



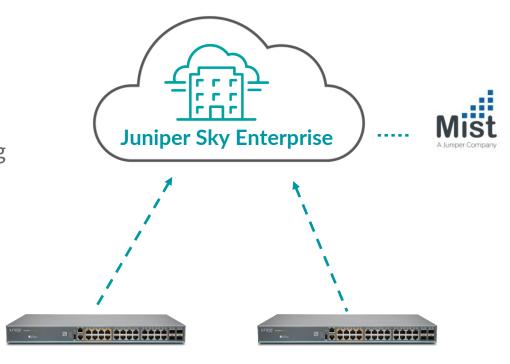
# AGENDA

- Sky Enterprise Overview
  - Demonstration
- New Features
  - Demonstration
- SD-WAN Update
  - Demonstration
- Coming soon
- Customer References
- Ordering Guide
- Q&A

#### POWERFUL CLOUD-BASED MANAGEMENT FOR JUNOS DEVICES

Juniper Sky Enterprise delivers centralized visibility and control from the cloud.

- No Junos experience needed
- SaaS delivered
- Simple deployment, no Professional Services required
- Intuitive UI for configuration, management and monitoring
- Zero Touch Provisioning
- Simple Mist WiFi API integration
- Supports EX, SRX, vSRX, QFX and NFX
- Multi-tenancy and role based access



#### SKY ENTERPRISE BUSINESS USE CASES

#### RETAIL

- Distributed enterprise, small HQ
- Single IT Admin, Low CAPEX/OPEX
- Secure router, 1-3 switches/site



#### SMALL TO MEDIUM ENTERPRISE

- < 500 employees
- Limited IT staff, Low CAPEX/OPEX
- 2x medium firewall, 5-30 switches/site



#### SLED (STATE, LOCAL, EDUCATION)

- K-12, local govt. offices
- 2x medium firewall, 30-40 switches/site



OPERATIONS COST SAVING

**SIMPLICITY** 

DAY-TO-DAY MANAGEMENT

EMPOWER TEAM OF GENERALISTS



#### SKY ENTERPRISE HAS 300 CUSTOMERS WORLDWIDE (AND GROWING) - THESE ARE SOME OF THEM



































NEW YORK STATE























ROC(ET

FIBER®











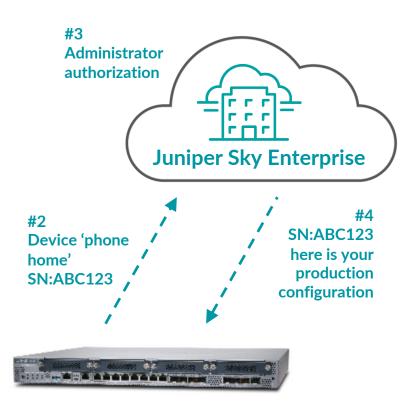


#### ZERO TOUCH PROVISIONING - HOW IT WORKS

# Devices shipping with ZTP-ready Junos:

- **EX** new!
- SRX
- NFX





#### **Zero Touch Provisioning**

'Phone Home' available in new Junos versions

Add serial number to Sky Enterprise and power on

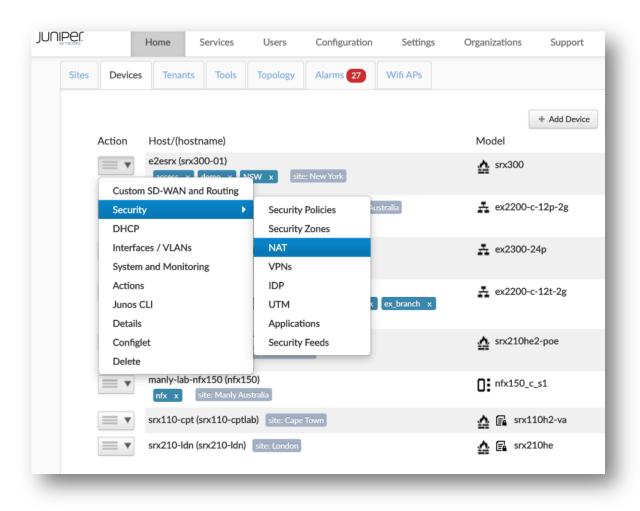
Device calls home, requests configuration

Speed up rollouts, reduce truck rolls

Slash deployment timeframes and costs



#### INTUITIVE USER INTERFACE

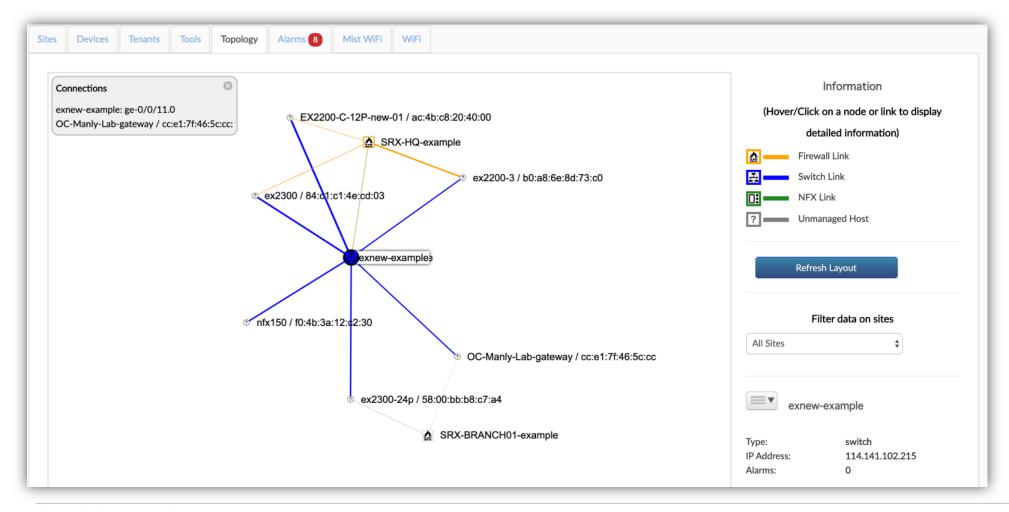


- Configure interfaces, security policies, NAT, zones, ranges and more
- View real-time performance graphs, detailed security reports
- Junos CLI from a browser
- Bulk updates, software upgrades
- View topology, sites map
- Configuration backup, commit audit
- App routing, per interface app reporting, real time monitoring and link failover



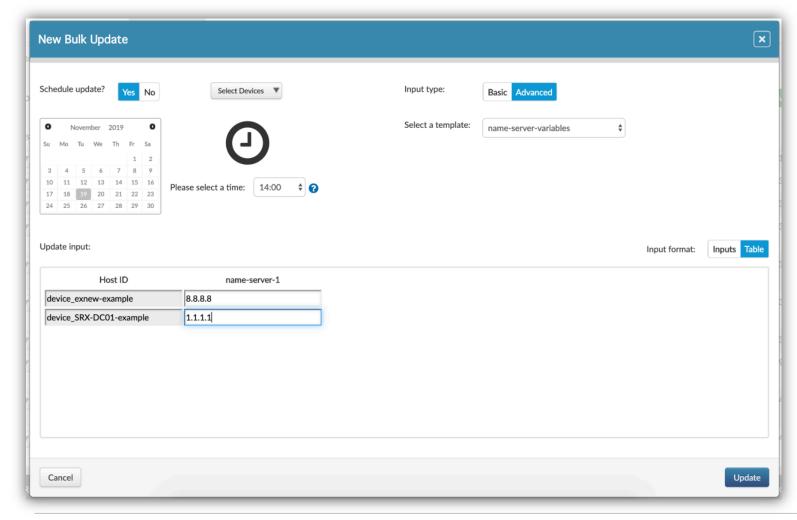
#### **REAL TIME TOPOLOGY VIEWS**

View real time topology maps, drill down into devices and interfaces, launch graph views.



#### **BULK UPDATES WITH TEMPLATES AND SCHEDULING**

Update one or many devices using bulk updates. Supports templates and scheduling.

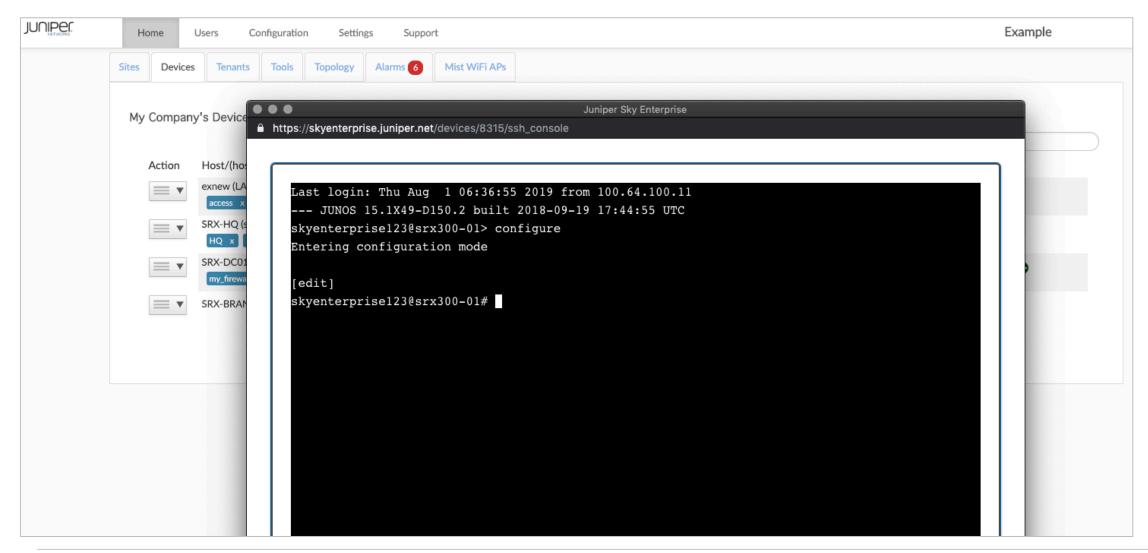


#### **DEMONSTRATION - OVERVIEW**

- Sites, Topology, Devices
- SRX Management and Monitoring
- EX Management and Monitoring
- Adding a Device: existing device
- Adding a Device: new device with ZTP
- Bulk Updates and Bulk Update Templates
- Commit confirm
- Multi-tenancy
- Mist Integration

# **NEW FEATURES**

#### NEW FEATURE – JUNOS CLI ACCESS CLI FROM ANYWHERE USING A BROWSER



#### **SRX GATEWAY CARD OPTIONS**

#### LTE mini-PIM Card



#### WiFi mini-PIM Card







#### **INTRODUCING 'BRANCH-IN-A-BOX'**

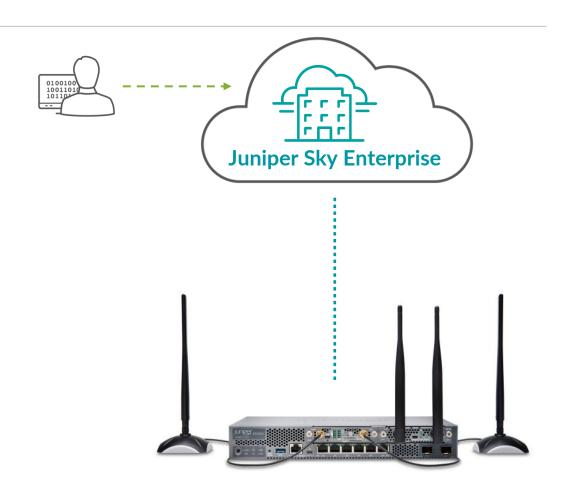
SRX +

WiFi mPIM +

LTE mPIM +

Sky Enterprise =

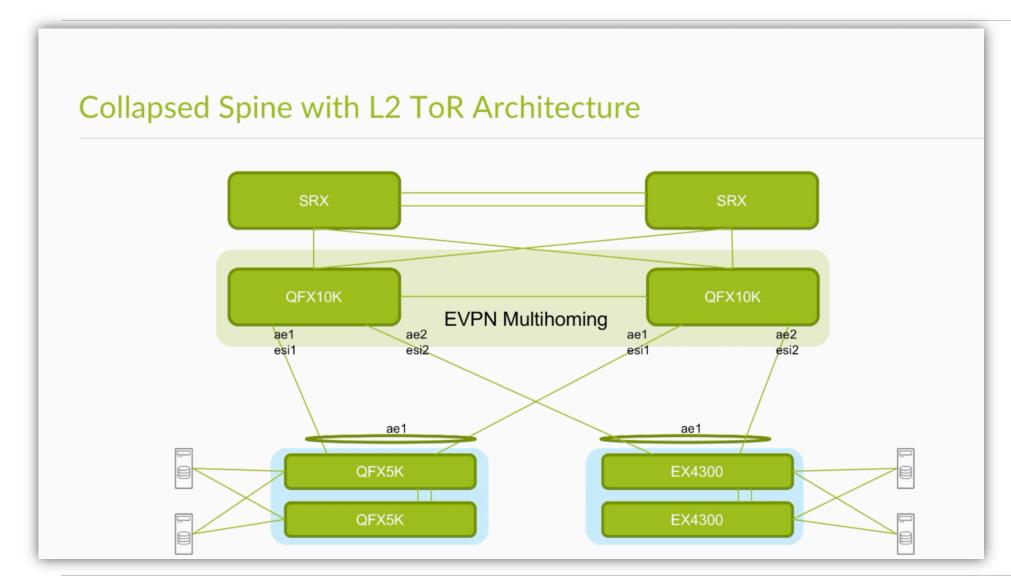
Branch-in-a-Box



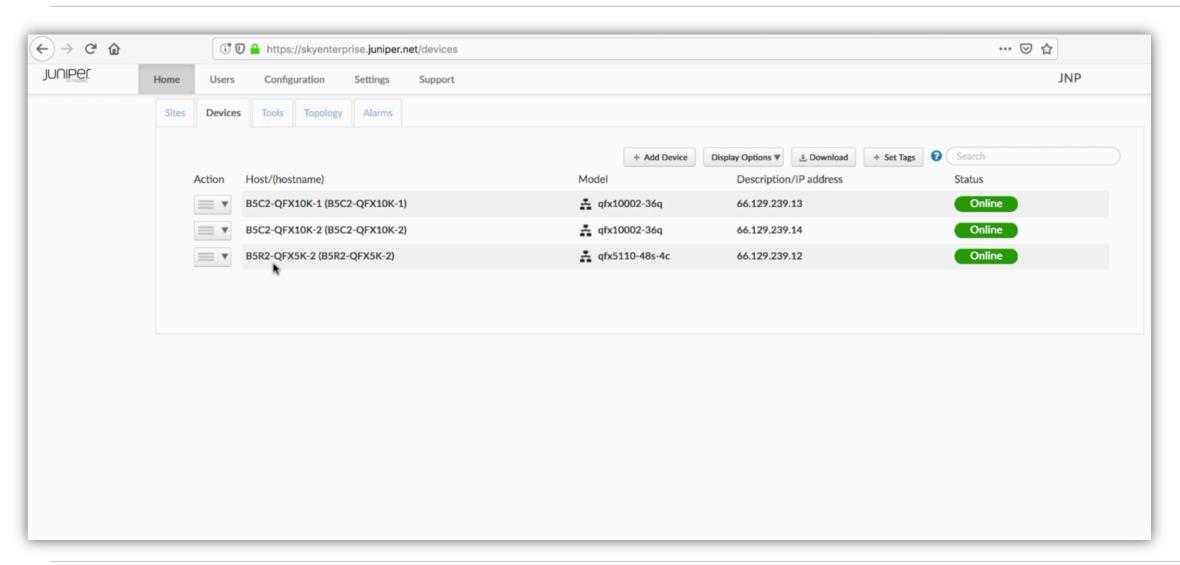
#### **DEMONSTRATION - NEW FEATURES**

- Junos CLI
- SRX WiFi

# Build data centers quickly with Sky Enterprise & QFX

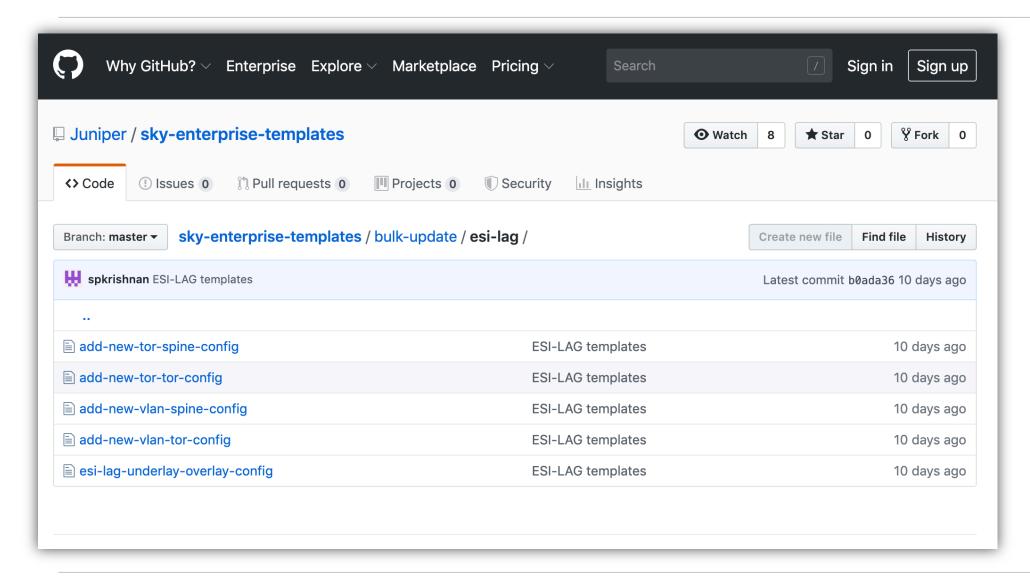


# Add QFX devices to Sky Enterprise in minutes



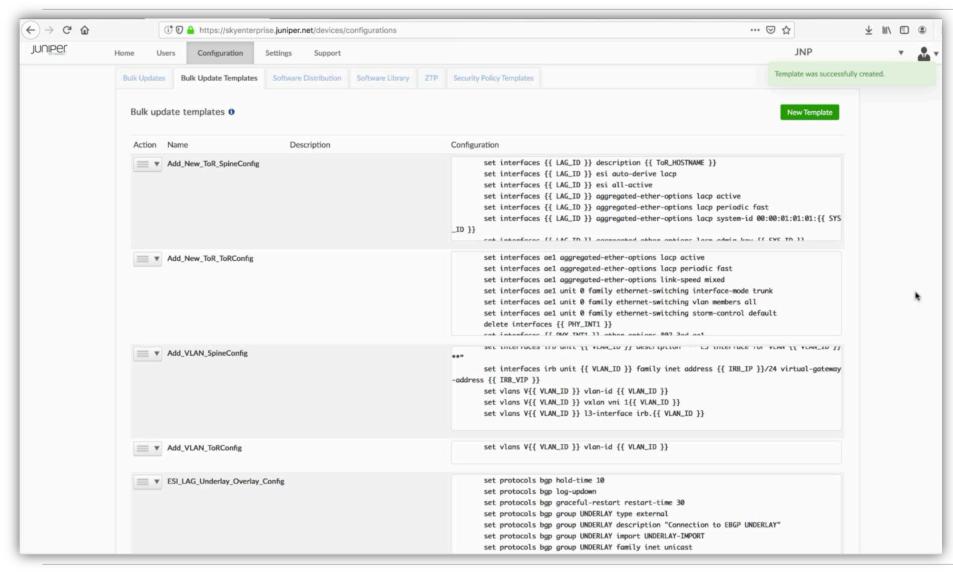


# GitHub Download ESI-LAG templates from GitHub



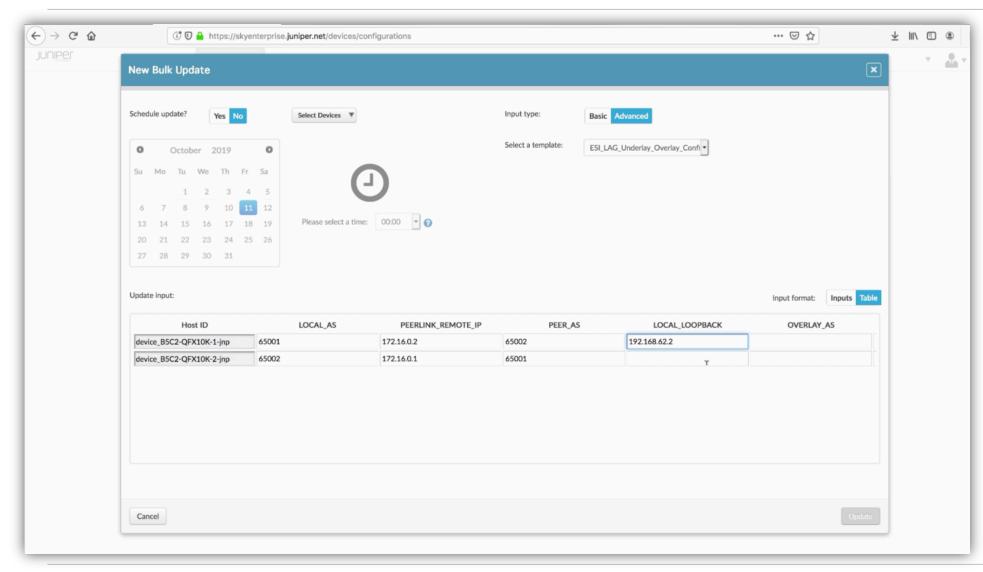


## Add templates to Sky Enterprise

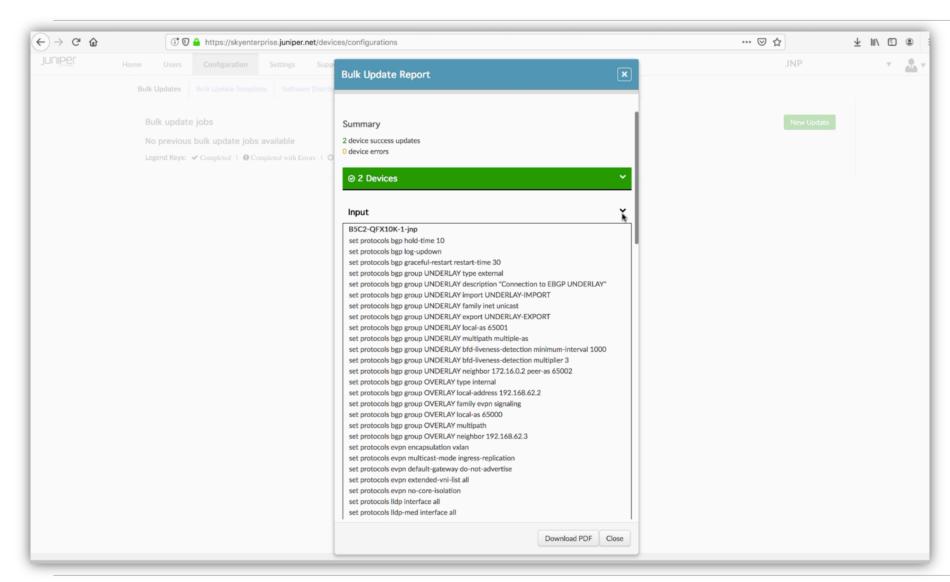




## Add devices and variables to template



## Configuration bulk update to devices



#### **DEMONSTRATION - NEW FEATURES**

- Small Data Center Deployment (video - <a href="https://www.youtube.com/watch?v=d244q2\_3-74">https://www.youtube.com/watch?v=d244q2\_3-74</a>)

# **CUSTOM SD-WAN**

#### CSO AND SKY ENTERPRISE: SD-WAN COMPETITIVE LANDSCAPE

#### Controllercentric **SD-WAN**

- central controller
- feature-rich
- highly scalable



**Named Accounts Large Commercial Local Government** 

**Broad Channel SMB** - Education (50-100 Sites)











**Sky Enterprise** SD-WAN









simple

low-cost

Infrastructure-

device-centric

centric SD-WAN

#### 'CUSTOM SD-WAN' - BUILD, MANAGE AND MONITOR

#### **Custom SD WAN requirements:**

- SRX running Junos 15.1 D110 or newer
- AppID licensed and installed
- Sky Enterprise Syslog Collection to be enabled

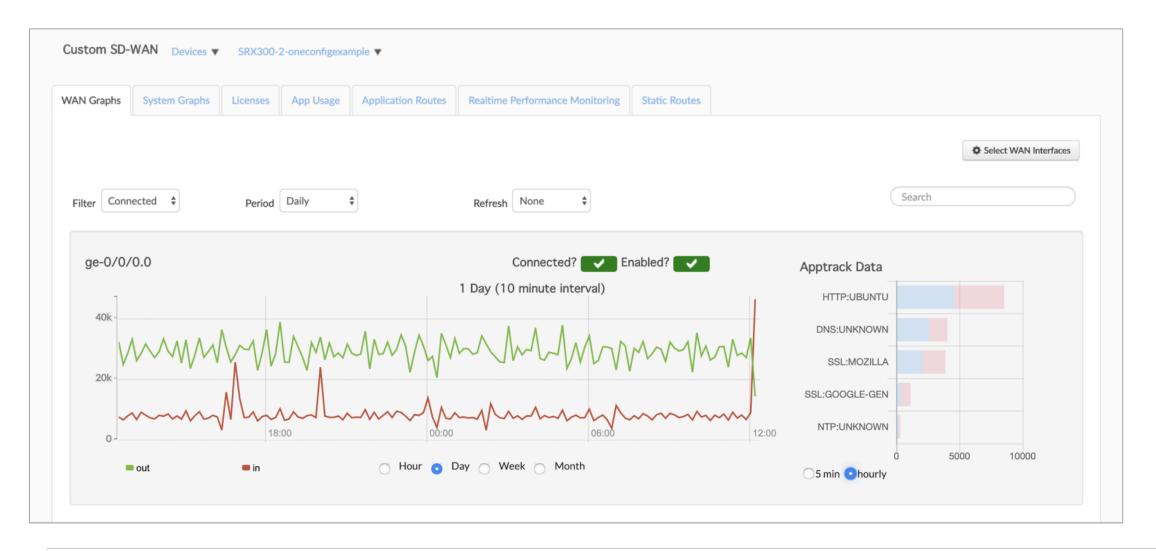
Custom SD WAN also requires some advanced configuration of the SRX for Application Identification and Routing Instances. This can be done using predefined Bulk Update templates within Sky Enterprise (see also Github repository).

Sky Enterprise then provides an interface for Management and Visibility of:

- Application Routing with Advanced Policy Based Routing
- Real Time Performance Monitoring with IP Monitoring and Link Failover
- Static Routes
- Per Interface Application Usage reporting



#### NEW FEATURE – 'CUSTOM SD-WAN' HYBRID WAN - BUILD, MANAGE AND MONITOR



#### **DEMONSTRATION - CUSTOM SD-WAN**

- Application Identification and Routing Instances configuration using templates
- Enabling Syslog on devices
- Per interface Application reporting
- AppID license Management
- Application Routing
- Real Time Performance Monitoring with Link Failover

# **COMING SOON**

# 'SIMPLE SD-WAN' COMING SOON INFRASTRUCTURE-CENTRIC HYBRID WAN FOR SMES

#### **FACTORY STATE SRX**



- EZ-ZTP plug in and turn on
- Device online and managed by Sky Enterprise

#### **WORKFLOW**



#### Admin adds:

- New Branch site
- LAN details
- WAN details
- Application routing

#### DEPLOYED



#### Sky Enterprise:

- Installs AppID licenses and DB
- Deploys configuration
- Creates VPN
- SRX operational as WAN Node

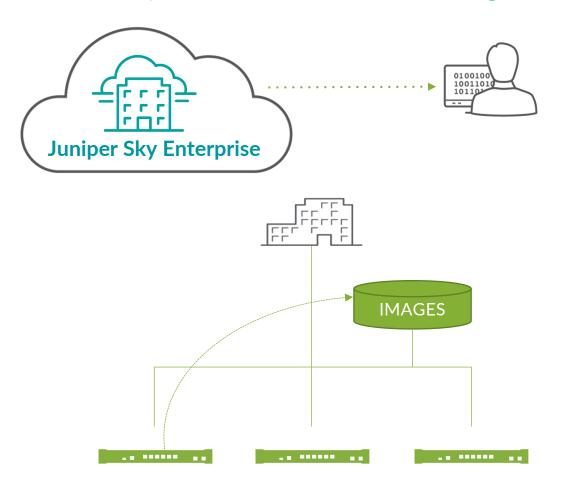
#### **REPORTING/MGMT**



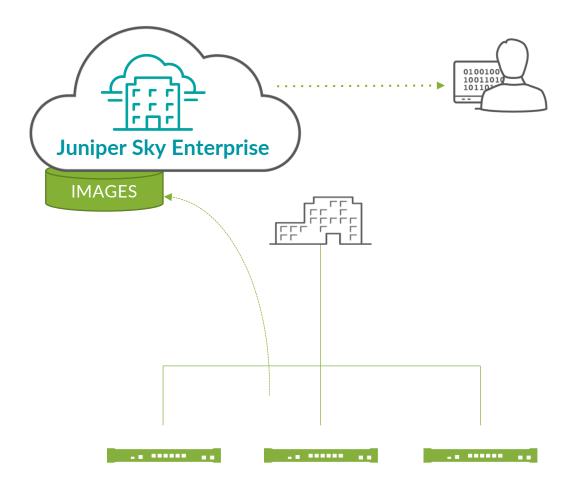
- View branch on Google Maps
- Monitor link status and failover
- Per interface application performance reports

#### **CLOUD HOSTED IMAGES FOR SOFTWARE UPDATES**

#### Today - customer hosted images



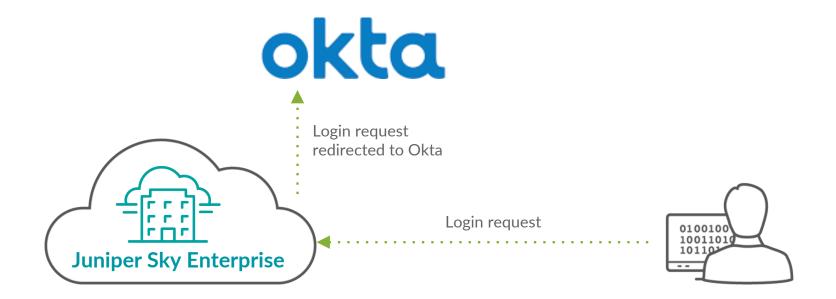
#### 1Q 2020 - Juniper hosted images



#### **OKTA INTEGRATION**

Sky Enterprise is adding Identity Provider Single Sign On (SSO) capability, driven by customer demand.

This is the initial support for SSO vendor, others will be added later on based on demand.



# REFERENCES USE CASES

#### CASE STUDY - BIG BEAR LAKE

#### **SME**

#### **Customer Profile**

Industry: Recreation / Ski Resort

Territory: California

Sites: 1, Devices: 10

#### **Technology Solution**

- Cloud-managed wired and wireless
- Juniper Sky Enterprise
- Aerohive access points
- EX2300 Ethernet Switches
- SRX340 Services Gateways

#### **Business Challenges**

- Remote alpine location
- Cell and landline systems unreliable
- Visitors expect "big city" connectivity
- Desire to modernise management practices

#### **Business Results**

- Simplified collaboration to grow tourism
- Improved network performance and reliability
- Network management quick and easy
- Strengthened security controls



# "We wanted to go where everyone is going, and that is the cloud ..."

-- Matt McCabe, Manager, Big Bear Visitor Center



#### **CASE STUDY - AUXIOM**

#### **Managed Services (Tier 2)**

#### **Customer Profile**

Industry: Business IT Services

Territory: Michigan

• Devices: 175

#### **Business Challenges**

- Multiple customer networks
- Large geographic area
- No centralized management platform
- Reliable remote access

### Auxiom

#### **Technology Solution**

- Sky Enterprise with Multi-tenancy
- Juniper EX Switches
- Juniper SRX Gateways

#### **Business Results**

- No in-house management systems
- Connect to devices in any location
- Manage overlapping address spaces
- Intuitive portal no Junos skills required



# "Juniper Sky Enterprise ensures we have centralized control and visibility of our clients' networks."

-- Matt Opificius, Professional Services Manager, Auxiom



#### **CASE STUDY - WESTELCOM**

#### **Managed Services (Tier 2)**

#### **Customer Profile**

- Industry: Business IT Services
- Territory: Northern New York
- Devices: ~50

#### **Business Challenges**

- Multiple customer networks
- Large geographic area
- Provide SD-WAN services
- Reliable remote access

#### **Technology Solution**

- Sky Enterprise
- Multi-tenancy and Custom SD-WAN
- Juniper EX Switches
- Juniper SRX Gateways

#### **Business Results**

- Simplified network management
- Connect to devices in any location
- Improve customer service
- Intuitive portal no Junos skills required



#### CASE STUDY - WESTELCOM

Juniper's secure, flexible SD-WAN solution enables us to offer secondary broadband connections for resiliency, enhance our managed security services, and deliver services with greater agility."

- Seth Crimmins, vice president of operations, Westelcom.



# ORDERING GUIDE AND TRIAL ACCOUNTS

#### SKY ENTERPRISE SUBSCRIPTIONS

SMALL DEVICE (GROUP A)	MEDIUM DEVICE (GROUP B)	LARGE DEVICE (GROUP C)
EX & QFX SWITCHES		
EX2200 Series	EX4200 Series	EX4550
EX2300 Series	EX4300 Series	EX4600 Series
EX3300 Series		EX9200 Series
EX3400 Series		QFX Series
SRX FIREWALLS		
SRX100/110/210/220	SRX240	SRX650
SRX300/320	SRX340/345	SRX1500
vSRX	SRX550/550M	SRX4100/4200
		SRX5400/5600/5800
NFX NETWORK SERVICES PLATFORM		
NFX150-C	NFX150	
	NFX250	

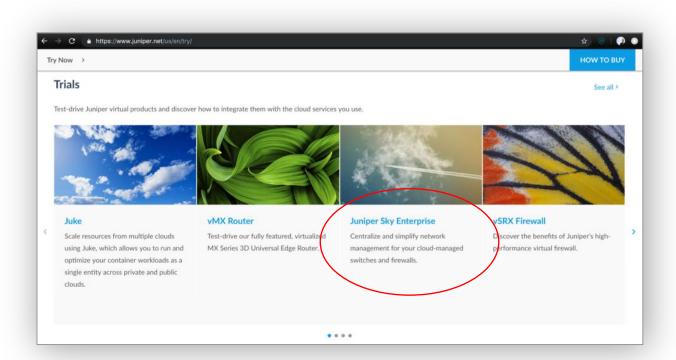
#### SKY ENTERPRISE SUBSCRIPTION PRICING

SMALL DEVICE (GROUP A)	MEDIUM DEVICE (GROUP B)	LARGE DEVICE (GROUP C)
SKY-ENT-GROUPA-1YR (\$100) SKY-ENT-GROUPA-3YR (\$200) SKY-ENT-GROUPA-5YR (\$300)	SKY-ENT-GROUPB-1YR (\$400) SKY-ENT-GROUPB-3YR (\$800) SKY-ENT-GROUPB-5YR (\$1,200)	SKY-ENT-GROUPC-1YR (\$1,000) SKY-ENT-GROUPC-3YR (\$2,000) SKY-ENT-GROUPC-5YR (\$3,000)
EX & QFX SWITCHES		
Group A Reduced		
SRX FIRE By 50%		
NFX NETWORK SERVICES PLATFORM		

#### FREE TRIAL

#### **Customer and Partner Trial Accounts**

# Complete the form at: juniper.net/try



#### **Juniper SE Demo Accounts**

Email your request to: skyent-trial@juniper.net





