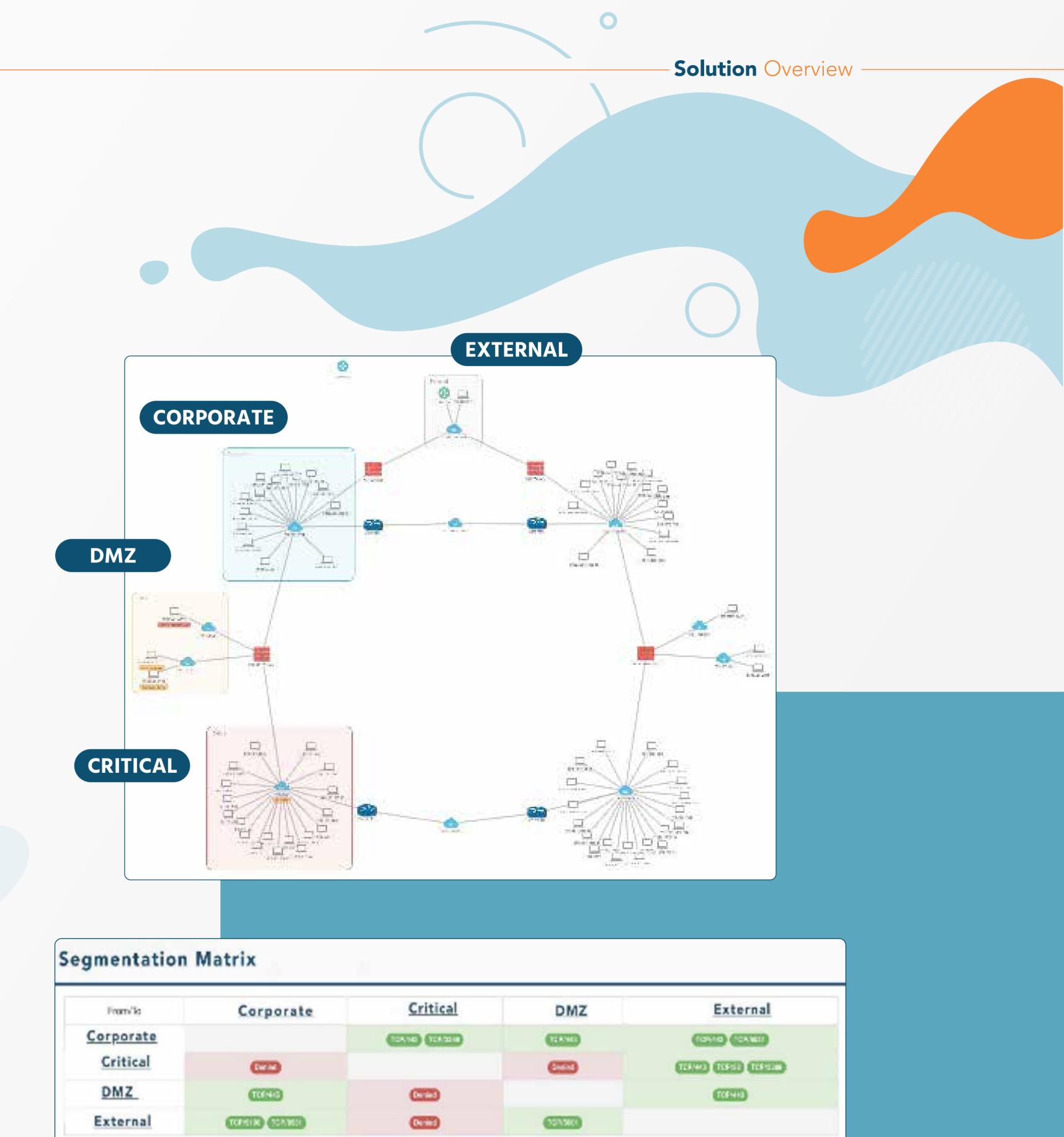
Asset metadata / annotation

 Automated Configuration Ingestion • Automated Alerts & Notifications







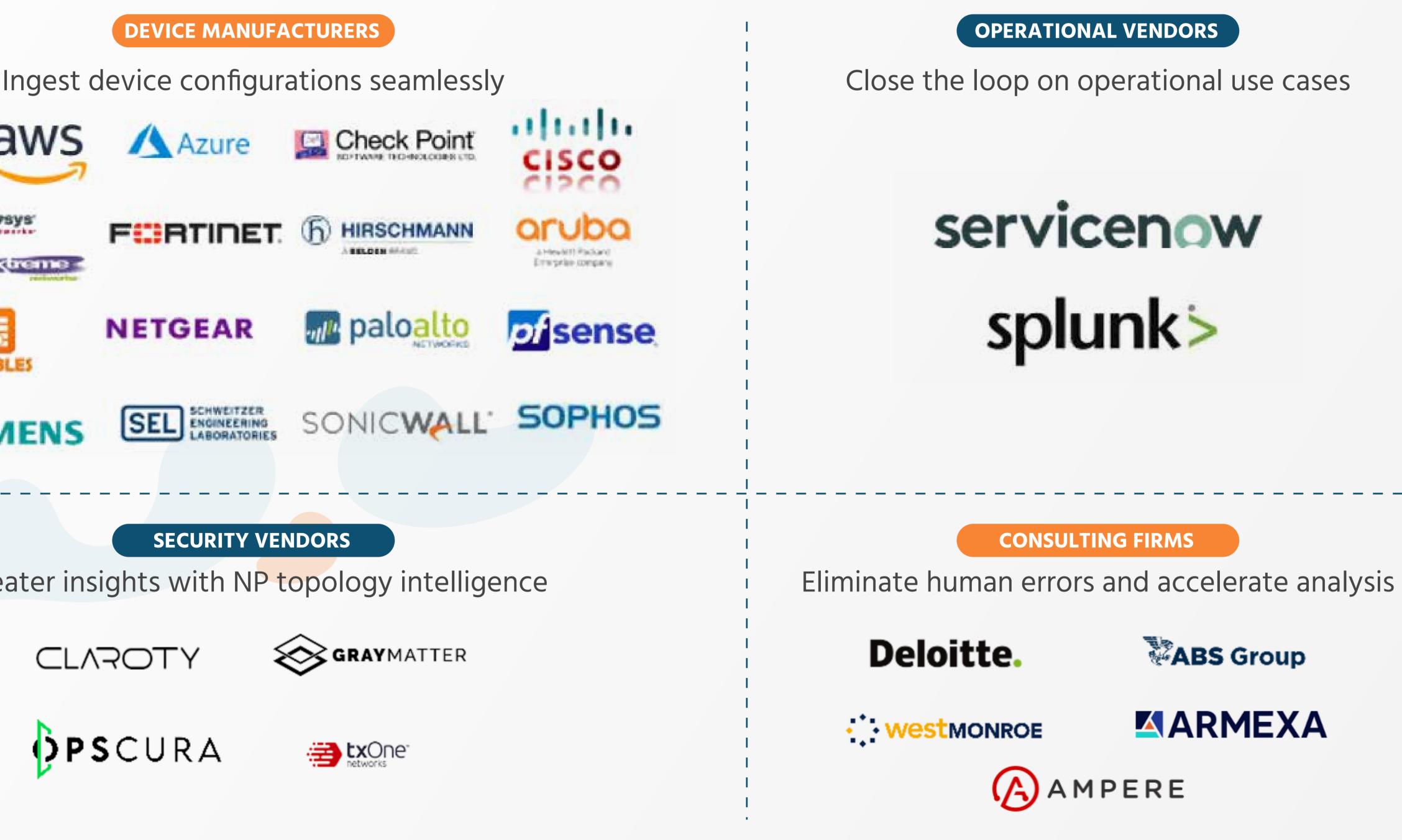






Investing in **Strategic Partnerships:**

Partner Ecosystem: Better Together





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Solution Overview





Hear from our Customers:



"We do a lot of assessments. NP View has allowed us to **streamline our** process and save our clients time and money."

-INDUSTRIAL CONTROLS **ENGINEERING FIRM**

"Prior to NP-View, it would take 2 engineers 16 hours to **analyze a** single firewall. Now, we complete a more comprehensive view in only two hours!"

-GLOBAL CONSULTING FIRM

"Manually, it would take 1 month of effort to **complete a site review**, but NP-View allows us to collapse that down to **2-4** hours!"

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-GLOBAL O&G CLIENT

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66 "NP-View provides a standardized approach to validating the state of network

> assets & configurations."

-EXTERNAL AUDITOR





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Contact Us:



There were 6000 vulnerabilities in 2016 and 00 vulnerabilities in 2022.

About Network Perception & NP-View

Network Perception protects industrial control systems by ensuring network access security as the first line of perimeter defense. NP-View software provides complete network transparency and continuous mapping to better support cybersecurity compliance and enable greater cyber resiliency. Launched in 2014 at the University of Illinois at Urbana-Champaign Research Park, Network Perception was founded by a team

of experts on network security and critical infrastructure protection and is inspired and informed by ongoing consultations with NERC, FERC, DOE, and DHS.



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Request a Demo

Solution Overview







Two Sides of Visibility:

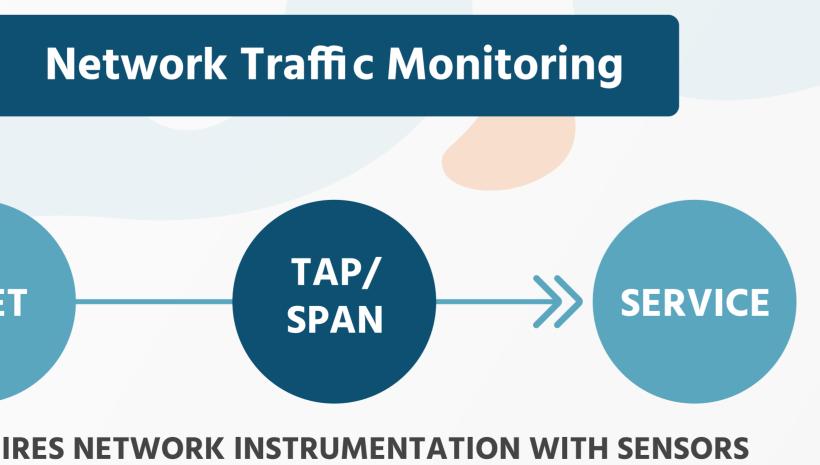
Network Perception provides a unique and lightweight network access modeling technology that complements traditional network traffic monitoring to offer a comprehensive network visibility solution.

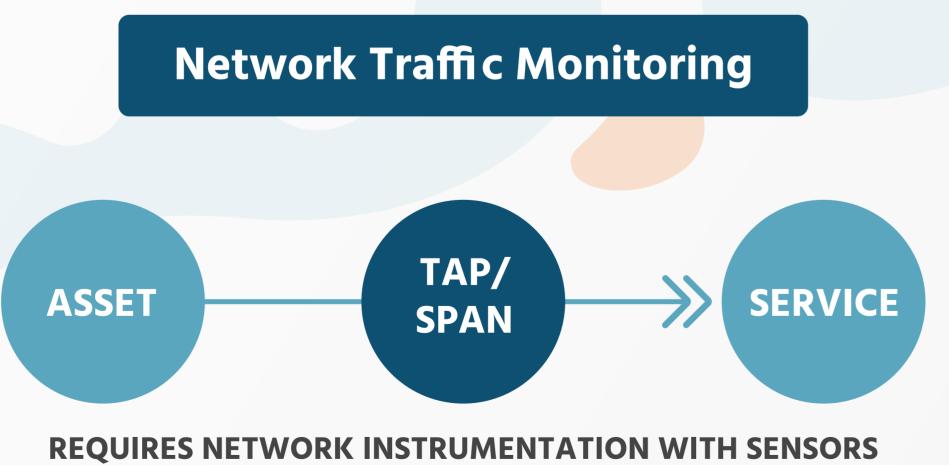


Analytic Monitoring: Monitor and detect adverse actions and conditions in a timely and actionable manner.



Which assets are connecting to which services





Dynamic Representation: Keep the representation of the network current. Enhance understanding of dependencies

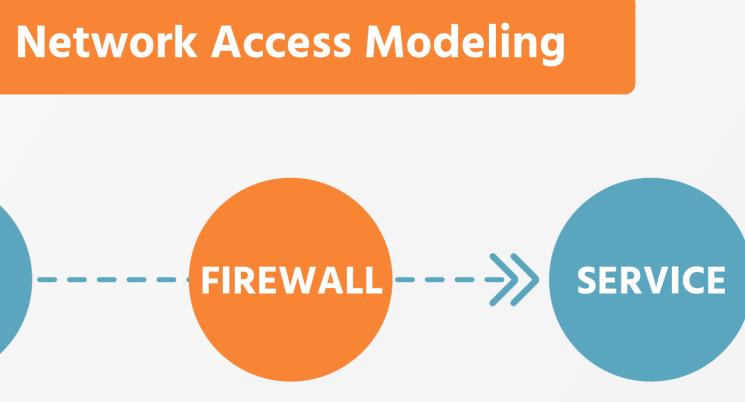


Which assets can connect to which services

FIREWALL ASSET

Solution Overview

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NO SENSOR APPROACH: ONLY FIREWALL CONFIG NEEDED