Juniper Networks

INVESTOR RELATIONS

December 2020



Engineering Simplicity

Forward Looking Statements

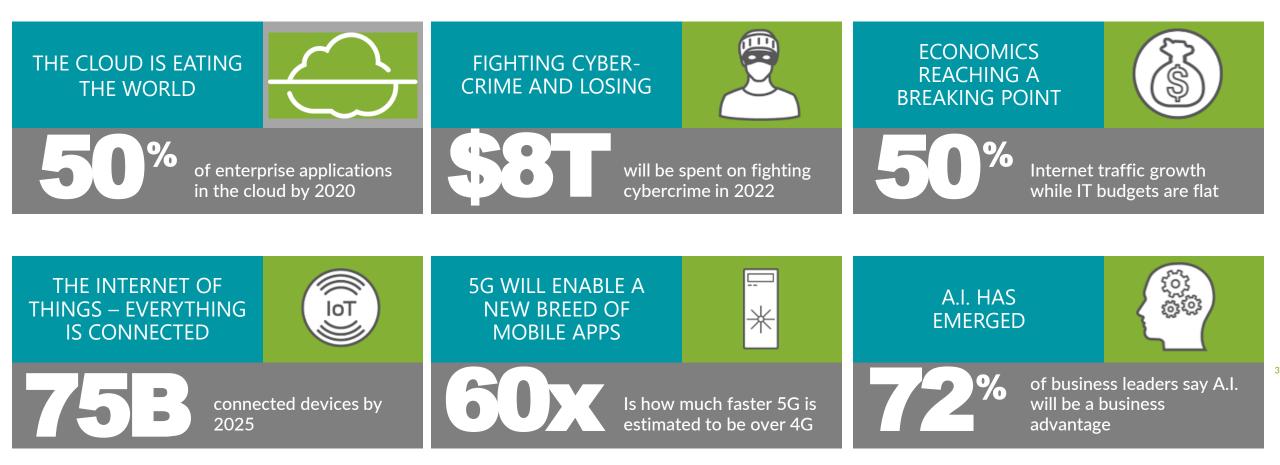
Statements in this presentation concerning the market landscape and Juniper Networks' business outlook; economic and market outlook; future financial and operating results; the expected impact of architectural transitions and timing of deployments with large customers; execution of our capital return program; expectations with respect to market trends; our future strategy; strength of certain customer segments; ability to expand business opportunities, including in hyperscale-switching and 5G buildouts; expectations with respect to growth; introduction of future products; focus on cost improvements; the strength of our solution portfolio and strategy; our ability to improve profitability and make necessary investments; and overall future prospects are forward-looking statements within the meaning of the Private Securities Litigation Reform Act that involve a number of uncertainties and risks. Actual results or events could differ materially from those anticipated in those forward-looking statements as a result of several factors, including: general economic and political conditions globally or regionally; business and economic conditions in the networking industry; changes in overall technology spending by our customers; the network capacity requirements of our customers and, in particular, cloud and communication service providers; contractual terms that may result in the deferral of revenue; the timing of orders and their fulfillment; manufacturing and supply chain constraints, changes or disruptions; availability of product components; delays in scheduled product availability; adoption of regulations or standards affecting Juniper Networks products, services or the networking industry; the impact of potential import tariffs; and other factors listed in Juniper Networks' most recent report on Form 10-Q and 10-K filed with the Securities and Exchange Commission. All statements made in this presentation are made only as of the date of this presentation. Juniper Networks undertakes no obligation to update the in

Use of Non-GAAP Financial Measures

This presentation references non-GAAP financial measures, including (without limitation) those related to diluted earnings per share and free cash flow. For important commentary on why Juniper Networks considers non-GAAP information a useful view of the company's financial results and for reconciliations of these measures to GAAP financial measures, please refer to the "Investor Relations" section of our website at http://investor.juniper.net. With respect to future financial guidance provided on a non-GAAP basis, we exclude estimates for amortization of intangible assets, share-based compensation expenses, acquisition-related charges, restructuring benefits or charges, impairment charges, litigation settlement benefits or charges and resolution charges, supplier component remediation charges and recoveries, gain or loss on equity investments, retroactive impact of certain tax settlements, significant effects of tax legislation and judicial or administrative interpretation of tax regulations, including the impact of include the impact of any future acquisitions, divestitures, or joint ventures that may occur in the period. Juniper is unable to provide a non-GAAP guidance measures to corresponding GAAP measures on a forward-looking basis without unreasonable effort due to the overall high variability and low visibility of most of the foregoing items that have been excluded. The items that are being excluded are difficult to predict and a reconciliation could result in disclosure that would be imprecise or potentially misleading. Material changes to any one of these items could have a significant effect on our guidance and future GAAP results.



The World is Changing Fast

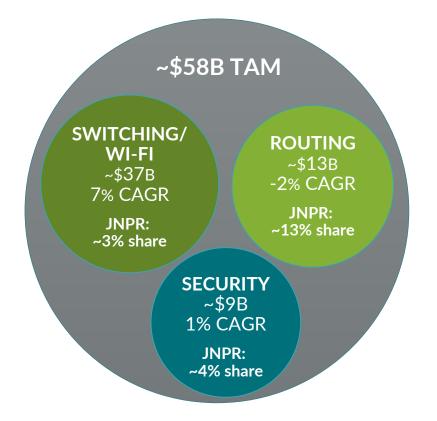


JUNIPE

Juniper is Leading the Market Transformation

Hardware defined	Software/cloud defined
Perimeter	Pervasive
Manual enforcement	Automated
Configuration driven	Business driven
Closed ecosystem	Open framework

Large and Growing Opportunity





CLOUD

- Own the MX>PTX transition
- Break into hyperscale data center switching

SERVICE PROVIDER Telco Cloud enablement

5G/Metro buildouts

ENTERPRISE

- Data center & secure and automated multicloud
- Security momentum

LARGE OPPORTUNITY* TO TAKE SHARE

STRONG APPROACH TO CUSTOMER VERTICALS

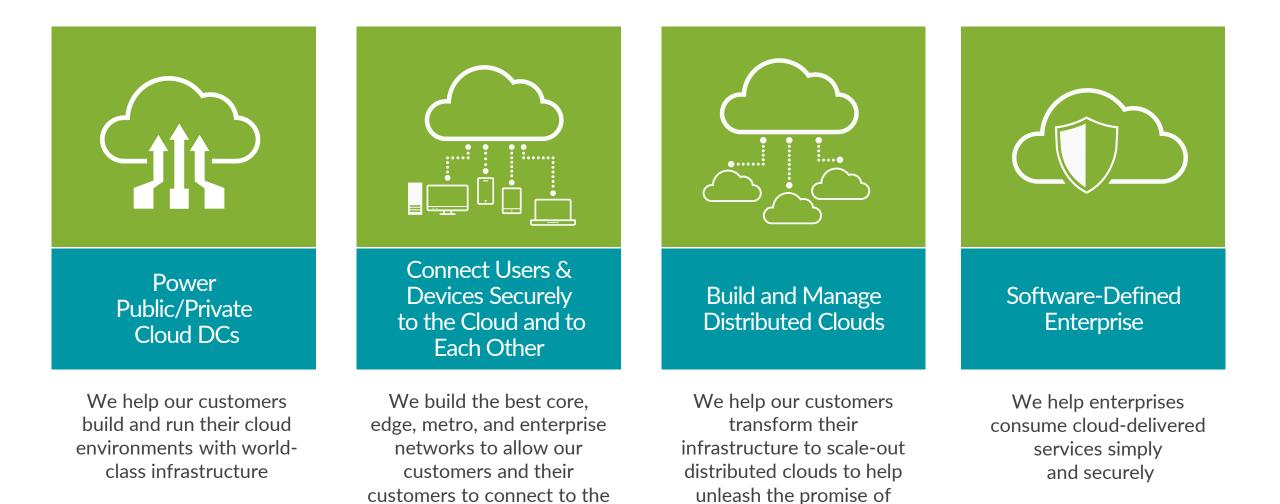
*Source: ACG Research, Omdia, 650 Group, Juniper analysis - TAM is 2019; CAGR is 2020-2024

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Our Strategy in a Changing World



5G & IoT

JUNIPEI

cloud

Positioned to Win in 2020 and Beyond

PTX Series

Power Public/Private Cloud DCs Connect Users and Devices Securely to the Cloud and to Each Other

Build and Manage Distributed Clouds

EX Series

Software-Defined Enterprise

Strong, competitive platforms

QFX Series



Mist Systems

MX Series

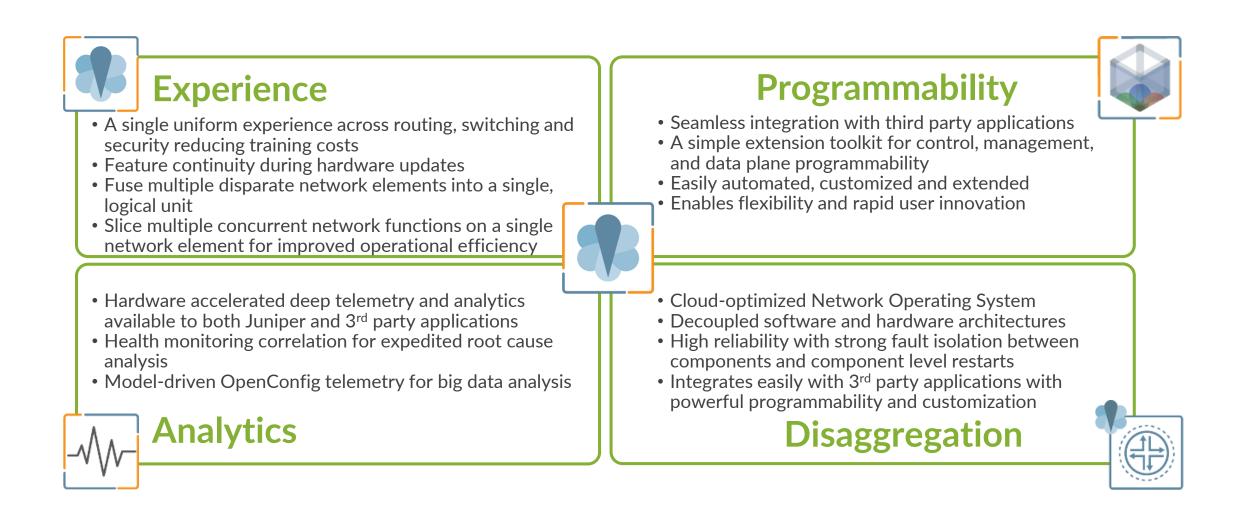
ACX Series NFX Series SRX Series

Rich Overlay and Underlay Software Capabilities Junos OS with Quality, Contrail Orchestration, AppFormix Analytics





The Juniper Advantage – Junos OS



JUNIPEI

JUNIPE

Top Ranked SP Vendor

TECHNOLOGY INNOVATION



SECURITY

PRODUCT ROADMAP



PRODUCT RELIABILITY



SERVICE SUPPORT



PRICE PERFORMANCE

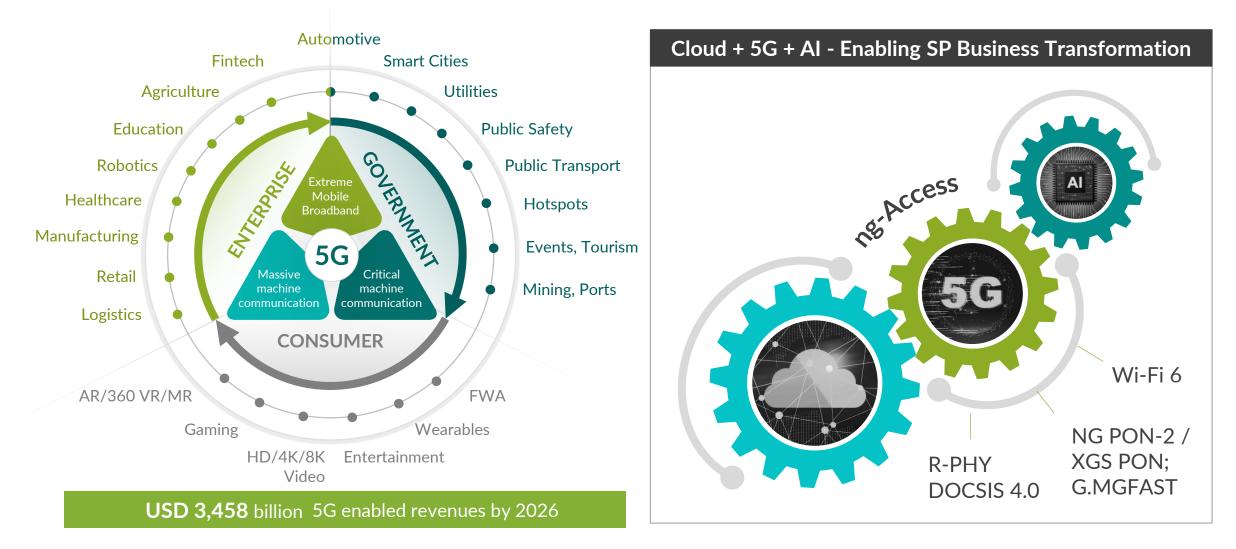


Source: 2017 IHS Markit Report

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'CLOUD + 5G + AI' Era has begun, opening new growth opportunities and enabling holistic business transformation for SPs



Why Partner with Juniper for your Transformation Journey

ARCHITECTURAL SHIFT TO Agile, Open	 Horizontal, Open, Pre-validated NFVI stack; Cloud-Native CNFs/VNFs Elastic, highly scalable IP fabric ("Deploy and forget") Agile IP platforms (ACX, MX, PTX) that can be purposed for any role Open X-Haul for Classic/Cloud/ORAN/Fixed Access Open and Extensible APIs/Interfaces, not just Programmable ("Easy Button")
OPERATIONAL ECONOMICS SHIFT TO On-demand	 Build or Managed Edge Cloud business models Centralized management & remote edge for lowest TCO - ops & compute Right tool for the job - Custom / Merchant Si choices for Scale up / Out PAYG, Centralized metering per port for use-case based pricing Automation & Security that scale & distribute with Cloud
SERVICE EXPERIENCE SHIFT TO	 Network slicing using SR for differentiated QoE per slice Cross-domain, Closed loop automation portfolio with AI/ML, Predictive analytics

- Active probing + real time streaming telemetry for visibility
- Connected Security, integrated with the network, without performance penalty
- Continuous Threat Intelligence (Detection and Enforcement)

- Ready to monetize Managed Edge Cloud with Stackpath
- 5G WWC, FWA
- Cloud-delivered Managed Services for 'AI-Driven Enterprise'
- 5G urLLC, eMBB, mMMTC apps

Create value with new services

Secure, Assured

Juniper Public

MX5G Extends Juniper's Routing leadership...



50% More Power Efficient

300% More Performance than Gen 4/Linecard

400GbE Support

Juniper Penta Silicon

Powering the MX Series 5G Universal Routing Platform Infinite Programmability with Built-in Encryption

Industry only Universal Chassis – 65% Lower Opex



Industry Leading IP Transport Performance: New Silicon



Juniper Triton Silicon

Powering the Future for PTX Series Packet Transport Routers 70% More Power Efficient than ExpressPlus

620% More Performance than ExpressPlus

Industry First 400GbE Native MACsec

Dynamic Ethernet Interface Support: 10GbE, 25GbE, 50GbE, 100GbE, 200GbE, 400GbE

Industry only Universal Chassis – 65% Lower Opex

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'Fire & Forget' with the MX Multiservice Edge Platform



Performance & Programmability

• Penta, the 5th generation of Trio silicon



One Junos Experience

- Operational consistency
- Feature velocity
- Open for Automation

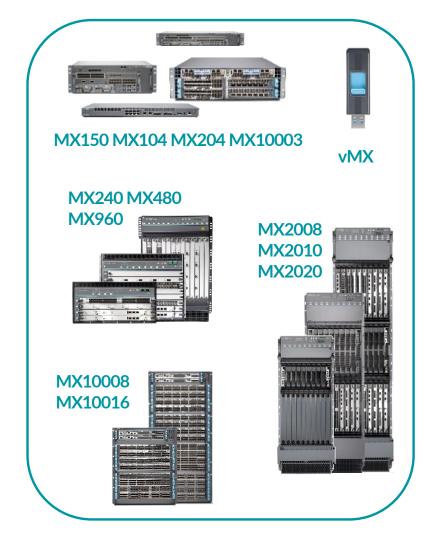


Integrated Security

 Security without performance penalty – SecIntel, DDOS, firewall



Agility for the Unknown



Juniper Metro Fabric Portfolio

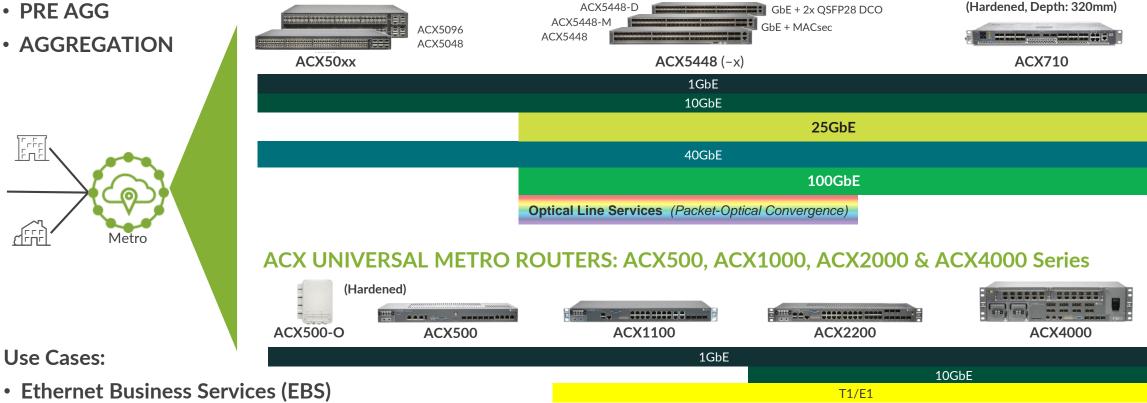
• ACCESS

PRE AGG

((9

AGGREGATION

ACX UNIVERSAL METRO ROUTERS: ACX5000 & ACX700 Series



- Residential: FTTH, GPON & DAA/R-PHY
- Mobile X-Haul
- Cloud Connect

OC3 (STM1)/OC12 (STM4)

PTX Series for Cloud Routing



One Junos Experience

- Operational consistency
- Junos evolved best cloud OS available
- Open for automation



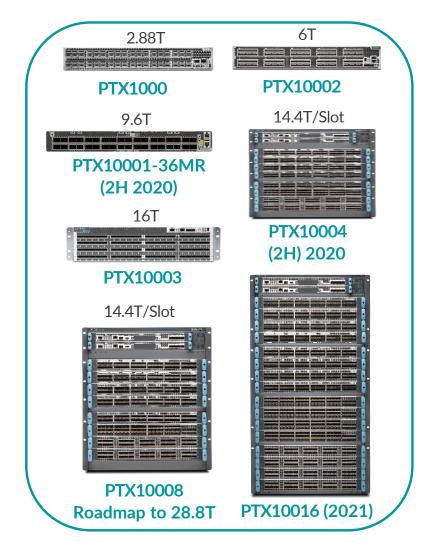
Performance @ Scale

- First to 400G
- Lowest cost per bit highest density, best power efficiency



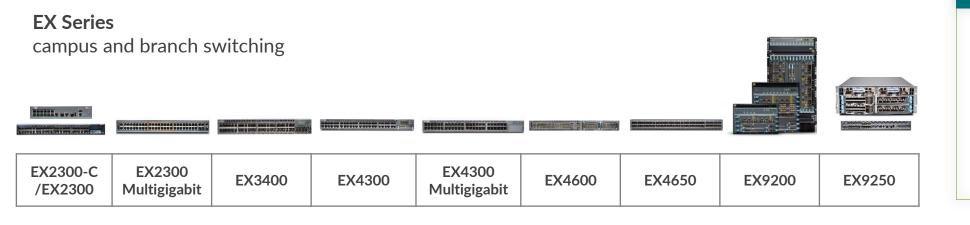
Versatility

- Handles all scale up/scale out use cases: Core, Peering, DC Spine, DC Edge, DCI, ...
- Flex licensing pay only for the bandwidth & features you need



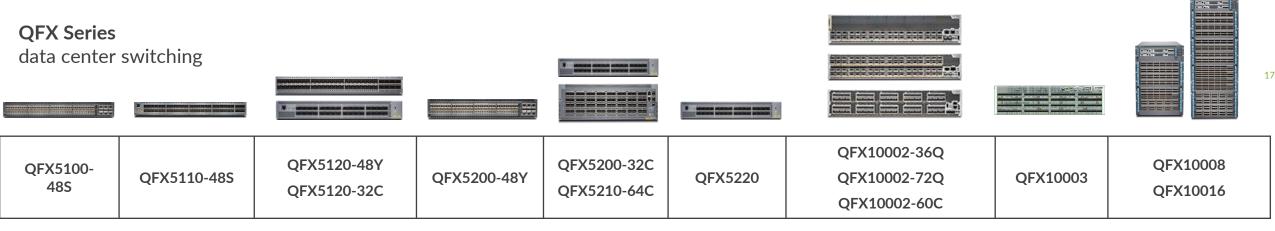
The Juniper Advantage – Cloud Class Switching

Robust Portfolio



Centralized Management and Control

- Juniper Sky Enterprise for cloud-based management
- Contrail Enterprise Multicloud for simplified multicloud orchestration and analytics



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Juniper Networks Leads 400GbE Transition with Comprehensive Roadmap



changes the economic profile for both scale-up and scale-out secure architectures across backbone, peering & DCI



MX Series: Industry's only platform to deliver near-infinite programmability, cost efficiency and versatility for next generation secure service creation across 5G and IoT at scale.

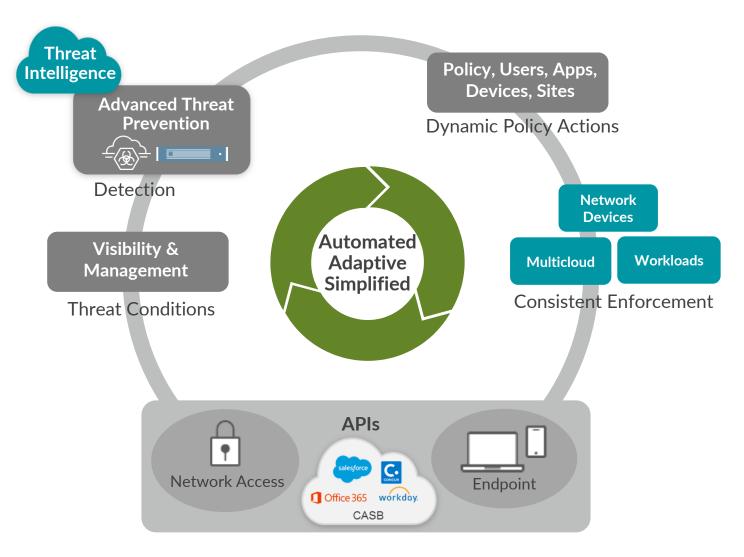
Flexible Switching



Data Center

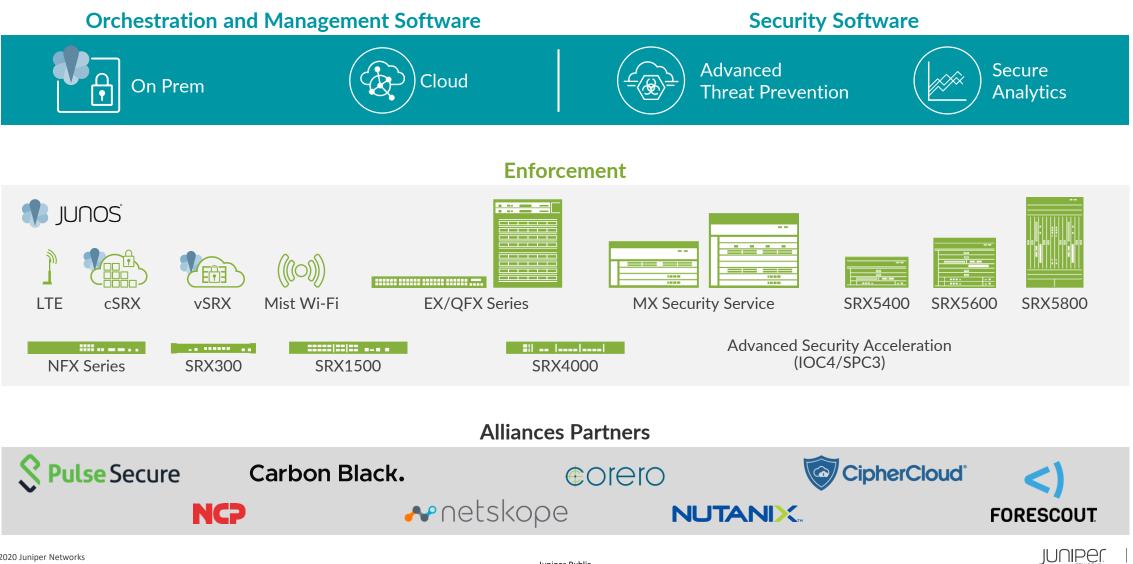
QFX series: of data center switches with 400GbE technology to enable the next-generation of IP Fabric with investment protection as customers increase the capacity of their data centers to meet emerging high-performance applications

The Juniper Advantage - Connected Security Policy, Detection & Enforcement



- Fast protection from unknown malware and advanced attacks
- Threat behavior analysis across threat lifecycle
- One touch automated enforcement and mitigation
- Unified visibility across traditional and multicloud environments
- Open architecture and suite of APIs

Connected Security portfolio



Efficacy – ICSA labs certified, 4 quarters running

0

100

200

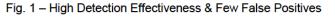
300



ATP - 99.2% security effectiveness

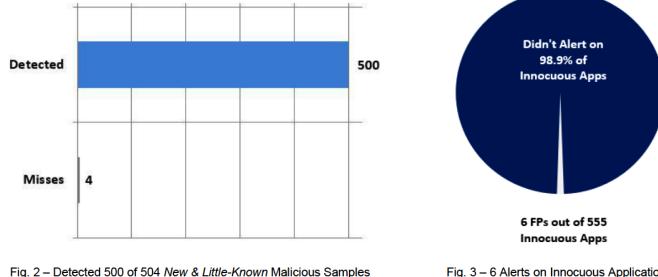
400

Test Length	28 days	Malicious Samples	504	Innocuous Apps	555
Test Runs	1059	% Detected	99.2%	% False Positives	1.1%



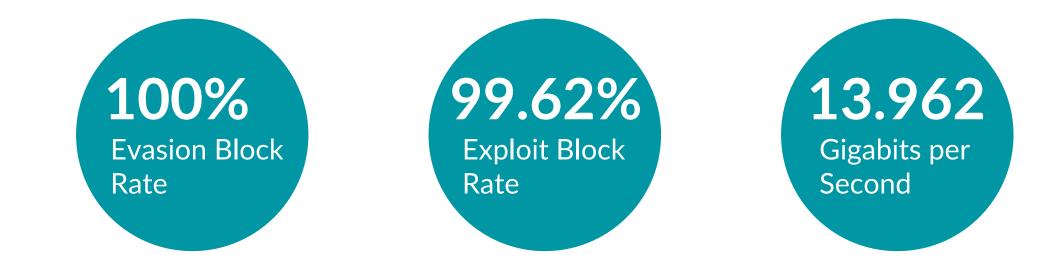
500







Recommended by NSS Labs for data center security



Juniper is back. The company is reasserting itself in the data center with a strong showing and should be on everyone's short list. - NSS Labs 2019 Data Center Security Group Security Value Map[™] Comparative Report



Juniper Networks is Named a Leader. Again.

• 2020 Magic Quadrant for Data Center Networking



We're committed to improving business outcomes that are most important to you. We are simplifying network complexity with secure and automated multicloud solutions.

Built on a common operating system, our enterprise solutions let you apply consistent, end-to-end policies wherever your applications and data reside. Let us help you achieve your multicloud vision for both today and tomorrow with open, intent-based connectivity for simple, automated network operations.

Gartner Magic Quadrant for Data Center Networking, Andrew Lerner, Evan Zeng, Jonathan Forest 30 July 2020.

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Juniper Networks Recognized as a Leader in Forrester WaveTM

THE FORRESTER WAVE™

Open, Programmable Switches For A Businesswide SDN Q3 2020

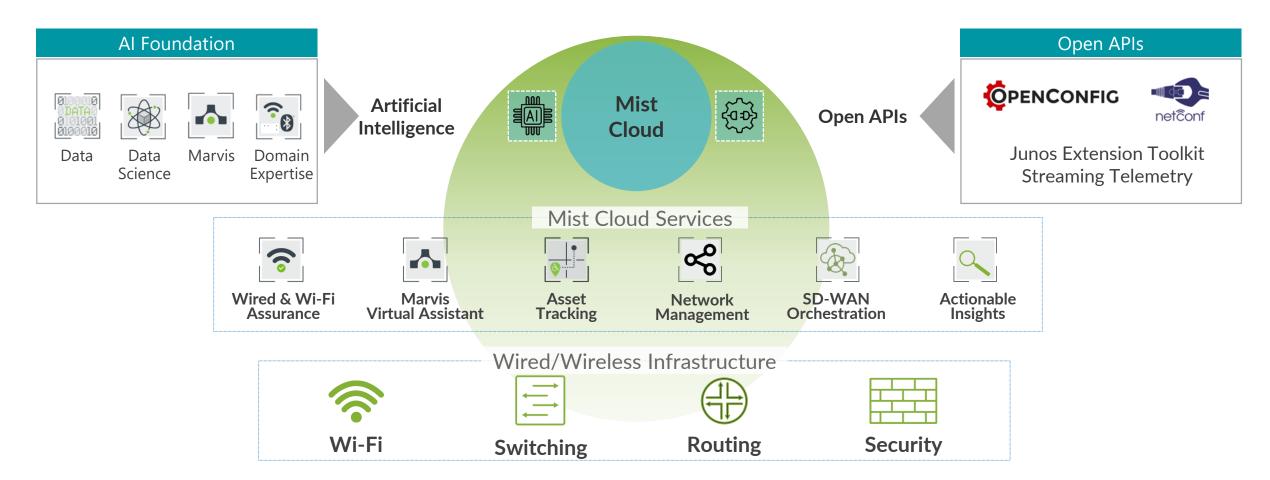


- "Juniper Networks recognizes that customers need more than technology and products. It developed various resources to educate customers on laying out their automation journey, it increased the amount of education classes around programming, and led various open standards efforts to create open networking fabrics. Customers that want to automate the entire network with a consistent OS, from the data center to the business edge, should look to Juniper Networks."
- The Forrester Wave[™]: Open, Programmable Switches For A Businesswide Software-Defined Network, Q3 2020



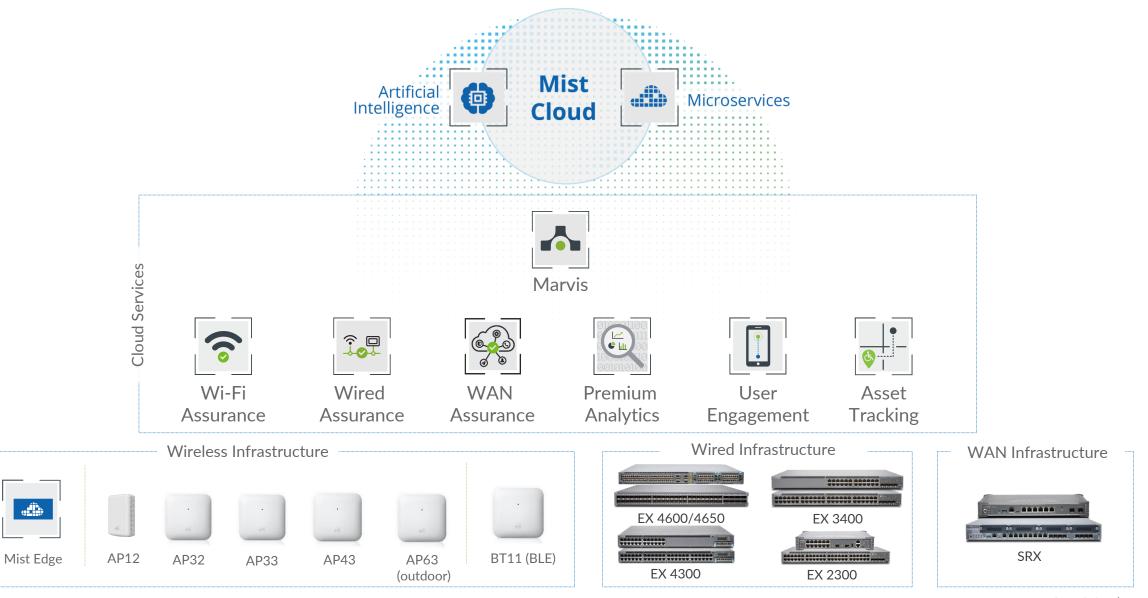
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The AI-Driven Enterprise



OurLead a new era of IT that uses AI to deliver a proactive, predictive, and self-healing network thatMission:saves time and money, delivers unprecedented scale, and provides unparalleled user experiences.

Al-driven enterprise solution driven by Mist Al



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Full Portfolio of Wireless

i un		NEW	NEW	NEW	NEW				
	AP43	AP63	AP33	AP32	AP12	AP41	AP61	AP21	BT11
Deployment	Indoor	Outdoor	Indoor	Indoor	Indoor Wall Plate	Indoor	Outdoor	Indoor	Indoor
Wi-Fi Standard	802.11ax (Wi-Fi 6) 4x4:4SS	802.11ax (Wi-Fi 6) 2x2:2SS	802.11ac Wave 2 4x4:4SS	802.11ac Wave 2 4x4:4SS	802.11ac Wave 2 2x2:2SS				
Wi-Fi Tri-Radio	~	~	~	~	~	~	~		
Antenna Options	Internal External	Internal External	Internal	Internal External	Internal External	Internal External	Internal External	Internal	Internal
Virtual BLE	~	~	~	- (omni BLE)	- (omni BLE)	~	~	~	~
loT Interface	~					~			

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27

AP 12, 63 shipping in Q3

JUNIPER

Juniper Public

IoT Sensors

Humidity,

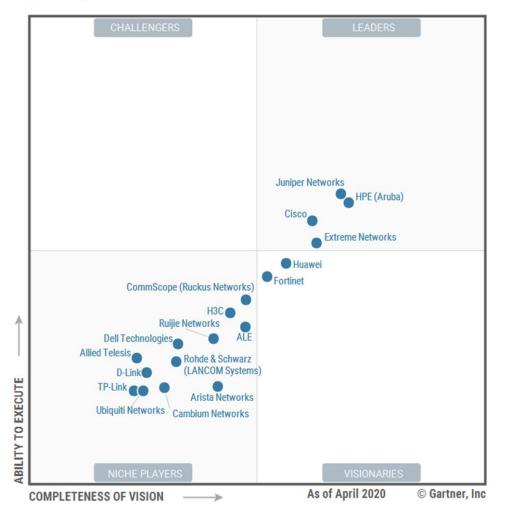
Pressure,

Temperature

Juniper Networks is a Leader

2020 Magic Quadrant for Wired and Wireless LAN Access Infrastructure

Figure 1. Magic Quadrant for Wired and Wireless LAN Access Infrastructure



Juniper Networks is positioned **highest** for **execution** in the Leaders' Quadrant.

"In our opinion, this report validates the unique advantages of the Juniper AI-driven enterprise, including rich AIOps functionality and proactive self-driving automation for optimized user experiences." - Jeff Aaron, VP of Enterprise Marketing at Juniper

Access a Complimentary Copy

Gartner Magic Quadrant for Wired and Wireless LAN Access Infrastructure by Bill Menezes, Christian Canales, Tim Zimmerman, Mike Toussaint, 4 November 2020. This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from Juniper Networks. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

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Contrail Enterprise Multicloud – Hyperscale Infrastructure for Every Enterprise





Private cloud data centers, public cloud and VMware private clouds



Any Deployment

Bare metal servers, public cloud instances, virtual machines, containers and physical networking devices

Greenfield or brownfield, single- or multivendor

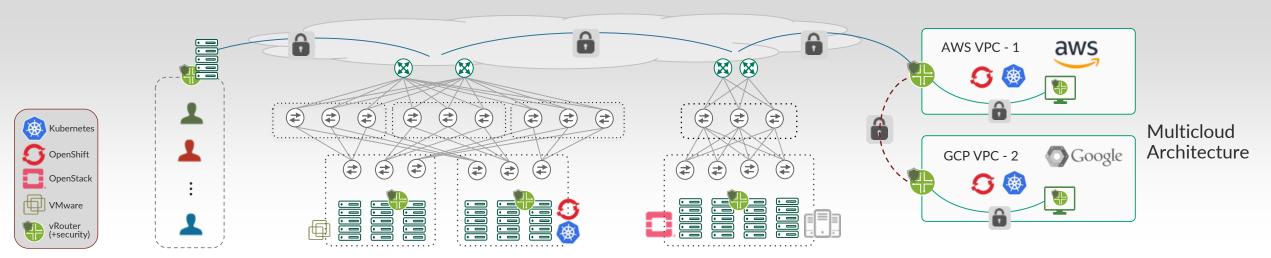
One, open platform for end to end policy and control with analytics



Contrail Enterprise Multicloud

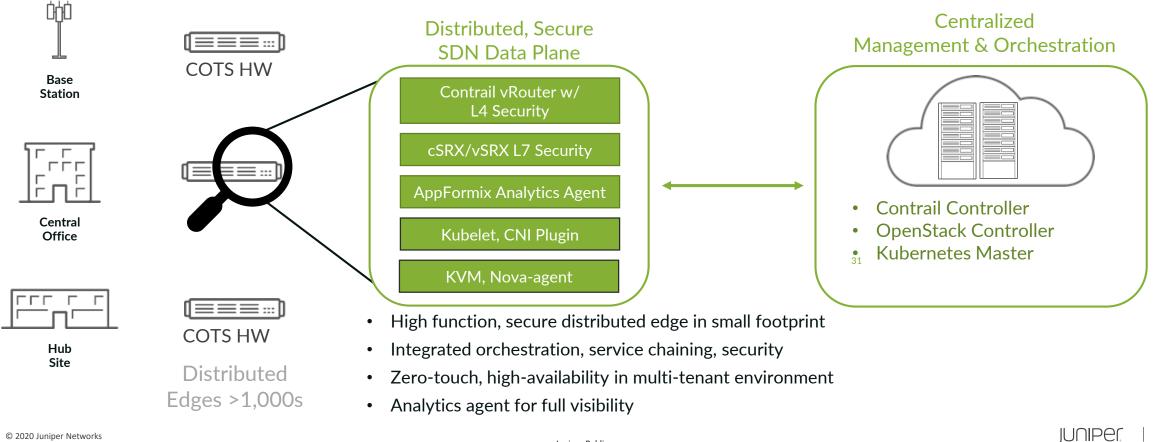
One Platform to Control Extensive Multicloud Architectures





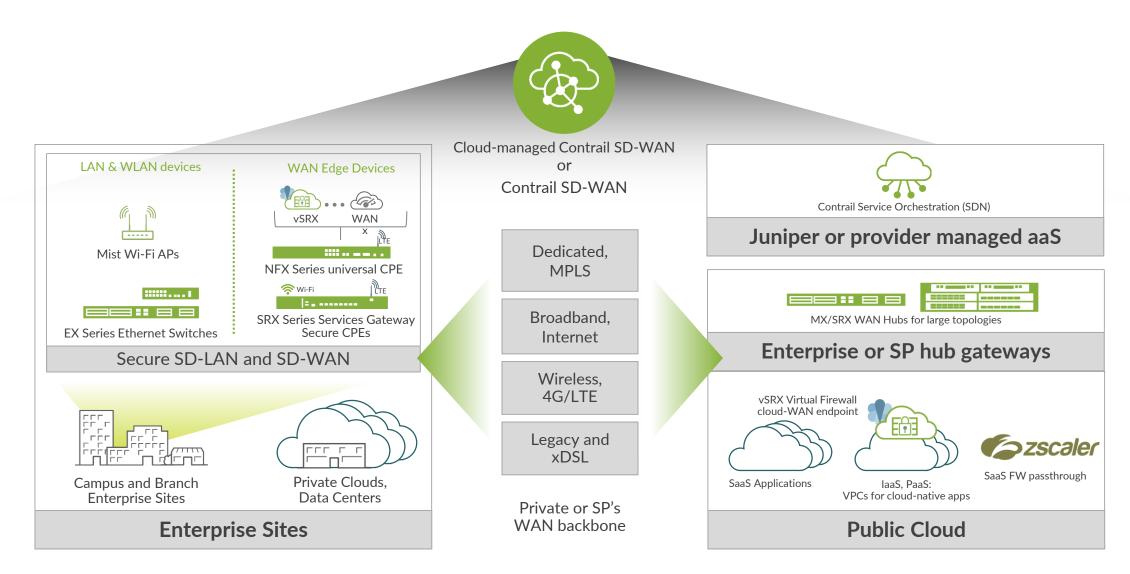
Contrail Edge Cloud

First production-grade solution that can extend a full suite of orchestration, automation, security, and analytics to deploy dynamic services for 4G, 5G, IoT, Residential, and Enterprise in a cost and resource efficient manner



Juniper Public

Contrail SD-WAN Solution for Enterprise Campus & Branch



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Customer Recognition in the Enterprise



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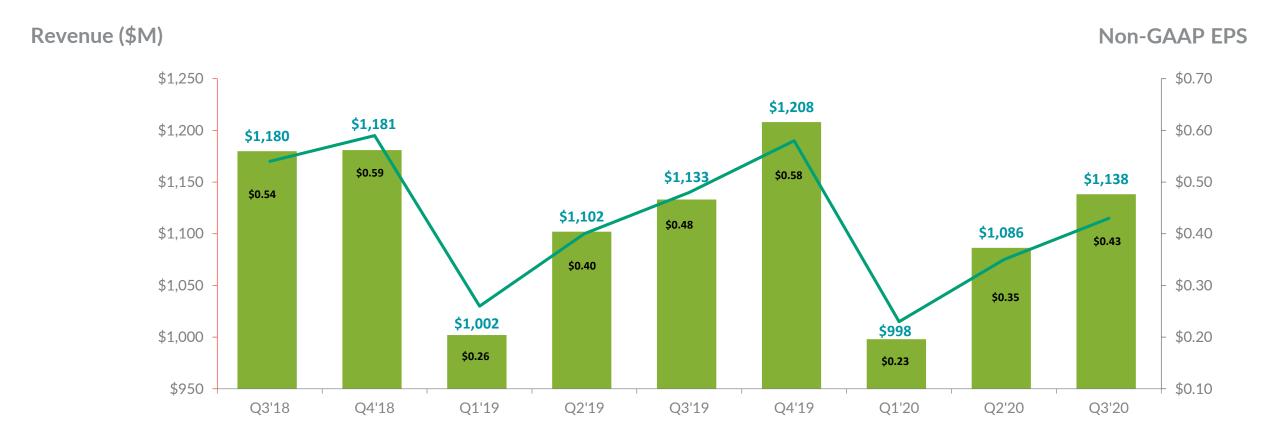
Strong Partnerships



Financials



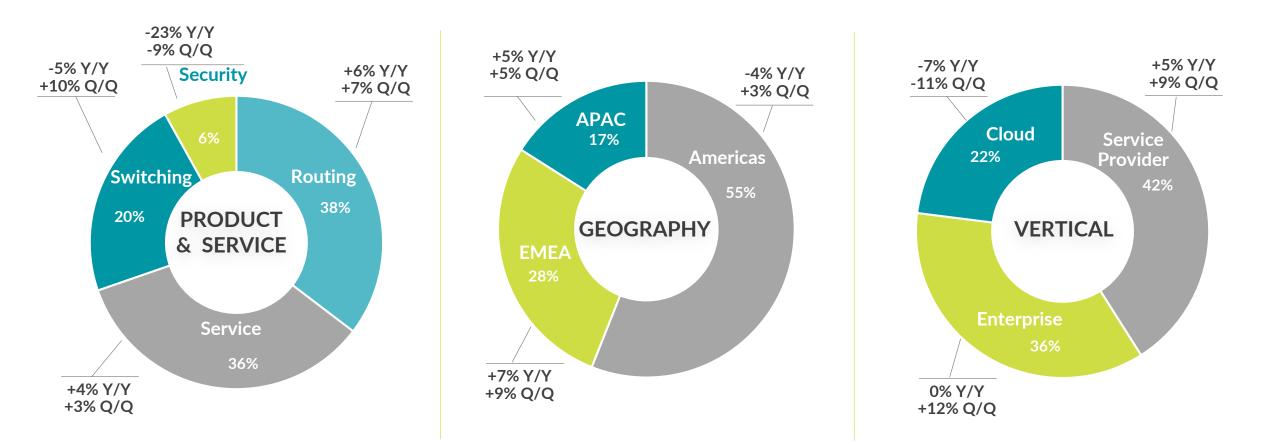
Quarterly Trended Results



Revenue



Q3'20 Revenue Detail



Cash Flow

(In millions) (Unaudited)

	Three Months Ended												
		September 30, 2019		•		December 31, 2019		March 31, 2020		June 30, 2020	September 30, 2020		
Operating cash flow	S	185.0	\$	95.7	\$	272.2	\$	97.6	\$	116.4			
Capital expenditures		28.3		26.1		21.8		22.0		24.1			
Free cash flow	S	156.7	S	69.6	\$	250.4	\$	75.6	\$	92.3			

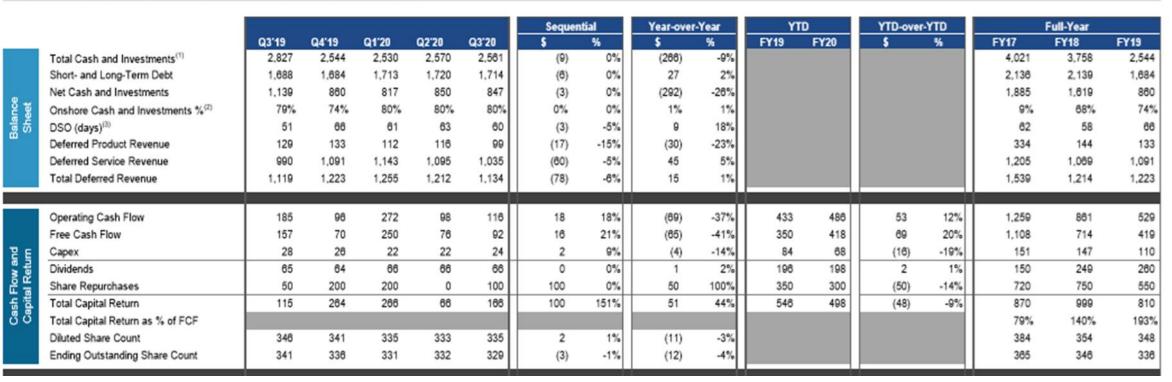
		Twelve Months Ended									
	Dec	ember 31, 2017		mber 31, 2018	December 31, 2019						
Operating cash flow	S	1,259.3	S	861.1	S	528.9					
Capital expenditures		151.2		147.4		109.6					
Free cash flow	S	1,108.1	S	713.7	S	419.3					



Summary of B/S, Cash Flow, and Capital Metrics

Summary of Key B/S, Cash Flow, and Capital Metrics

(in millions, except percentages, DSO, Debt to EBITDA, and Cash Conversion Cycle)



APPENDIX – GAAP TO Non-GAAP Reconciliation

(In millions, except per share amounts) (Unaudited)

	Three Months Ended														
	September 30, De 2018		December 31, 2018		March 31, 2019		June 30, 2019	September 30, 2019		December 31, 2019		March 31, 2020	June 30, 2020	September 30 2020	
GAAP net income	\$ 22	3.8	\$ 192.2	\$	31.1	\$	46.2	\$	99.3	\$ 168.4	\$	20.4	\$ 61.2	S	145.4
Share-based compensation expense	5	3.2	36.9		33.9		55.7		57.5	55.1		42.0	44.0		52.7
Share-based payroll tax expense		0.4	0.4		4.7		0.7		0.3	0.4		4.0	0.6		0.9
Amortization of purchased intangible assets		4.4	4.3		4.9		9.9		9.9	9.9		9.9	9.4		9.4
Restructuring charges (benefits)		4.4	5.0		15.3		21.4		(1.1)	(0.3)		8.9	4.8		1.2
Acquisition and strategic investment related charges		-	4.3		10.2		4.3		2.4	1.0		1.3	2.1		3.5
Strategic partnership-related charges		0.9	1.0		0.8		-		-	-		-	-		-
Legal reserve and settlement (benefits) charges	1	2.0	-		-		-		(0.2)	-		-	-		-
Loss (gain) on equity investments		2.8	1.3		1.1		3.5		3.4	0.8		1.5	(2.5)		0.1
Loss on extinguishment of debt		-	-		-		-		15.3	-		-	-		-
Estimated tax expense from income tax reform		-	3.2		-		-		-	-		-	-		-
Recognition of previously unrecognized tax benefits	(6	7.6)	(5.4)		-		-		-	(25.4)		-	-		(54.5)
Reduction of expected tax liabilities from tax accounting method change	(3	3.2)	(26.7)		-		-		-	-		-	-		-
Income tax effect of non-GAAP exclusions	(1	0.1)	(10.8)		(9.3)		(2.2)		(20.2)	(11.2)		(10.8)	(3.3)		(14.3)
Non-GAAP net income	<u>\$</u> 19	1.0	\$ 205.7	\$	92.7	S	139.5	\$	166.6	\$ 198.7	\$	77.2	\$ 116.3	S	144.4
GAAP diluted net income per share	\$ (.64	\$ 0.55	\$	0.09	\$	0.13	\$	0.29	\$ 0.49	\$	0.06	\$ 0.18	\$	0.43
Non-GAAP diluted net income per share	\$ (.54	\$ 0.59	\$	0.26	\$	0.40	\$	0.48	\$ 0.58	\$	0.23	\$ 0.35	S	0.43
Shares used in computing GAAP diluted net income per share	35	0.5	350.8		352.7		349.1		345.5	340.8		335.1	333.1		334.5
Shares used in computing Non-GAAP diluted net income per share	35	0.5	350.8		352.7		349.1		345.5	340.8		335.1	333.1		334.5

Cash Flow

(In millions) (Unaudited)

	Three Months Ended												
	September 30, 2019		December 31, 2019		Ν	March 31, 2020		June 30, 2020	September 30, 2020				
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Thank you

JUNIPE

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Industry Analyst Relations - Ben Culp
bculp@juniper.net

Engineering Simplicity