

# Juniper MIST Routing Assurance (SaaS)

Vijendra Singh, Reseller at Juniper Networks





Juniper Paragon

Juniper MIST Routing Assurance

SaaS Only

Juniper only

On-prem

Multi-vendor

Day -0,1,2

Customizable





Day 2 AIOPS

Recommended settings

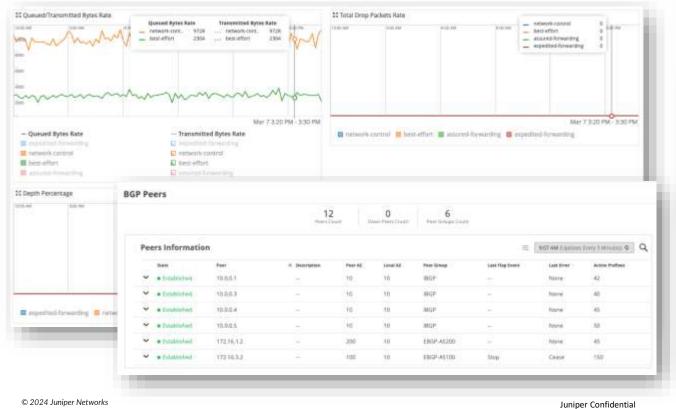
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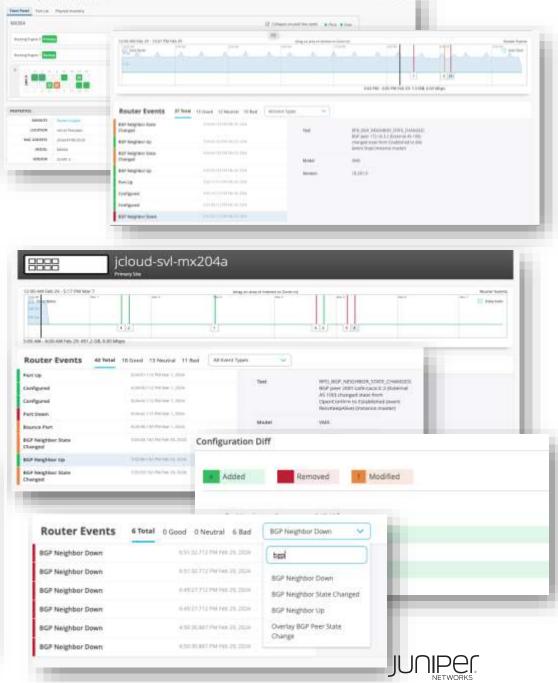
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# **New Routing Insights**

### Ease of operation now available for routing

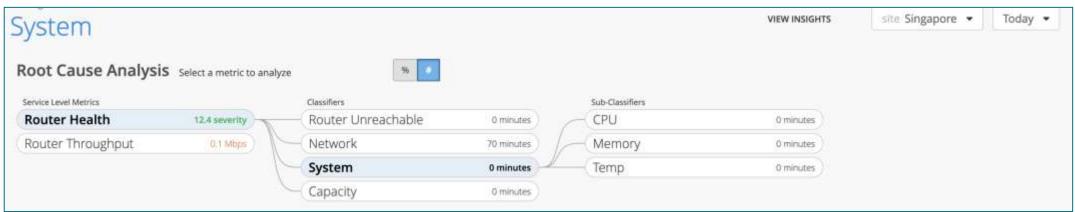
- ✓ Fast Device registration and onboarding
- ✓ Routing Insights (IGP, BGP, CoS, queues, Device health metrics ...)
- ✓ Events / alarms (with Site Aggregation)
- ✓ Service Level Experience metrics





# **Root Cause Analysis**



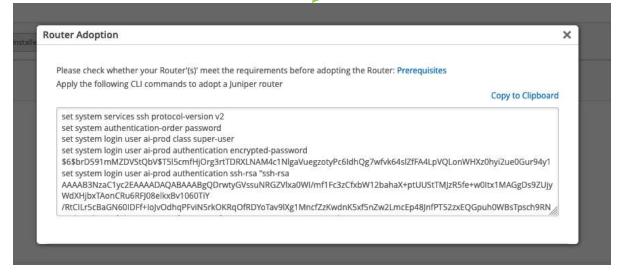




# **Router Onboarding**



- Inventory → Adopt Router
- Copy onboarding commands and apply to the router.
- Not onboarded?
  - Check connectivity from device  $\rightarrow$  cloud. Telnet oe-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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### **INITIAL PLATFORM SUPPORT**

Small Size Enterprise Edge, Provider Edge, DC Edge, Peering MX.

MX204, MX304, ACX7024





# Marvis VNA Expanded for Enterprise Routing



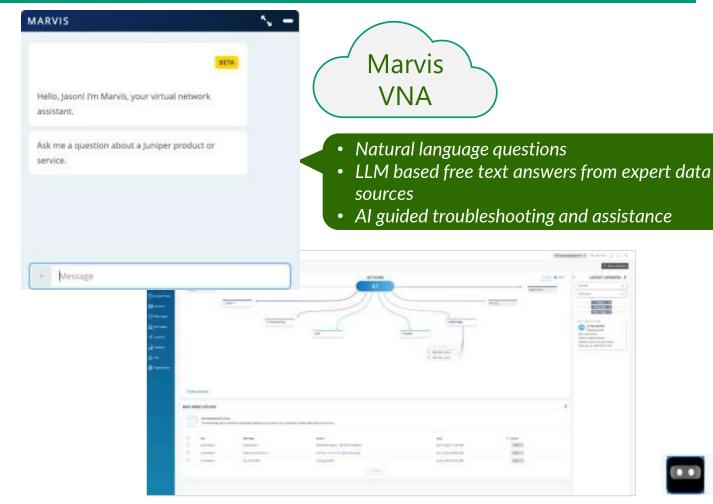
### MARVIS VNA across Wired, Wireless, Data Center, SD-WAN and now Enterprise Routing.

Supported at LAUNCH for Juniper MIST Routing **Assurance** 

Conversational interface(CI): Query network configurations and ask detailed product questions.

### SOON

**Proactive Actions:** *Identify and* fix issues before users notice performance degradations.









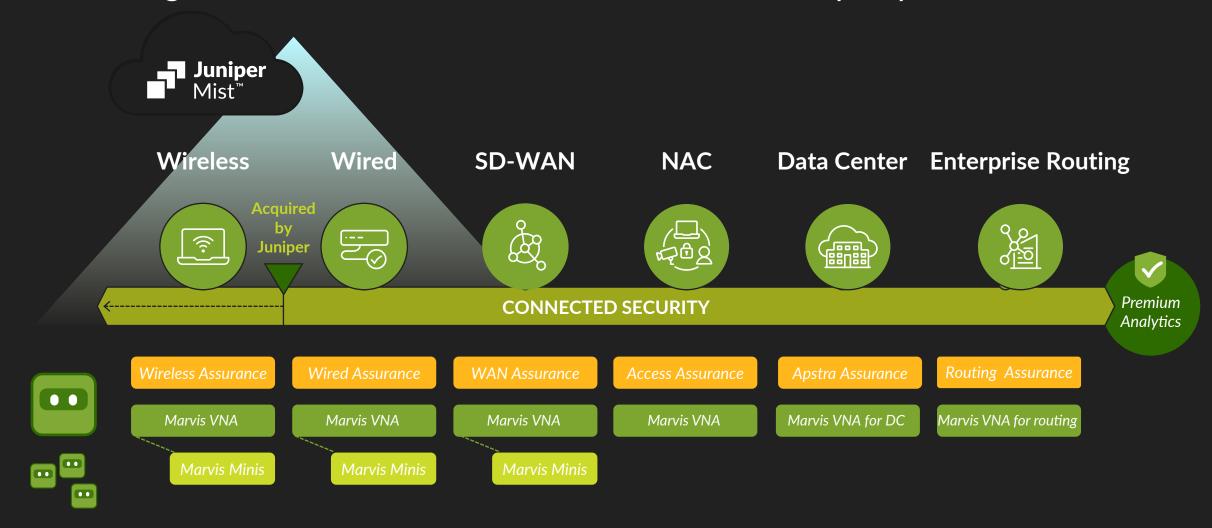
# Juniper MIST Full Stack Portfolio

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# Enterprise Blueprint:

Extending common cloud and VNA across the Juniper portfolio





# 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 Al-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





# Juniper MIST Al-Native Wired Assurance

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# Campus and Distributed Branch Architectures





### 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.



### Campus Fabric Core-Distribution

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



# Campus Fabric IP Clos

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



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



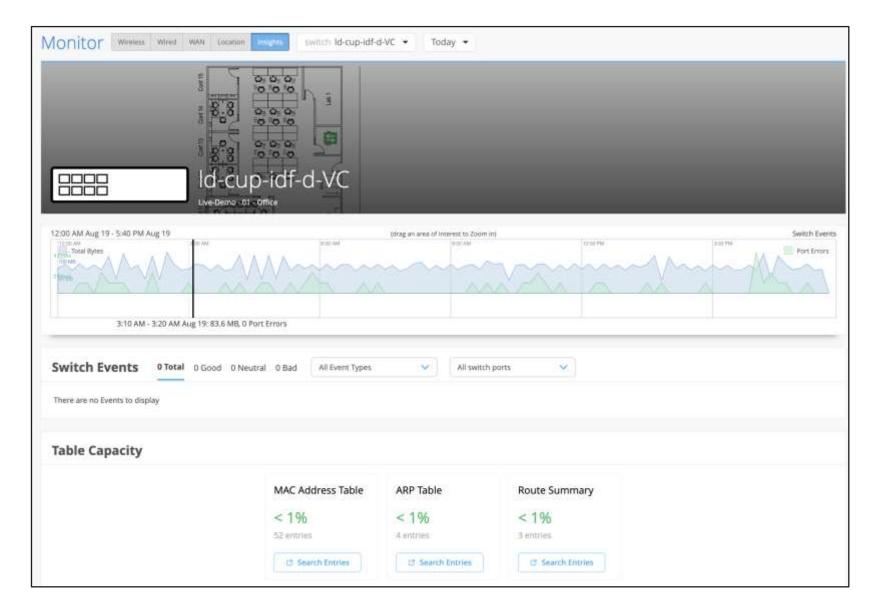
E.g.: University/Large Campus



E.g.: Hospital/Large Enterprise

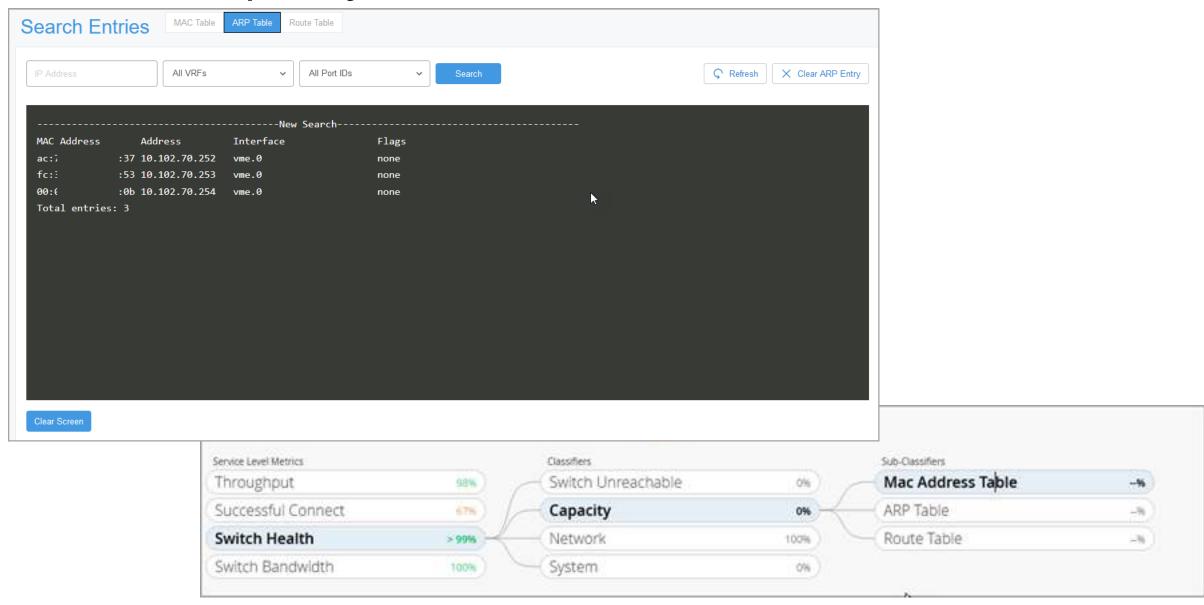


# **Switch Capacity**





# **Switch Capacity**



### **Bandwidth SLE**





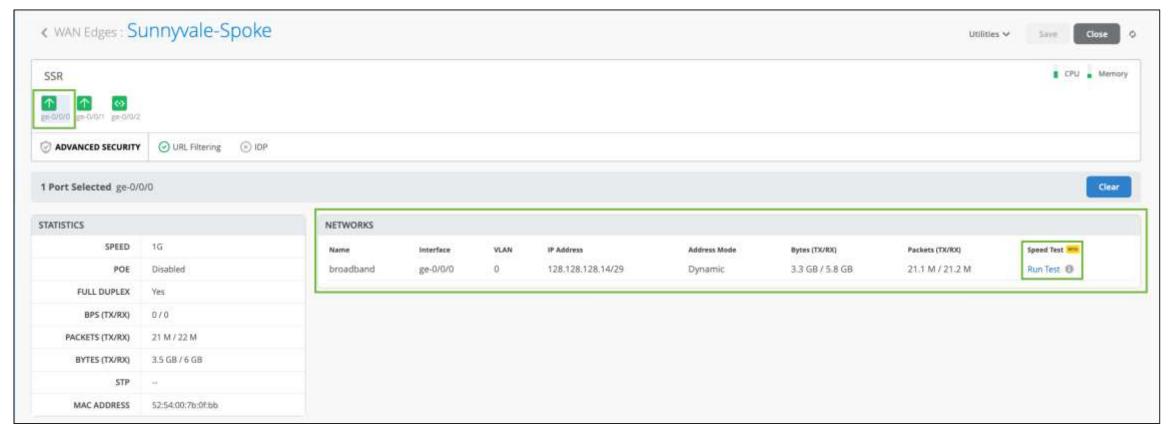


# Juniper Mist WAN Assurance (SD-WAN)

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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

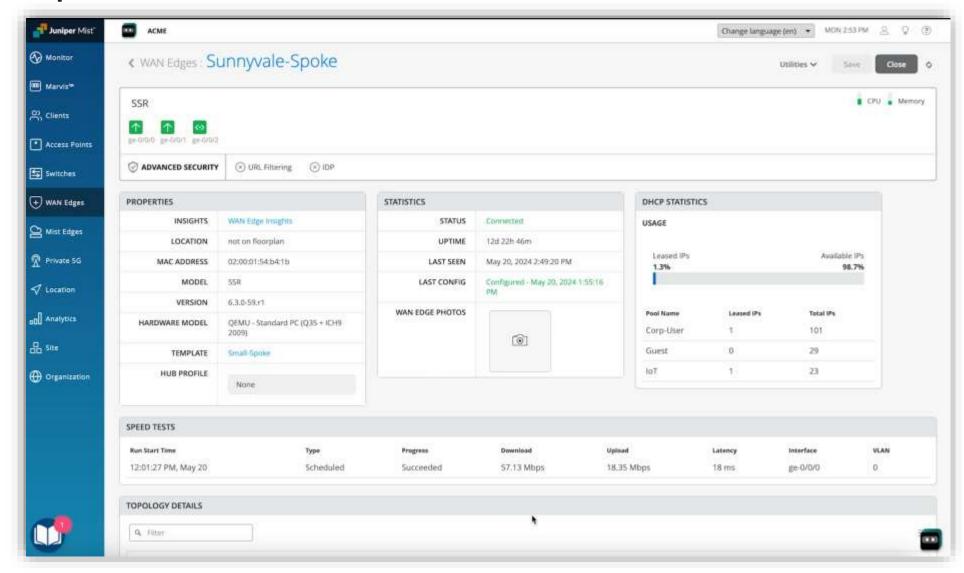
### **Scheduled Speed test**

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



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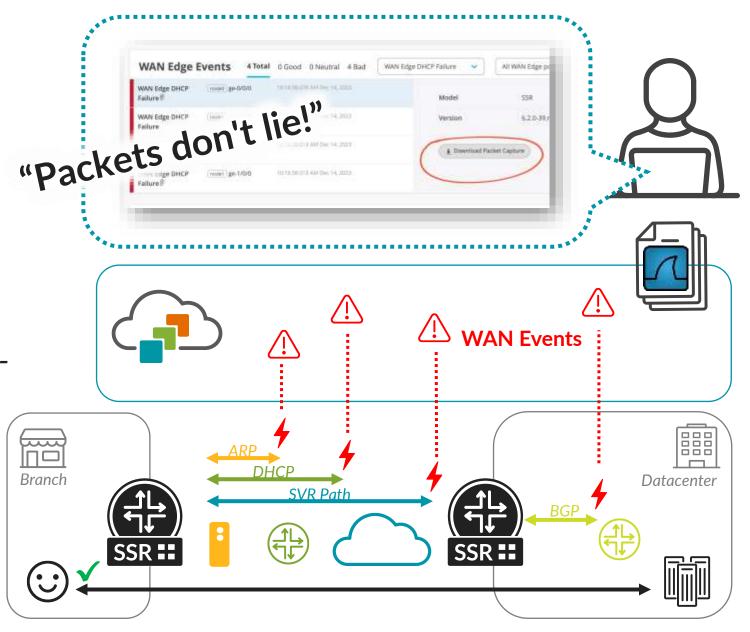
# WAN Speed Test Demo





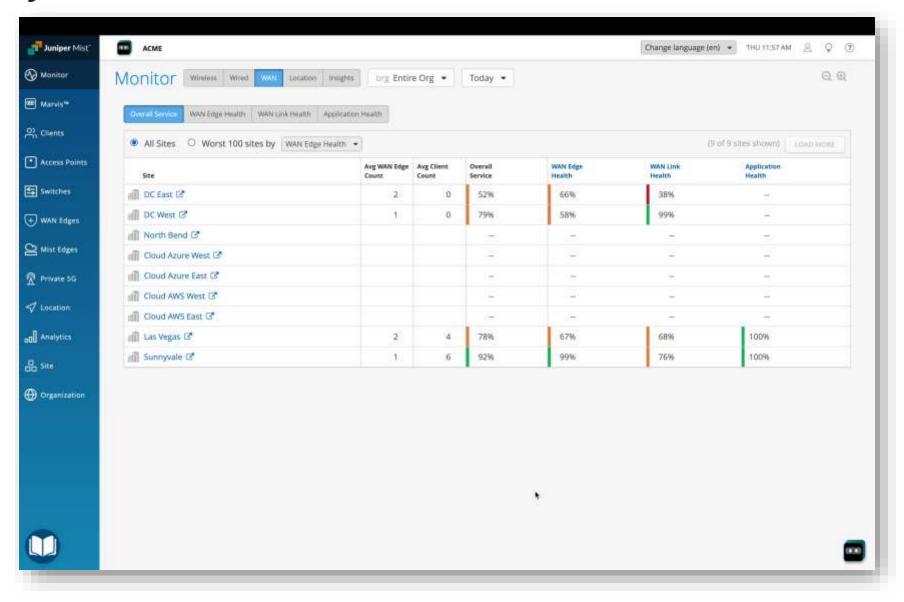
# WAN Dynamic PCAP

- 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-thewire proof



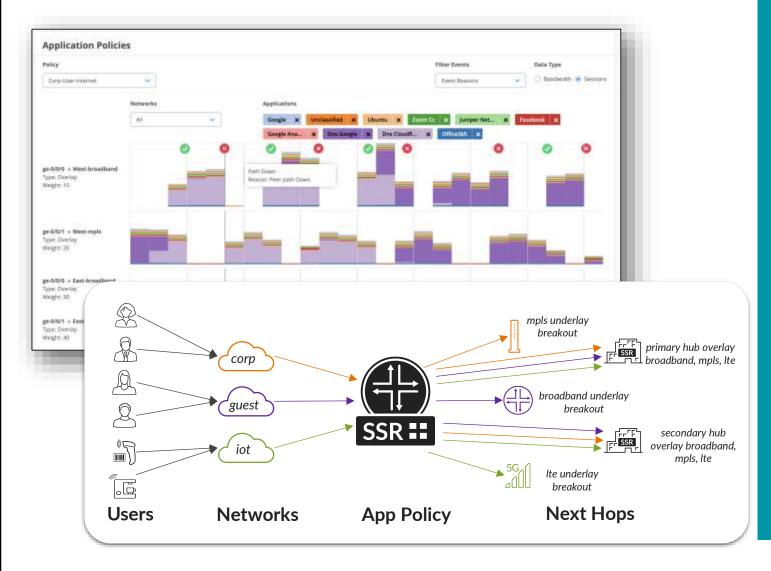


# WAN Dynamic PCAP Demo





# 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

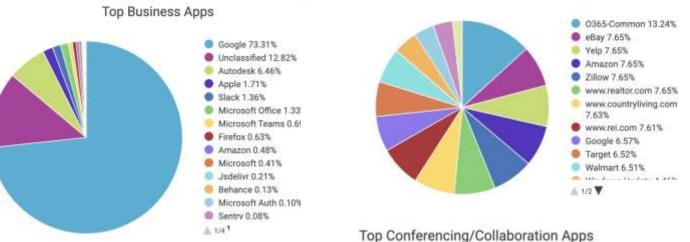
Top URL Blocked Events by Application

> Please click on the chart to view additional details

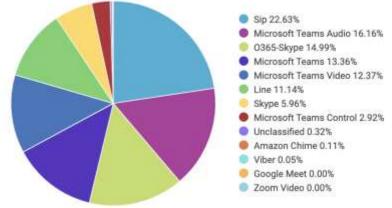


- ✓ Attack trends and summary
- ✓ Detailed IP source/dest info
- ✓ Scheduled delivery of PDF/CSV via email

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









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# Thank you

