

WHAT'S NEW FROM JUNIPER?

IT security seminar "Stallion 071112", Tallinn

Jukka Piirainen

Channel Manager

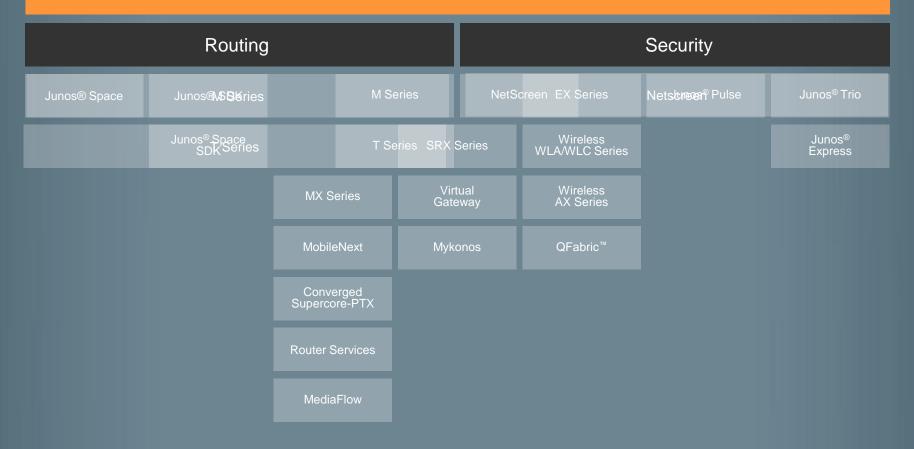
PURE PLAY IN HIGH-PERFORMANCE NETWORKING

First 10 Years Of Juniper: 1996-2006

Routing	Security
M Series	NetScreen
T Series	

PURE PLAY IN HIGH-PERFORMANCE NETWORKING

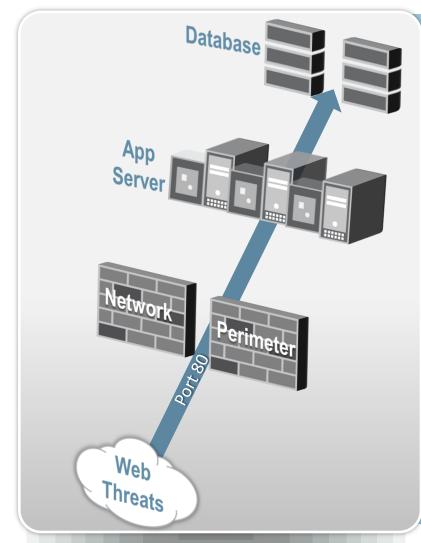
The Last 5 Years: 2007-2012





MYKONOS

INCONVENIENT STATISTICS



70% of ALL threats are at the Web application layer

73% of organizations have been hacked in the past two years through insecure Web apps Ponemon Institute



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THE MYKONOS ADVANTAGE DECEPTION-BASED SECURITY







RESPOND AND DECEIVE

Mykonos Responses	Human Hacker	Botnet	Targeted Scan	IP Scan	Scripts &Tools Exploits
Warn attacker	•				
Block user	•	•	•	•	•
Force CAPTCHA	•	•	۲	•	•
Slow connection	•	•	•	•	•
Simulate broken application	•	•	۲	٠	•
Force log-out	۲	•			•

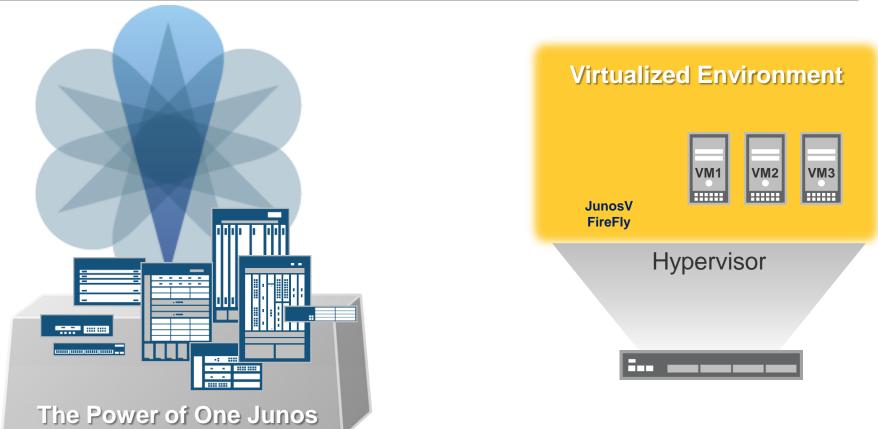
All responses are available for any type of threat. Highlighted responses are most appropriate for each type of threat.





VIRTUALIZED SRX

Virtual SRX – JunosV FireFly

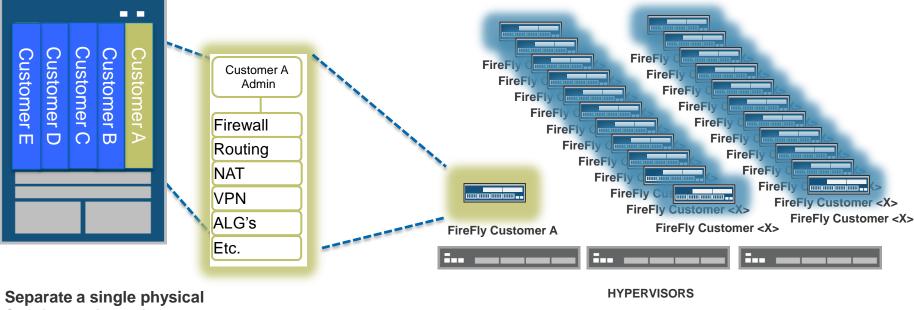


Juniper is delivering its industry-leading Junos OS as a software appliance for deployment in virtualized environments

SRX VIRTUALIZATION EXAMPLES

Using x86 virtualization for unlimited, dynamic, private firewall scaling

Option 1 (SRX & LSYS)



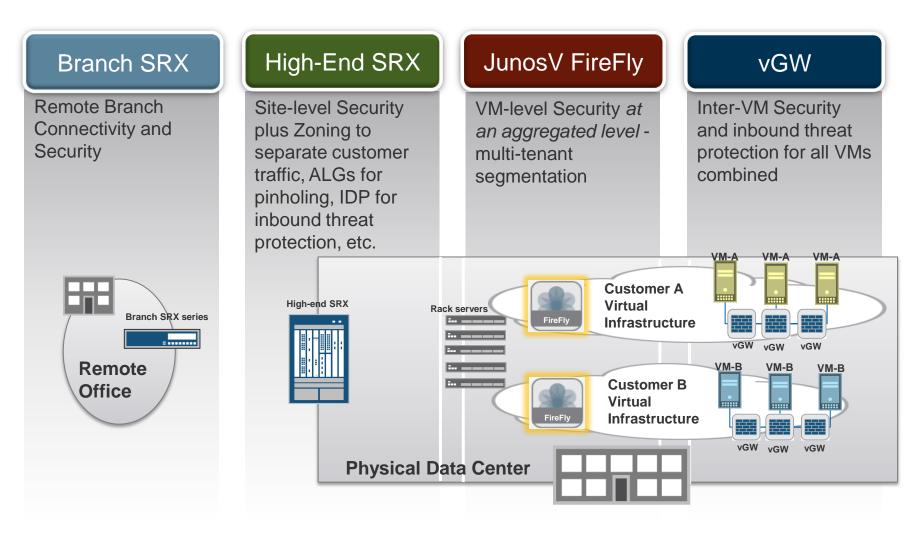
Option 2 (Hypervisors & FireFly)

Separate a single physical SRX into unique virtual instances on the device (Difficult beyond hundreds)

Leverage x86 Hypervisors (KVM, VMware) to build unlimited pools of FireFly's!



Positioning At A Glance





SWITCHING

NEW EX4550

INTRODUCING EX4550 WITH VIRTUAL CHASSIS TECHNOLOGY

1U 32-port 1/10GbE Switch

- Wire-rate performance on all ports
- 2 expansion slots
- 8x1/10GbE SFP/SFP+, 128 Gbps Virtual Chassis module
- 1/10BASE-T module
- 2x40G QSFP+ module ①
- ~2us Latency
- Front-back and back-front airflow
- SFP+ version is MACSec capable

Virtual Chassis Technology

- 256 Gbps virtual backplane (up to 320 Gbps with 40GbE module ⊕)
- Manage up to 10 as a single device
- Extend over 10GbE uplinks (40GbE ^(B))
- Virtual Chassis with EX4200 & EX4500

Software Parity with 12.1

- MPLS (L2VPN, L3VPN)
- RE-SDK 🕒

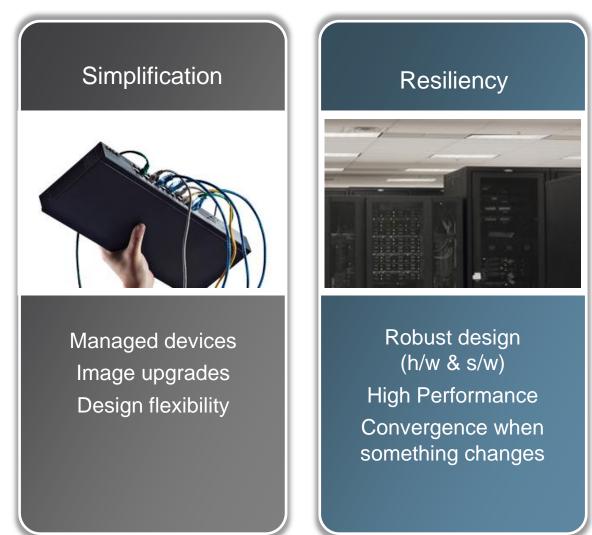
Post FRS





EX VIRTUAL CHASSIS ENHANCEMENTS

VIRTUAL CHASSIS IS BETTER BECAUSE..

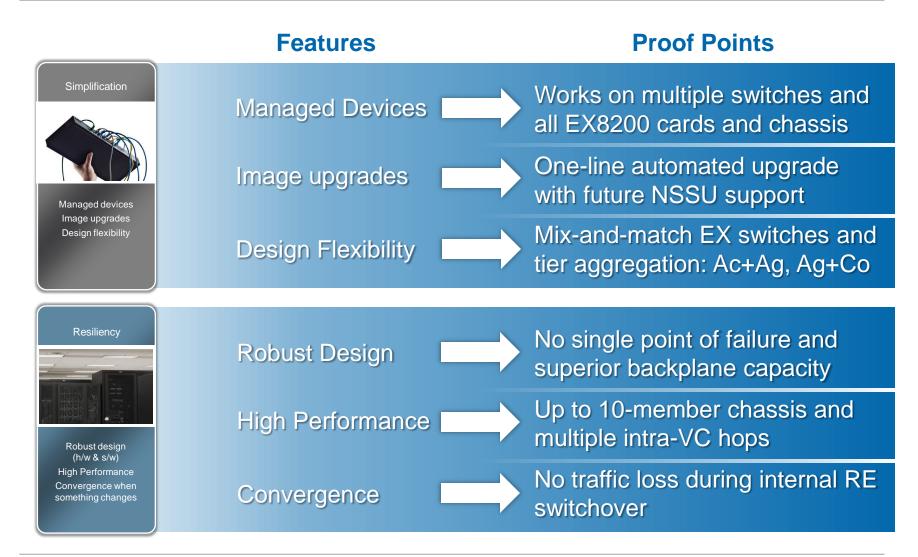


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KEY DIFFERENTIATING FEATURES OF VIRTUAL CHASSIS





EX SERIES VIRTUAL CHASSIS ENHANCEMENTS



Carrier-Class Reliability

Integrated Security

Operational Simplicity



EX2200 LINE OF ETHERNET SWITCHES - VIRTUAL CHASSIS LITE

12-24-48 port access switch

- PoE/PoE+ model options
- Fixed power supply and fans
- 4 SFP uplinks
- Available in compact, fanless models

L2 and RIP in base license; OSPF, PIM in enhanced license

Virtual Chassis Lite

- 4-members
- GbE backplane using fiber uplinks

New

 Requires Enhanced Feature License (EFL)

Redundant power system for 24-48 port SKUs

Flexible deployment options with compact model (rack, wall, magnet mounting)



_	# Ports	Port Type	PoE+ Ports	Fixed Uplinks	Max Power Consumption (PoE Power)
	12	10/100/1000B-T	0	2DP	50 (0)W
	12	10/100/1000B-T	12	2DP	150 (100)W
	24	10/100/1000B-T	0	4 SFP	50 (0) W
	24	10/100/1000B-T	24	4 SFP	550 (405) W
	48	10/100/1000B-T	0	4 SFP	100 (0) W
	48	10/100/1000B-T	48	4SFP	550 (405) W



EX3300 LINE OF ETHERNET SWITCHES – 10 MEMBER VIRTUAL CHASSIS

24-48 port fixed-configuration access switch

- PoE+ model option
- 4 SFP/SFP+ uplinks
- Fixed power supply (AC/DC) and fans
- Data center airflow
- RPS support

Virtual Chassis technology

- 10-member Virtual Chassis
- Virtual Chassis over 10GbE uplinks
- Virtual Chassis between switches up to 80km apart

Proven Juniper technology

- Junos operating system
- Layer 3 (OSPF, PIM)[⊕]



SKU	Description
EX3300-24T	24 port 10/100/1000 BASE-T Ethernet Switch
EX3300-48T	48 port 10/100/1000 BASE-T Ethernet Switch
EX3300-24P	24 port 10/100/1000 BASE-T POE Ethernet Switch
EX3300-48P	48 port 10/100/1000 PoE BASE-T Ethernet Switch
EX3300-24T-DC	24 port 10/100/1000 BASE-T Ethernet Switch with DC Power
EX3300-48T-BF	48 port 10/100/1000 BASE-T Ethernet Switch Back to Front Airflow



New



EX4200 LINE OF ETHERNET SWITCHES WITH VIRTUAL CHASSIS TECHNOLOGY

24-48 port copper/fiber access switch

- PoE+ model option
- 4-port GbE (SFP) uplink
- 2-port 10GbE (XFP) uplink
- Dual-mode 4-port GbE/2-port 10GbE (SFP+)

Fully redundant power and cooling

Virtual Chassis technology

- 128 Gbps virtual backplane
- Manage up to 10 switches as a single device
- Extend over 10GbE or GbE uplinks

Full OSPF and IP Multicast

in base license

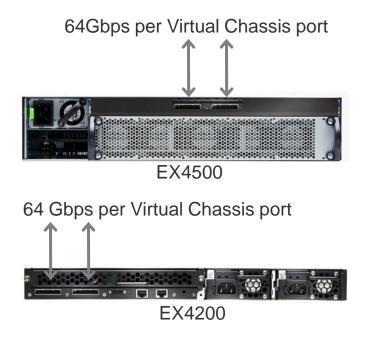
Easy manageability—LCD



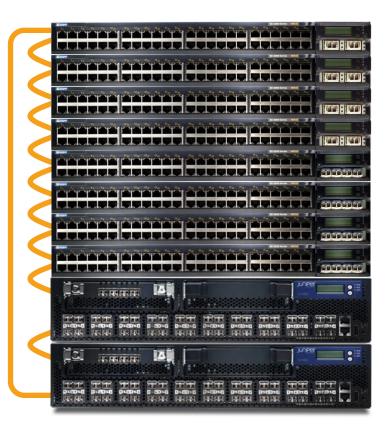
SKU	# Ports	PoE Ports	PoE+ Ports	PoE Power Budget
EX4200-24T	24	8	0	130 W
EX4200-24F	24	N/A	0	0 W
EX4200-48T	48	8	0	130 W
EX4200-24PX	24	24	24	740 W
EX4200-48PX	48	48	48	740 W



EX4200 & EX45xx VIRTUAL CHASSIS



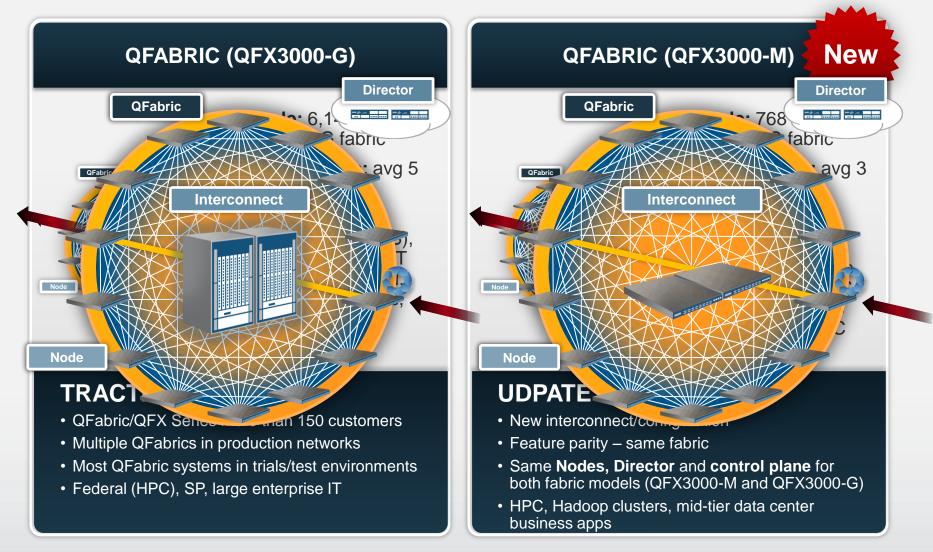
- EX4200 and EX45xx Virtual Chassis
- Up to 10 EX4200 or EX45xx
- Up to 480 GbE ports
- Up to 112 10GbE ports
- Backplane: 128 Gbps





QFABRIC

QTFAEBRICC: SECALLING SINGLE SIMITICH MODDEL RICHBRICGER & MITCH MODDEL





WIRELESS

JUNIPER INNOVATES FOR A BETTER WIFI EXPERIENCE

Differentiating WLAN Inventions:

Automated Radio Frequency Management

Ensures optimal WiFi performance with highest throughput

Proactive Spectrum Analysis

Identifies sources of interference

Simplified Mobile Device Provisioning

Easy on-boarding of BYOD

Intelligent Switching Architecture

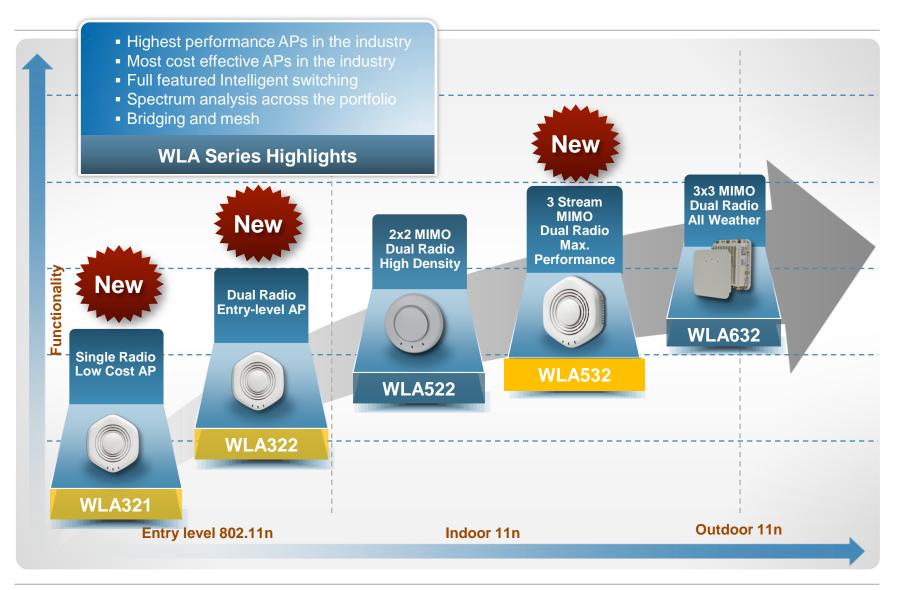
Optimizes traffic flow based on applications

Virtualized Controller Clustering

Resilient, non-stop enterprise



JUNIPER WLA SERIES ACCESS POINT FAMILY





JUNIPER WLA SERIES FLAGSHIP ACCESS POINT WLA532 INDOOR 802.11N AP

3 Industry Bests

- Highest Performance AP
- Lowest Power Consumption AP
- Smallest Form Factor AP

Mandate this technology in RFP

450Mbps data rate (3x3, 3 spatial stream)

What to know

- Juniper designed Access Point
- •Juniper WLAN is 15-20% less expensive when comparing complete BOMs
- Juniper WLA 532 outperforms Cisco and Aruba by up to 35% as validated by Novarum







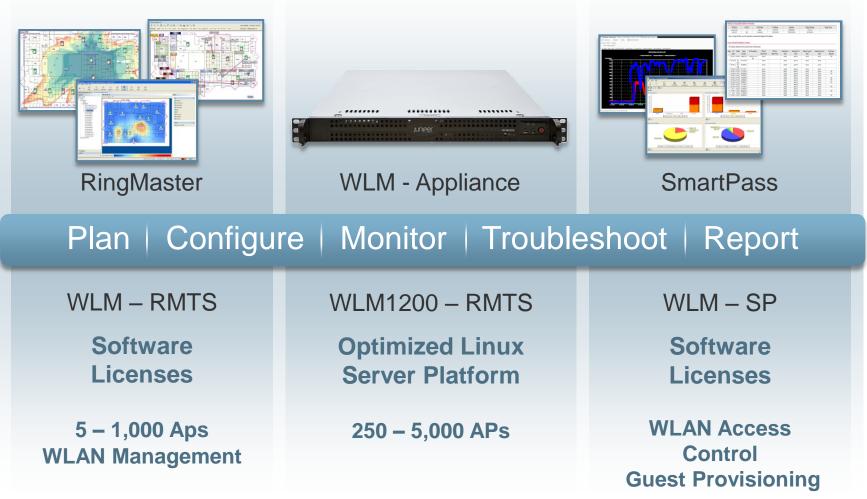
JUNIPER WLC SERIES CONTROLLER FAMILY





WIRELESS MANAGEMENT & ACCESS CONTROL

WLM – Management and Access Control





ROUTING

FROM J-SERIES TO SRX

J-Series	SRX	Performance	Benefits
J2320	SRX240	+250% Forwarding Performance	Improved forwarding performance, switching, POE, zone- based firewall/VPN, Full UTM including IPS (IDP) & ExpressAV; Hardware Content Security Acceleration (CSA), 4 mPIM slots (T1/E1, xDSL, serial, Ethernet); 2G Memory
J2350	SRX240	+ 200 % Forwarding Performance	Improved forwarding performance, switching, POE, zone- based firewall/VPN, Full UTM including IPS (IDP) & ExpressAV; Hardware Content Security Acceleration (CSA), 4 mPIM slots (T1/E1, xDSL, serial, Ethernet); 2G Memory
J4350	SRX550	+ 400% Forwarding Performance	Improved forwarding performance, switching, POE, zone- based firewall/VPN, Full UTM including IPS (IDP) & ExpressAV; Hardware Content Security Acceleration (CSA), 10 GE ports; 2 mPIM and 6 GPIM/XPIM slots (4xT1/E1, xDSL, serial, DS3/E3, SFP and 10GE Ethernet)
J6350	SRX550	+ 228% Forwarding Performance	Improved forwarding performance, switching, POE, zone- based firewall/VPN, Full UTM including IPS (IDP) & ExpressAV; Hardware Content Security Acceleration (CSA), 10 GE ports; 2 mini-PIM and 6 GPIM/XPIM slots (4xT1/E1, xDSL, serial, DS3/E3, SFP and 10GE Ethernet)



ACX UNIVERSAL ACCESS ROUTERS





ACX Series

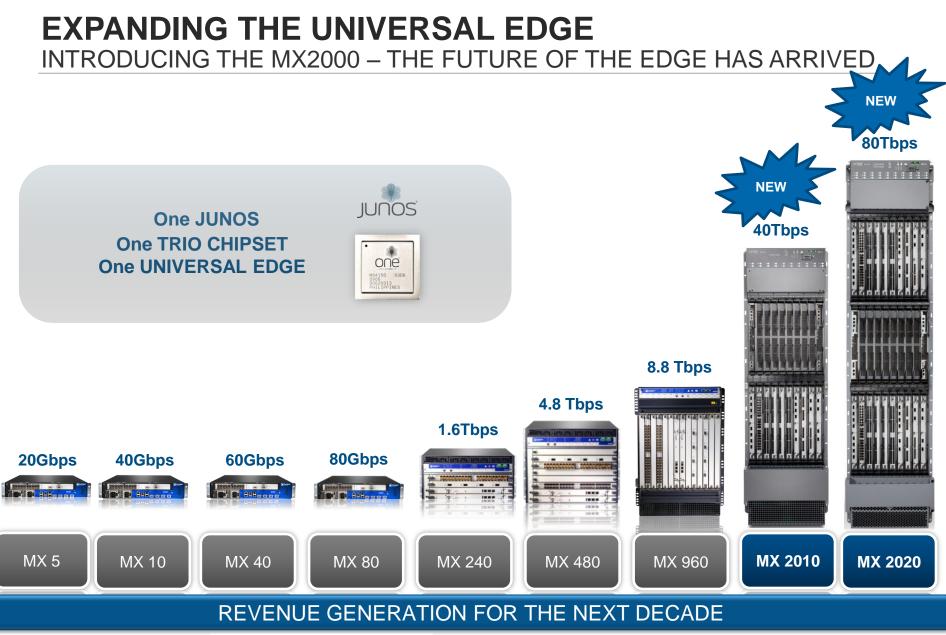
- Juniper's Universal Access solution for mobile backhaul (LTE, 2G/3G), business Ethernet services and residential broadband
- Complements Universal Edge
- Fixed and modular platforms all running Junos

THE NEW BENCHMARK FOR ACCESS NETWORKS

- 3x capacity of nearest competitor
- Seamless MPLS provides most flexible service architecture (1)
- Integrated precision timing for highest QoE (1588, SyncE)
- Extensive end-to-end network monitoring: Latency, jitter, OAM
- Hardened fan-less design with 65w Power over Ethernet (PoE+)
- Open system for innovation and extensibility

(1) Basic Ethernet connectivity also supported





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everywhere