



NP-View Use Cases Beyond  
NERC CIP Audit

**Network Perception**

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**NP-View Training Webinar #5**

**Aug. 13, 2020**

- **Reminder on NP-View Resources:** [ 5min ]
  - Portal website and release cycle
  - Knowledge Base, Tech Support, and File Vault
  
- **Use Case Presentation:** [ 25min ]
  - Network mapping
  - Change management
  - Risk assessment
  - Demonstration
  
- **Q&A**

# Reminder on NP-View Resources

- **Resources:**

- Portal: [portal.network-perception.com](https://portal.network-perception.com)
- Knowledge Base: [kb.network-perception.com](https://kb.network-perception.com)
- Support: [support@network-perception.com](mailto:support@network-perception.com)

- **Solutions:**

<b>NP-View Java</b>	Stable user interface	<b>Offline desktop application for snapshot audit</b>
<b>NP-View HTML</b>	New user interface	
<b>NP-Live</b>		<b>On-premise server for continuous config monitoring</b>

- **Releases:**

- Quarterly stable release cycle (roadmap)
- Continuous patch releases (support requests)

- **Config Sanitizer and File Vault:**



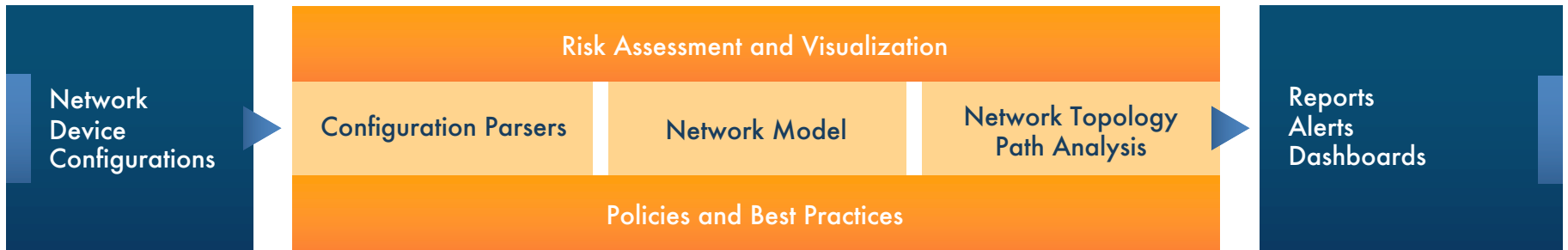
**Config Sanitizer** Automatically redact sensitive information

**File Vault** Secure File Upload and Encryption

Network mapping  
Change management  
Risk assessment

# USE CASES

# Architecture Overview



NP-View  
(Standalone)

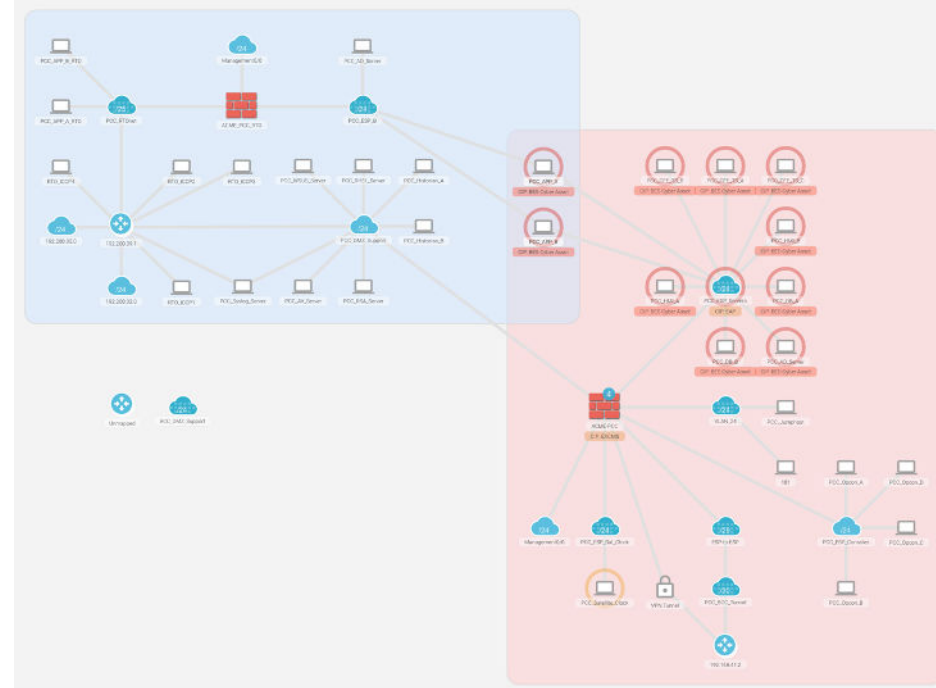


NP-Live  
(On Premise Server)

# Network Mapping



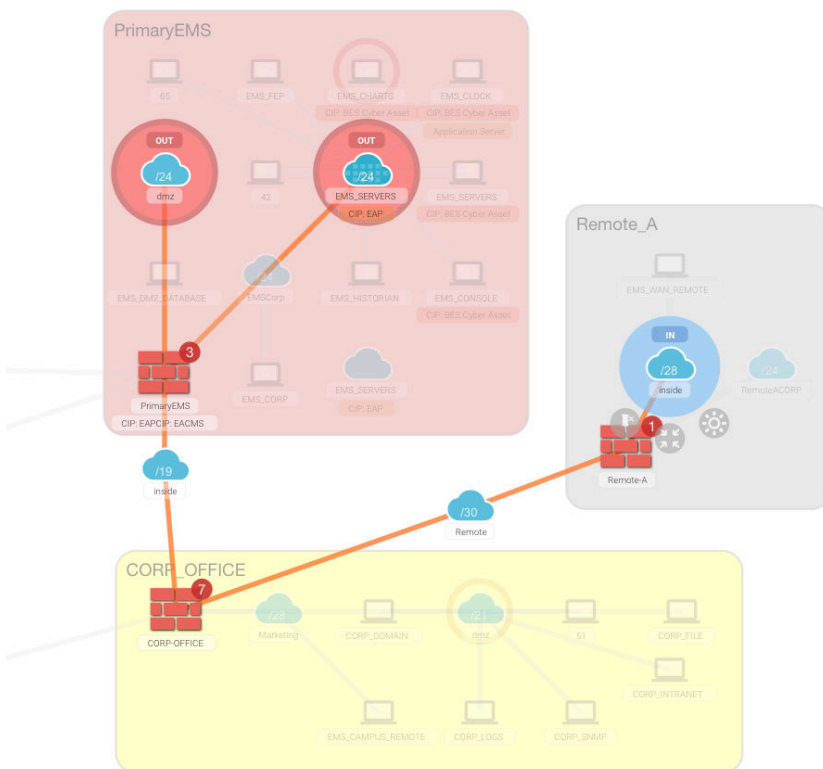
- **Goal:**
  - Keeping up-to-date documentation of the network diagram
- **Data needed:**
  - Network device configurations (firewalls, routers, layer-3 switches)
  - Routing information (optional)
  - Host information (optional)
  - Service information (optional)
- **Workflow:**
  1. Import configuration files
  2. Organize topology layout
  3. Identify network zones, label nodes and criticalities
  4. Export to Microsoft Visio or to an image file
  5. Define a refresh cadence (e.g., monthly) to import new version of configuration files



# Change Management



- **Goal:**
  - Reviewing and verifying the impact of the requested changes and documenting them for future reference
- **Data needed:**
  - Network device configurations (firewalls, routers, layer-3 switches)
- **Workflow:**
  - Import configuration files to create a baseline project
  - Define a refresh cadence (e.g., weekly) to import new version of configuration files
  - Review ruleset changes (access rules and object groups)
  - Run a path analysis and launch a comparison to review new paths and paths removed

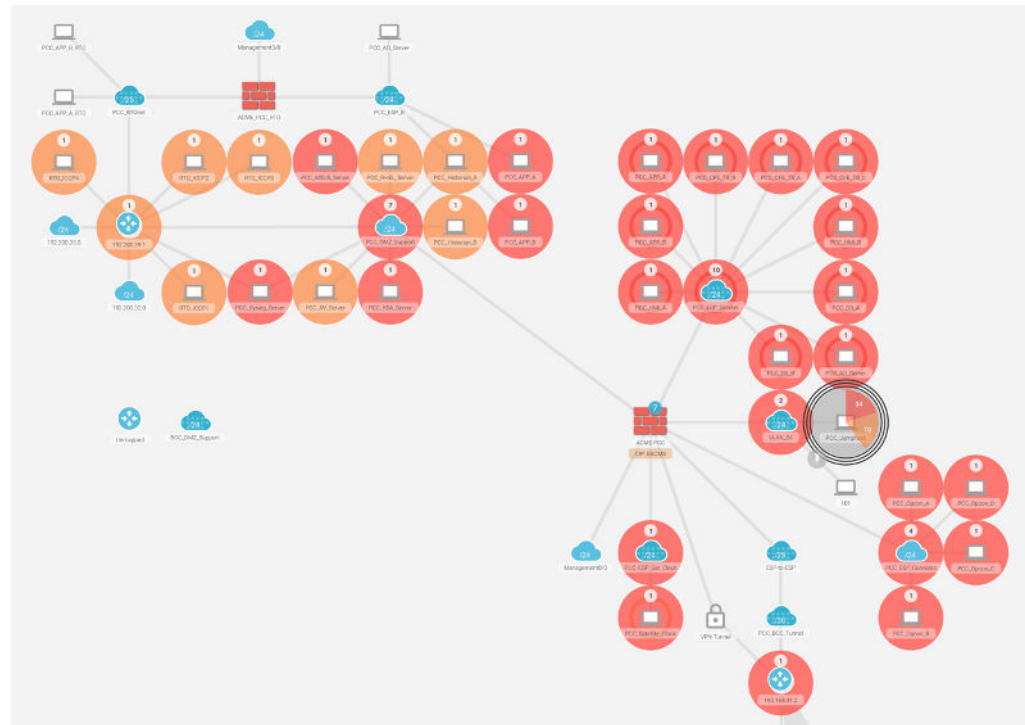


# Risk Assessment



- Goal:
  - Verify that rulesets follow best practices and internal controls
  - Assess vulnerability exposure to prioritize mitigation
- Data needed:
  - Network device configurations (firewalls, routers, layer-3 switches)
  - Vulnerability scan reports (optional)

- Workflow:
  - Import configuration files
  - Import vulnerability scan reports
  - Review risks and warnings for each network device
  - Run a path analysis and launch a stepping-stone access map for nodes with vulnerabilities





Network mapping

Change management

Risk assessment

# DEMONSTRATION





# Network Perception

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