# Juniper MIST Routing Assurance (SaaS)

Vijendra Singh,Reseller at Juniper Networks

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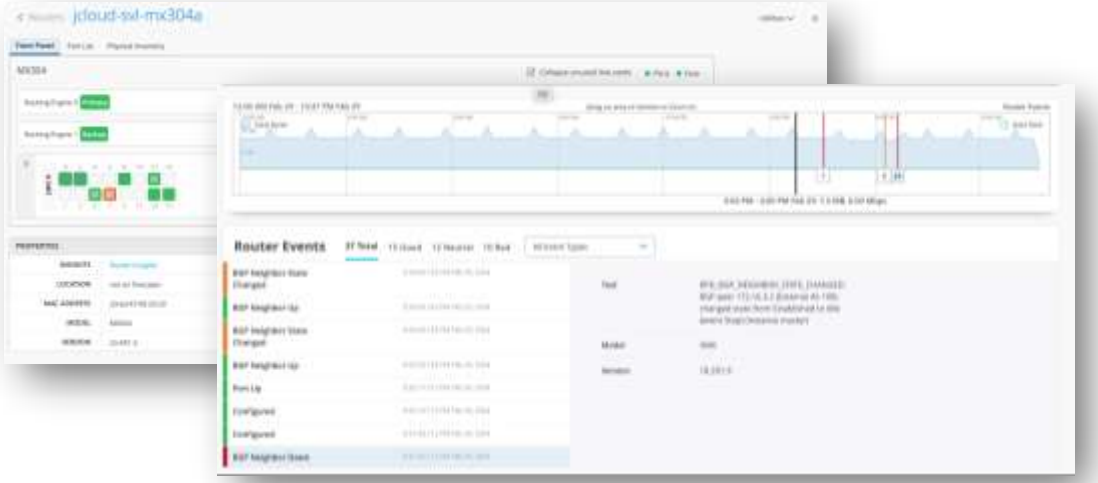
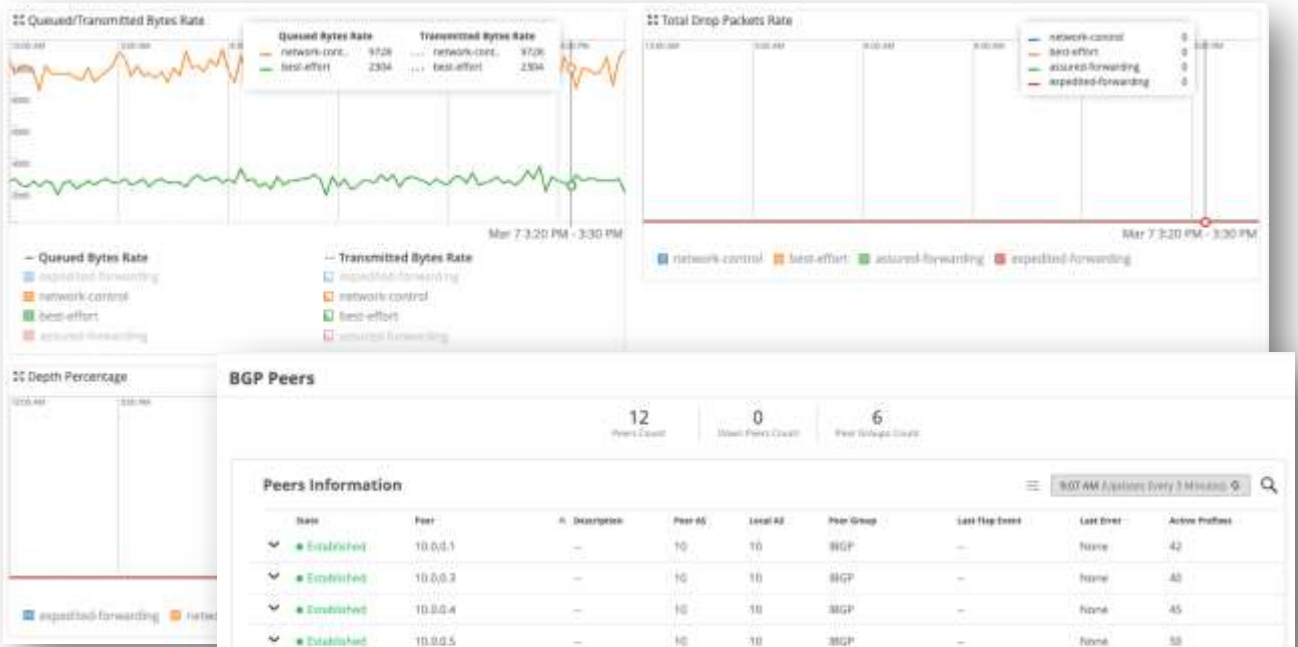
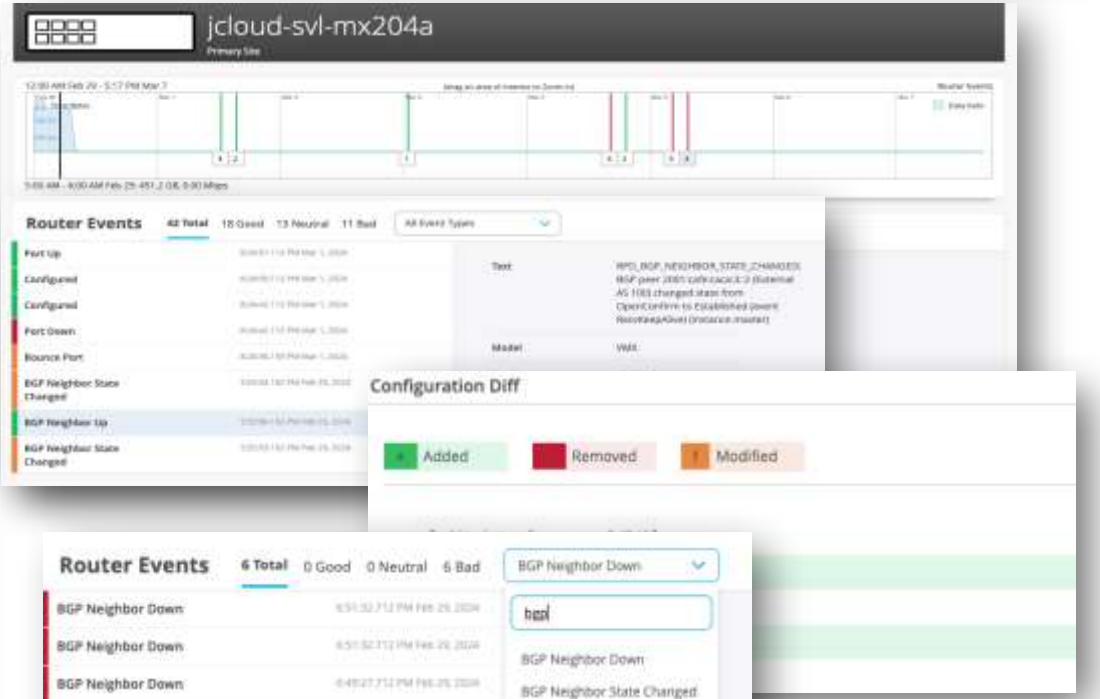
# New Routing Insights

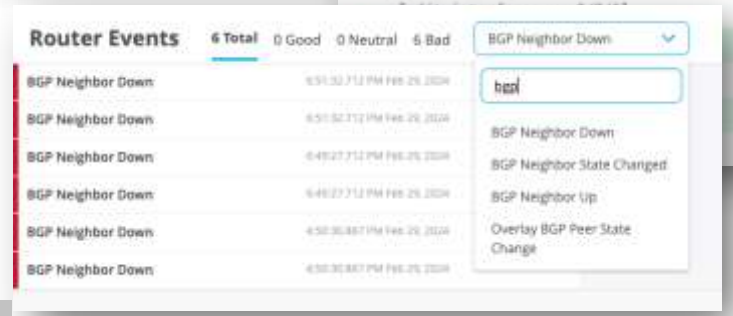
## Ease of operation now available for routing

- ✓ *Fast Device registration and onboarding*
- ✓ *Routing Insights (IGP, BGP, CoS, queues, Device health metrics …)*
- ✓ *Events / alarms (with Site Aggregation)*
- ✓ *Service Level Experience metrics*

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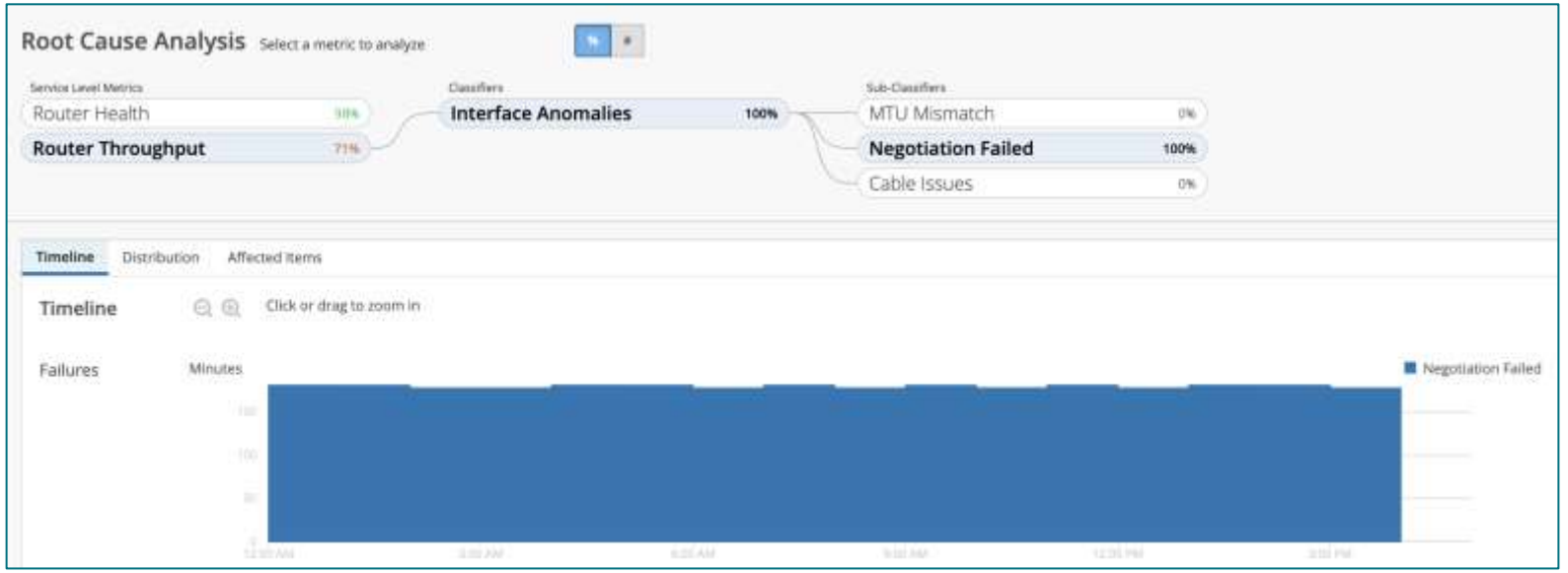
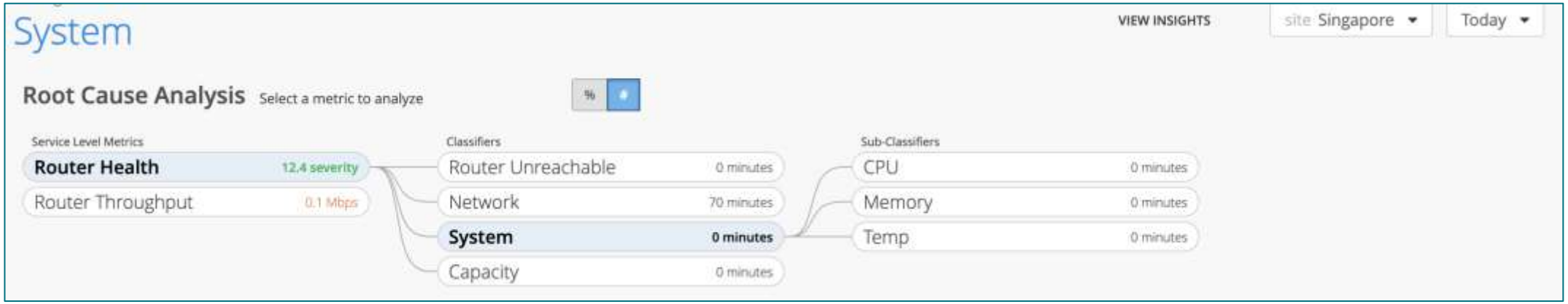
# Root Cause Analysis

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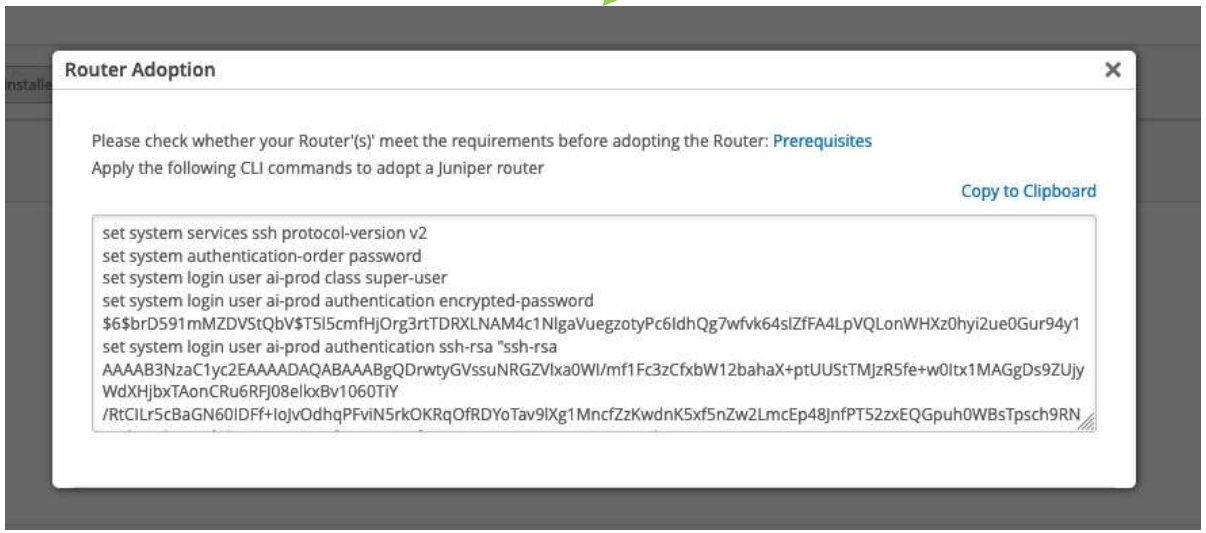
# Router Onboarding

- Inventory → Adopt Router
- Copy onboarding commands and apply to the router.
- Not onboarded?
  - *Check connectivity from device → cloud. Telnet oc-term.ai.juniper.net port 2200*
  - *Already in an Org? Devices can only be onboarded into one Org per deployment.*
- Assign to Site
  - *Connectivity and Stats are not available until the device is assigned to a Site.*

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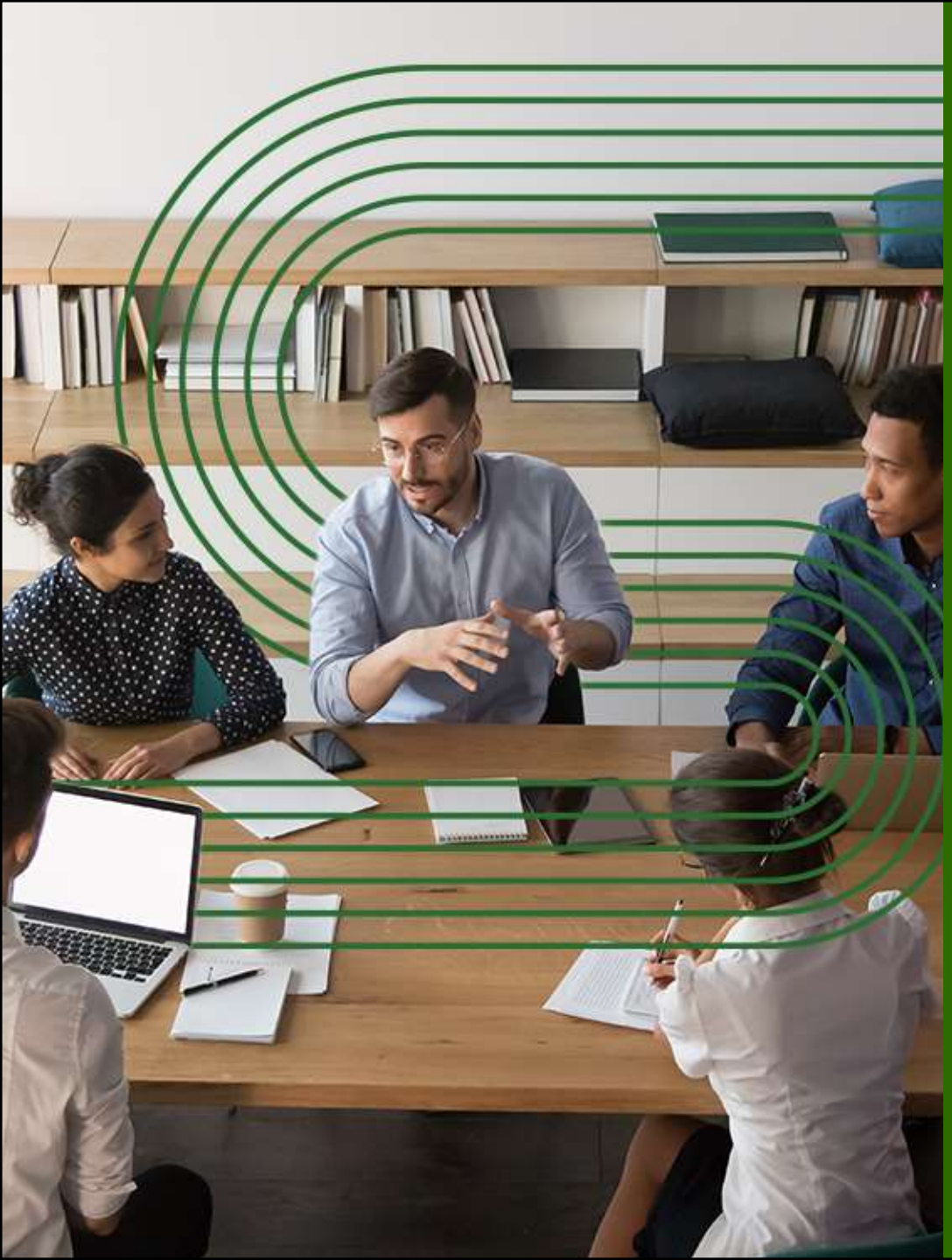

# Juniper MIST
# Full Stack Portfolio

Vijendra Singh,Reseller at Juniper Networks

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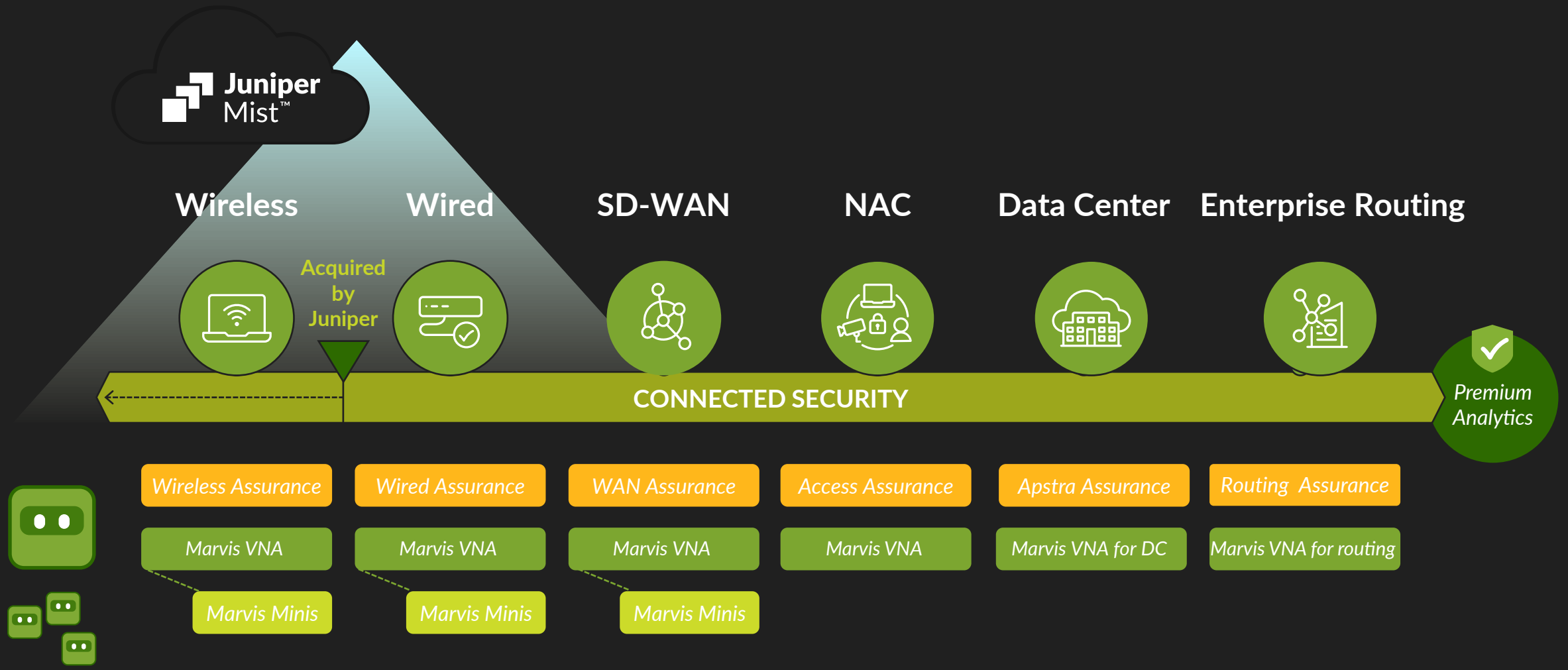
# Enterprise Blueprint:

*Extending common cloud and VNA across the Juniper portfolio*

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# Why are we better?

## USER EXPERIENCE OUTCOMES

- **Deploy Networks 10x Faster**
- **Get extreme visibility Client to Cloud**
- **Reduce Trouble Tickets by > 80%**
- **Keep Networks Always up to date**
- **Do more with less with Industry leading AIOps**

## PORTFOLIO DIFFERENTIATION

### CLOUD /AIOps

**Scalability & Resiliency**
*Deliver a consistent experience whether it is a 10 AP - 300K AP*

### WIRELESS

*Dynamic PCAP*
*Marvis Minis*
*AI-Driven RRM*

### WIRED

*Day 0 Automation: Templates & DPC*
*Dynamic PCAP, Marvis Minis & Actions*

### SD-WAN

*Tunnel-free*
*Zero-Trust*
*Day 2 simplicity with SLE, Dynamic PCAP, Application visibility*

### CLOUD NAC

*Eliminate Day 0*
*Massive improvement in Day 2 activities over ISE & Clearpass*

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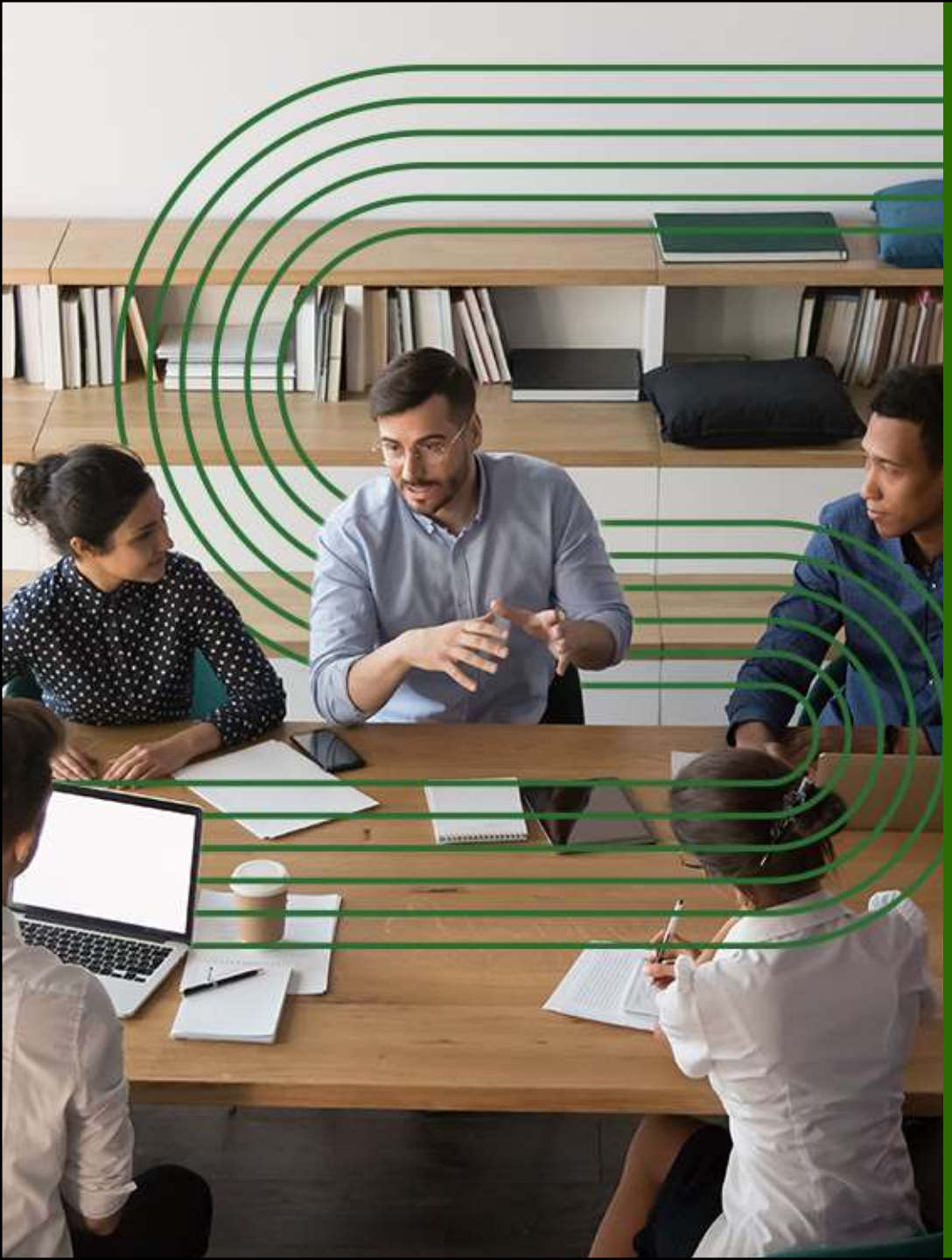

# Juniper MIST AI-Native Wired Assurance

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# Campus and Distributed Branch Architectures

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Juniper Mist™

## Small/Medium Campus — Virtual Chassis/ EVPN Multihoming (EZ-LAG)

- *Ideal for SMB use cases.*
- *Ideal for topologies transitioning from legacy/proprietary technologies to EVPN based fabric i.e. STP, MC-LAG.*

**E.g.: Big box retail store/Small Campus**

## Campus/HQ — Campus Fabric Core-Distribution

- **Ideal for medium to large scale topologies.**
- **Recommended for use cases where Access layer is L2 with standard LACP.**

**E.g.: University/Large Campus**

## Campus/HQ — Campus Fabric IP Clos

- *Micro segmentation (GBP) use cases.*
- *Greenfield and L3/VXLAN at the Access Layer.*

**E.g.: Hospital/Large Enterprise**

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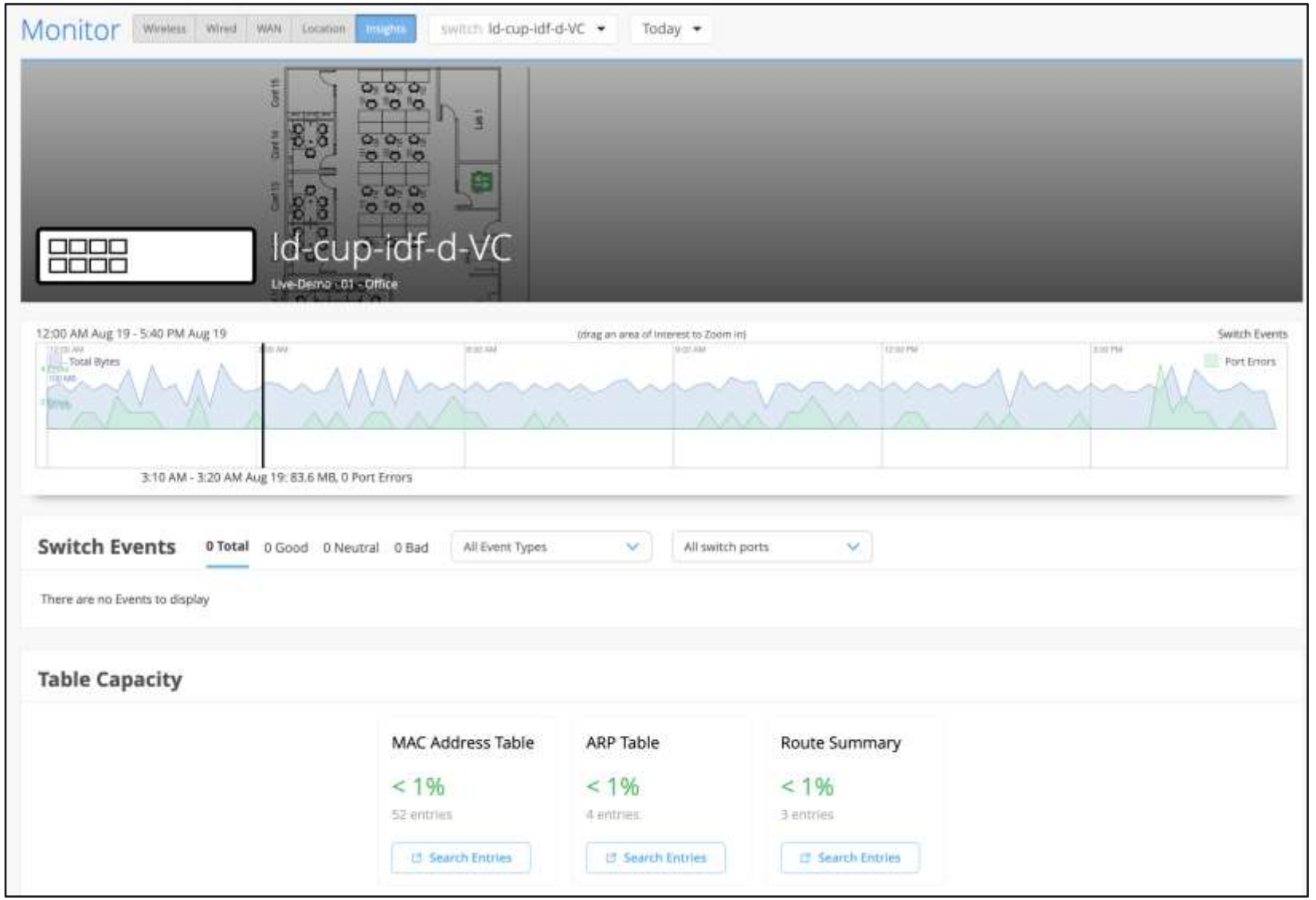
# Switch Capacity

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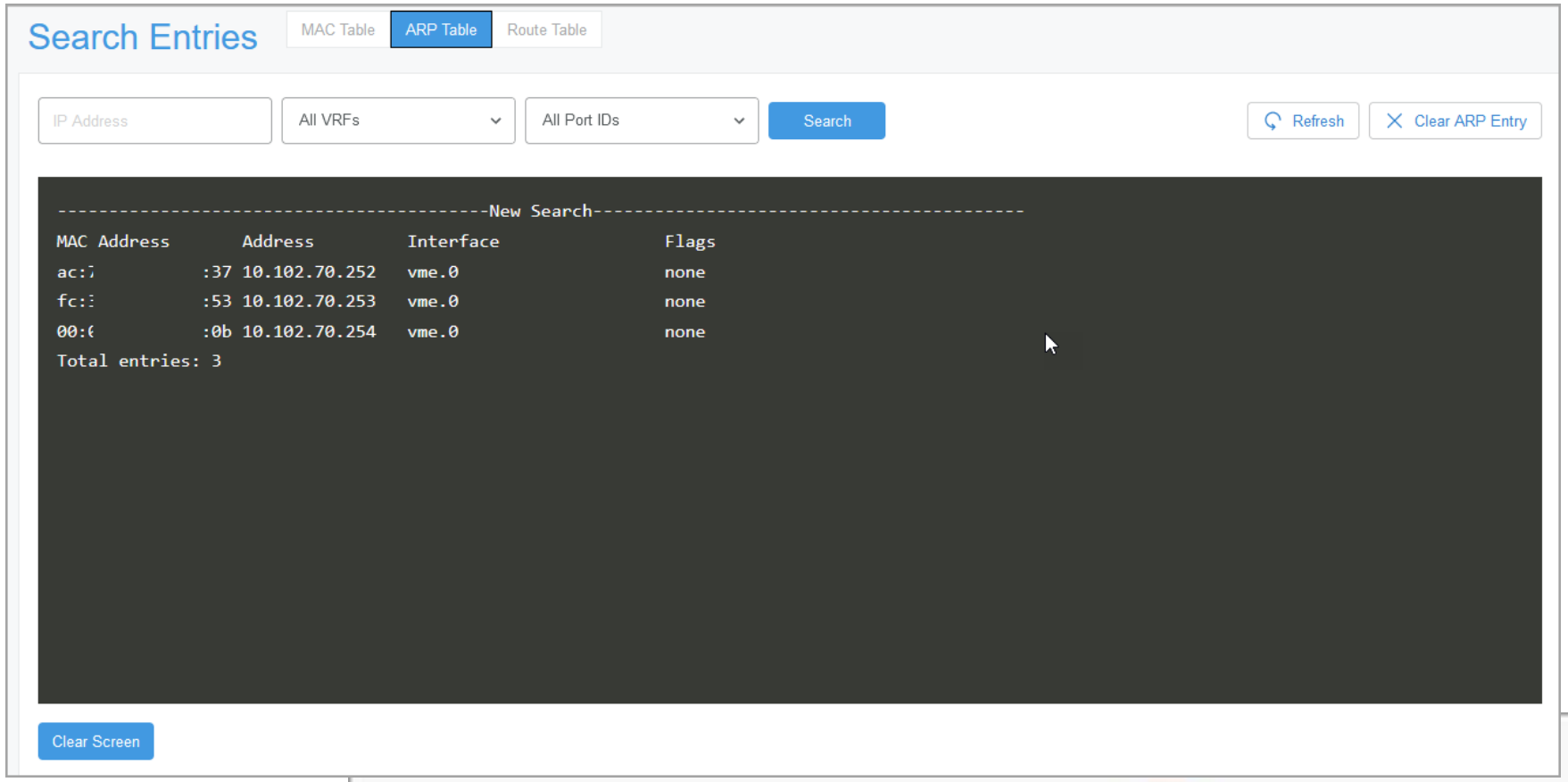
# Switch Capacity



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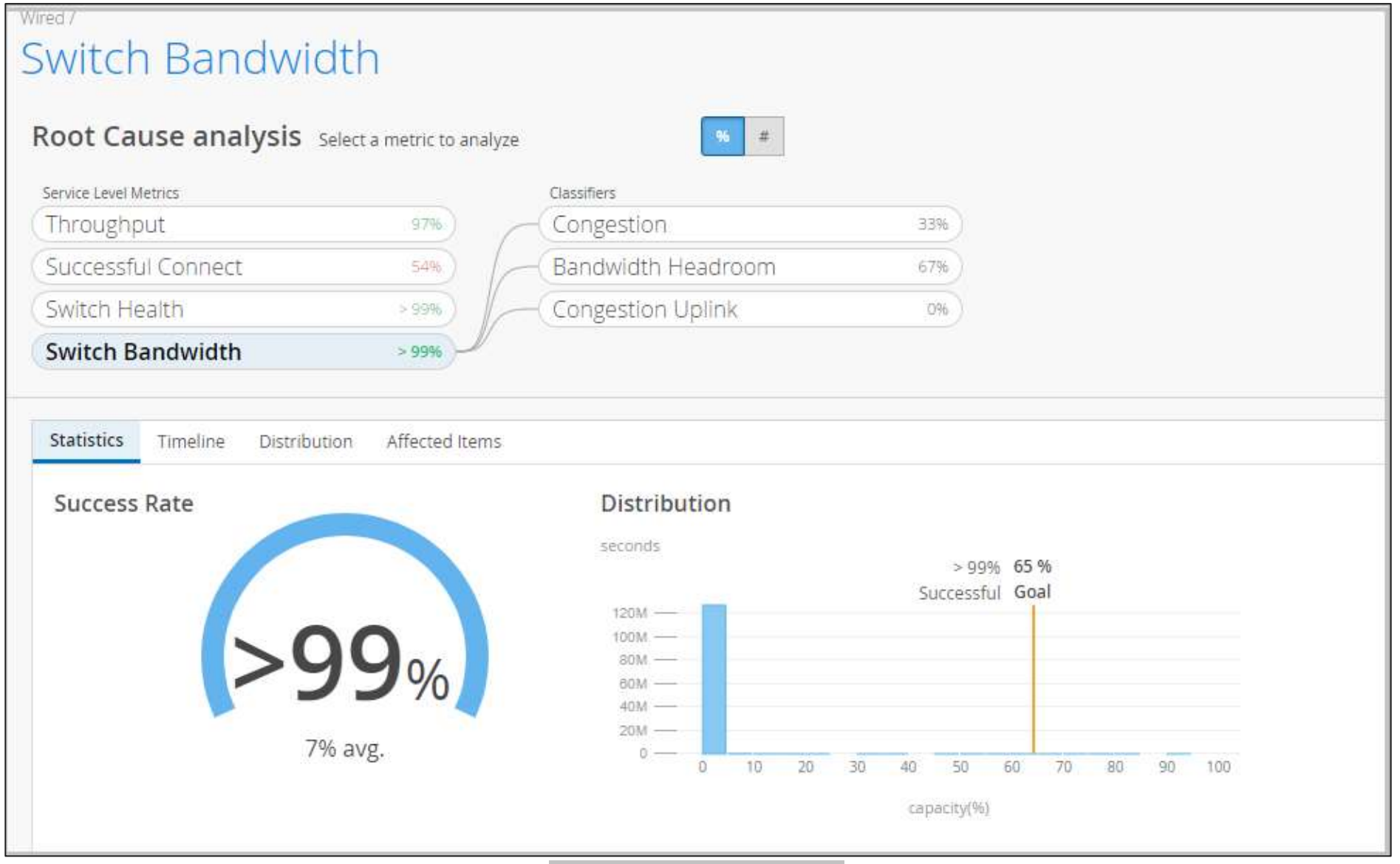
# Bandwidth SLE

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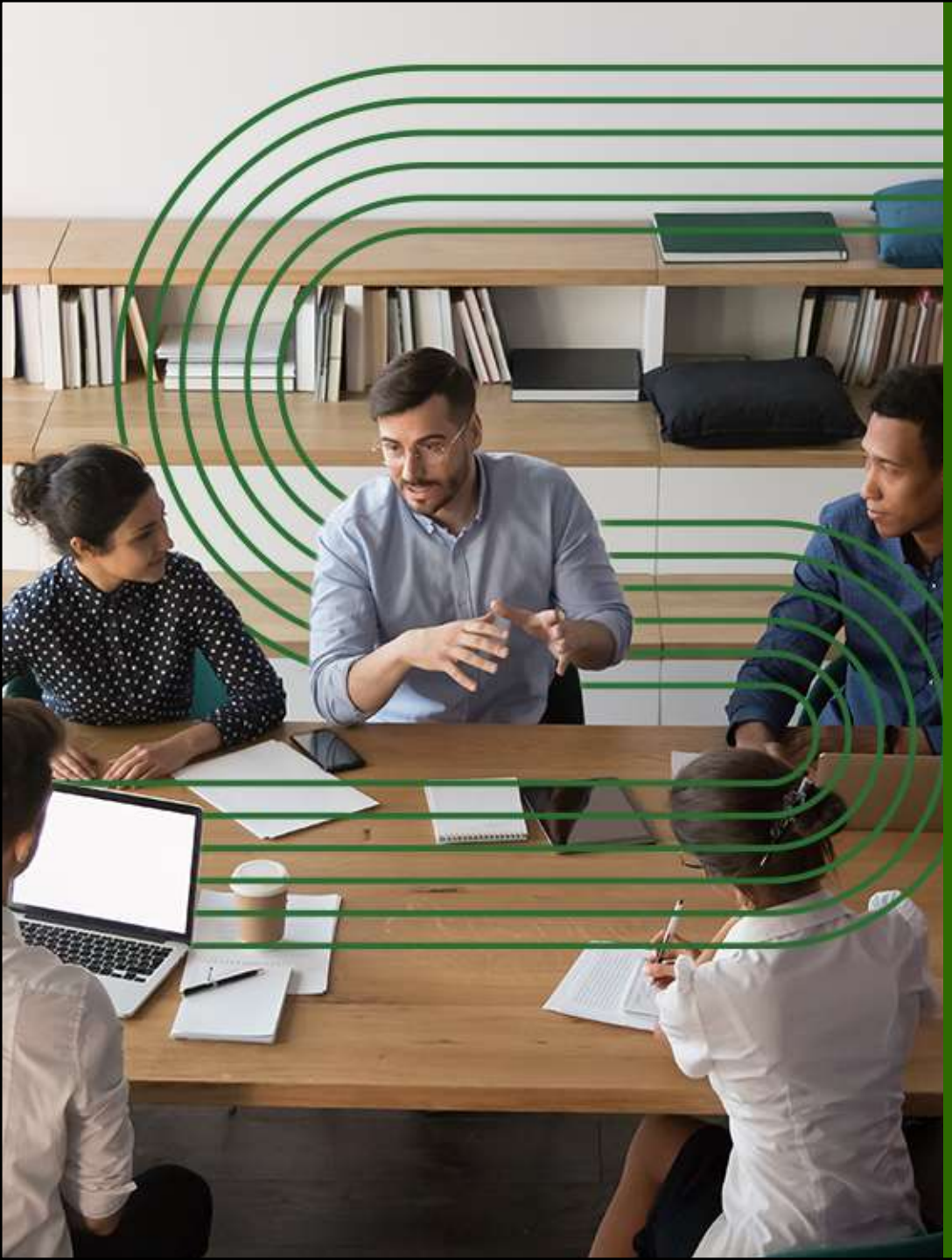

# Juniper Mist WAN Assurance (SD-WAN)

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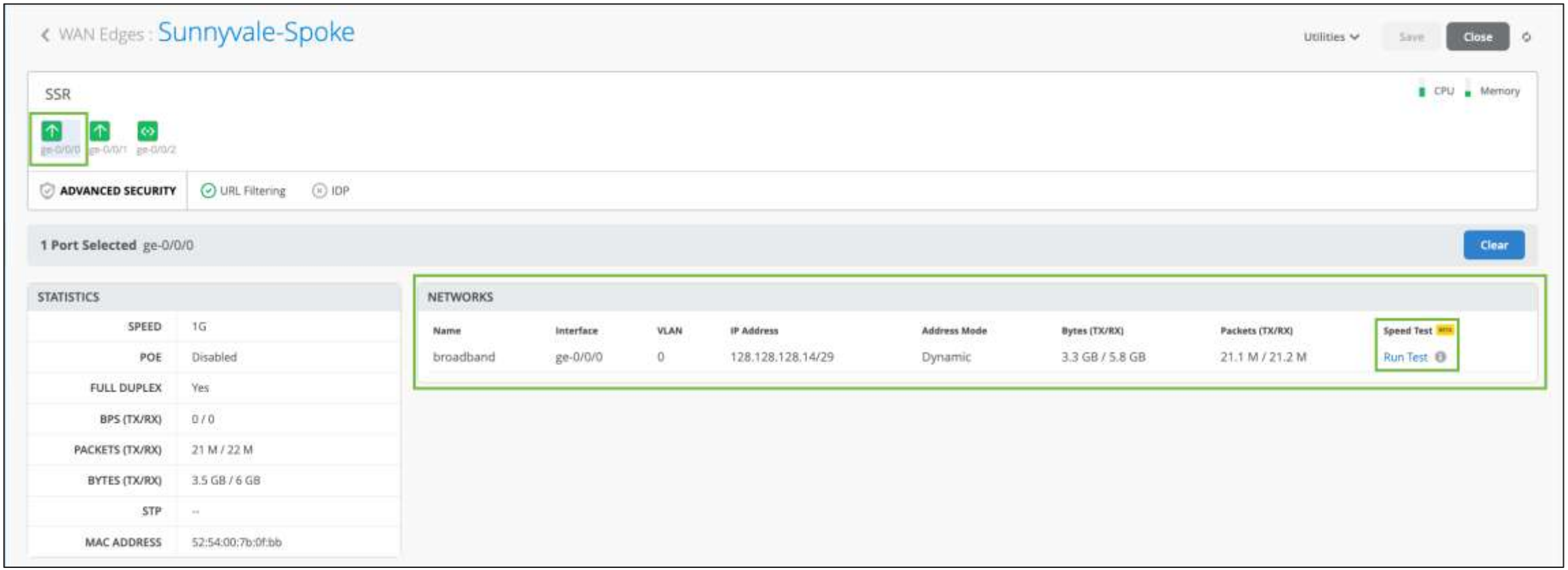
# WAN Edge SSR Speed Test




## On-demand Speed test

*1. Select WAN interface from front panel*

*2. View historical tests*

*3. Select Run Test to begin an on-demand speed test*

## Scheduled Speed test

*1. From Site settings select day/time to run speed test*

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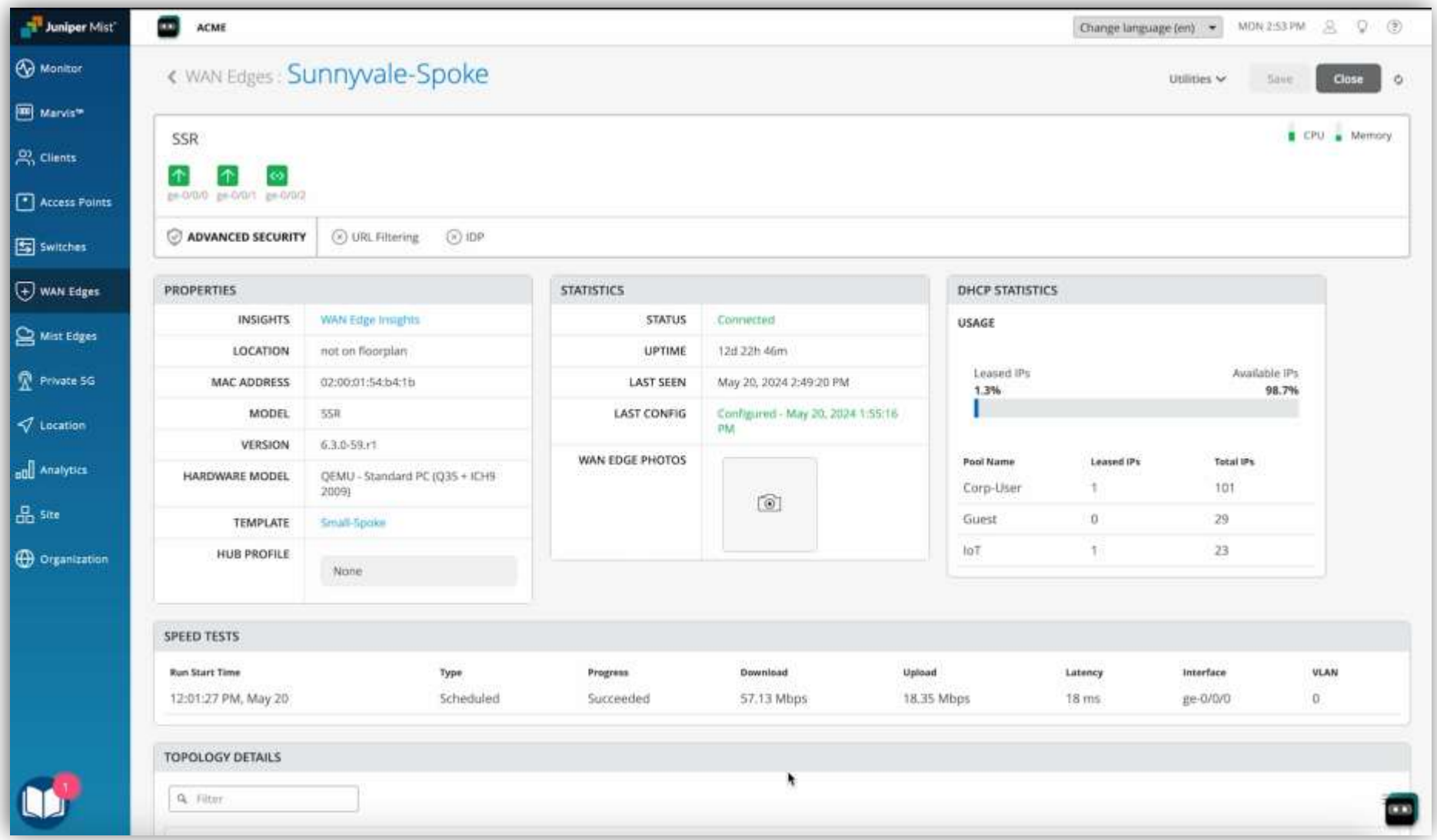
# WAN Speed Test Demo

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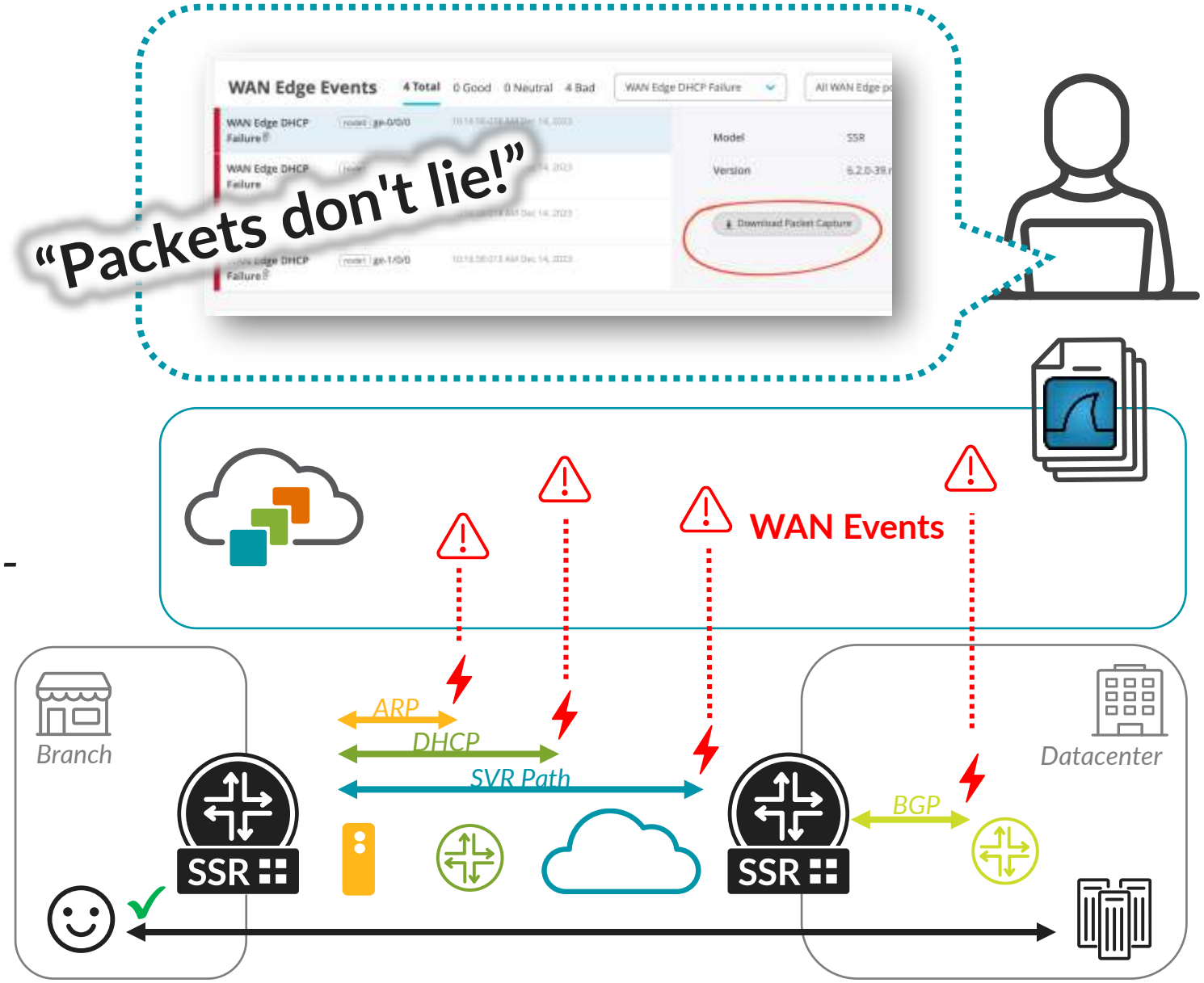
# WAN Dynamic PCAP

- *SSR gathers packet captures around key triggers*
- *Relevant packets sent to Mist along with event telemetry*
- *PCAP downloads associated with events at your fingertips*
- *Simplify debugging with on-the-wire proof*

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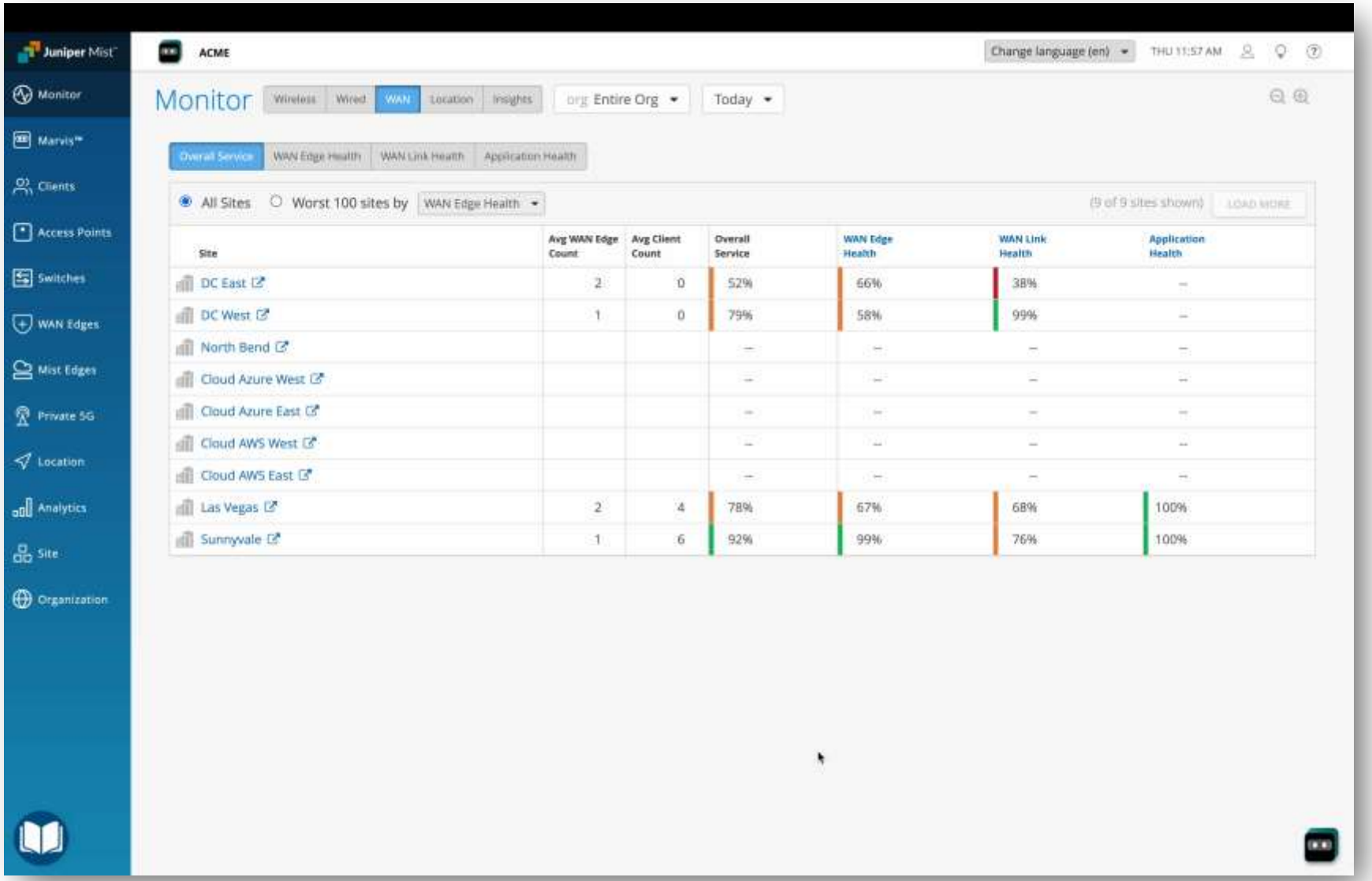
# WAN Dynamic PCAP Demo

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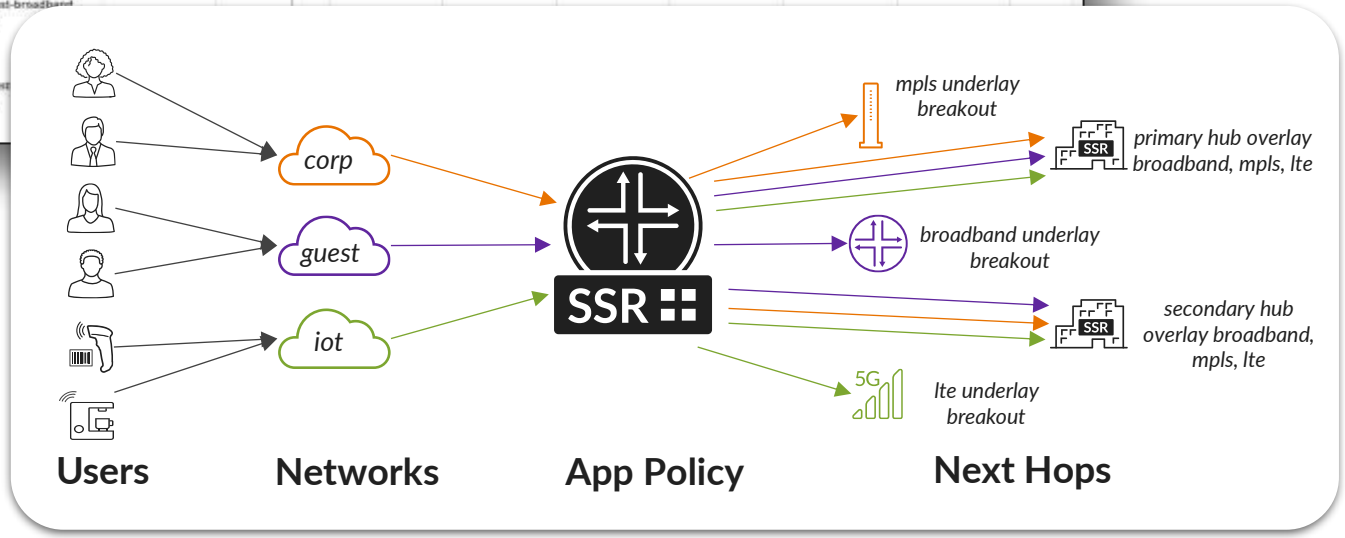
# App Routing Insights




- ✓ *See Session Smart Routing in action!*
- ✓ *Visibility into user experience being saved over time*
- ✓ *Key insights into:*
  - **How much** *traffic is arriving for apps*
  - **Who** *is it coming from*
  - **Where** *is the traffic being sent*
  - **What** *is affecting path selection*
    - *ARP unresolved*
    - *No address from DHCP*
    - *Dynamic routing protocol change*
    - *SLA not met*
    - *Path down*
    - *Probe down*
    - *Port down*
    - *Config change*

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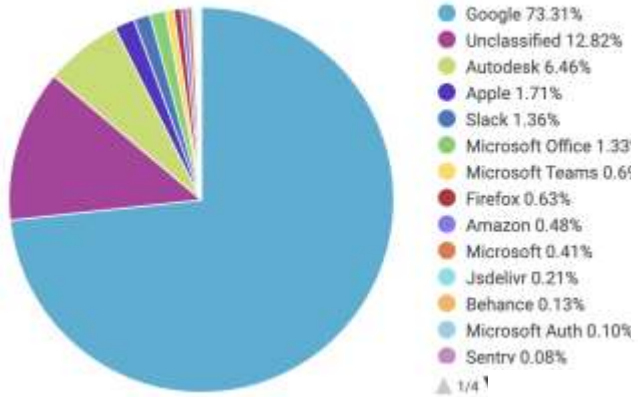
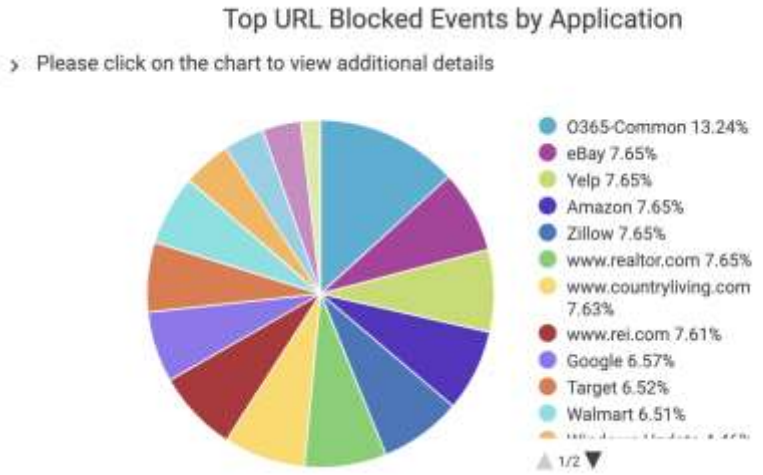
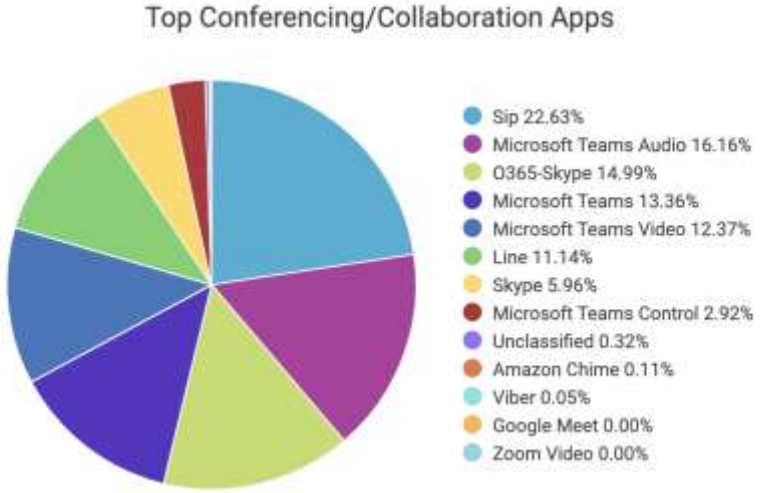
# Security Assurance Insights in Premium Analytics

- ✓*Global Security Insights*
- ✓*Attack trends and summary*
- ✓*Detailed IP source/dest info*
- ✓*Scheduled delivery of PDF/CSV via email*




*Key differentiator: Living dashboards that may be customized based upon desired filters*

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# Thank you

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