

#### **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 income tax reform, non-recurring income tax adjustments, valuation allowance on deferred tax assets, and the income tax effect of non-GAAP exclusions, and do not include the impact of any future acquisitions, divestitures, or joint ventures that may occur in the period. Juniper is unable to provide a reconciliation of 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.

JUNIPEC,

## The World is Changing Fast

THE CLOUD IS EATING THE WORLD



of enterprise applications in the cloud by 2020

FIGHTING CYBER-CRIME AND LOSING



\*

will be spent on fighting cybercrime in 2022

**ECONOMICS REACHING A BREAKING POINT** 



Internet traffic growth while IT budgets are flat

THE INTERNET OF THINGS – EVERYTHING IS CONNECTED



connected devices by 2025

**5G WILL ENABLE A NEW BREED OF MOBILE APPS** 



Is how much faster 5G is estimated to be over 4G

A.I. HAS **EMERGED** 



of business leaders say A.I. will be a business advantage

## Juniper is Leading the Market Transformation

Hardware defined Software/cloud defined

Perimeter Pervasive

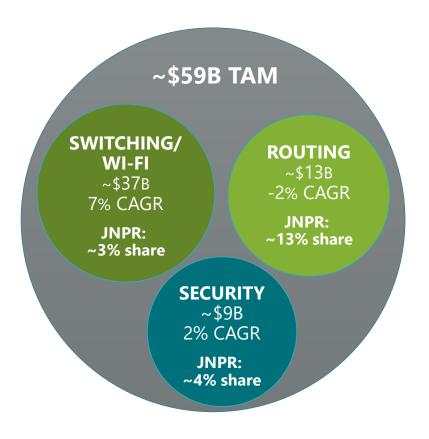
Manual enforcement Automated

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

## **Our Strategy in a Changing World**



Power
Public/Private
Cloud DCs

We help our customers build and run their cloud environments with worldclass infrastructure



Connect Users & Devices Securely to the Cloud and to Each Other

We build the best core, edge, metro, and enterprise networks to allow our customers and their customers to connect to the cloud



Build and Manage Distributed Clouds

We help our customers transform their infrastructure to scale-out distributed clouds to help unleash the promise of 5G & IoT



Software-Defined Enterprise

We help enterprises consume cloud-delivered services simply and securely

## Positioned to Win in 2020 and Beyond

**Power Public/Private Cloud DCs** 

**Connect Users and Devices Securely to the Cloud and to Each Other** 

**Build and Manage Distributed Clouds**  **Software-Defined Enterprise** 













**PTX Series** 

**OFX Series** 

**EX Series** 

**Mist Systems** 

**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



## **Experience**

- A single uniform experience across routing, switching and security
- Feature continuity during hardware updates
- Fuse multiple disparate network elements into a single, logical unit
- Slice multiple concurrent network functions on a single network element for improved operational efficiency
- Hardware accelerated real-time telemetry support
- Health monitoring correlation for expedited root cause analysis
- Model-driven OpenConfig telemetry for big data analysis



### **Analytics**

## **Programmability**





 Easy integration with third party automation frameworks for high degree network customization



- X86 standardized for simple application integration with virtualization technologies like KVM and containers
- Supports third-party VM, container, or native Linux binary

## Disaggregation







Top Ranked SP Vendor













Source: 2017 IHS Markit Report

## MX5G Extends Juniper's Routing leadership...



Juniper Penta Silicon Powering the MX Series 5G Universal Routing Platform

- **1** 50% More Power Efficient
- **300% More Performance than Gen 4/Linecard**
- **400GbE Support**
- Infinite Programmability with Built-in Encryption
- 5 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

Juniper Public

- **Output Description Descri**
- **Industry First 400GbE Native MACsec**
- Dynamic Ethernet Interface Support: 10GbE, 25GbE, 50GbE, 100GbE, 200GbE, 400GbE
  - 5 Industry only Universal Chassis 65% Lower Opex

# 'Fire & Forget' with the MX Multiservice Edge Platform



## **Performance &** Programma bility of Trio silicon



## **One Junos Experience**

- Operational consistency
- Feature velocity
- Open for Automation

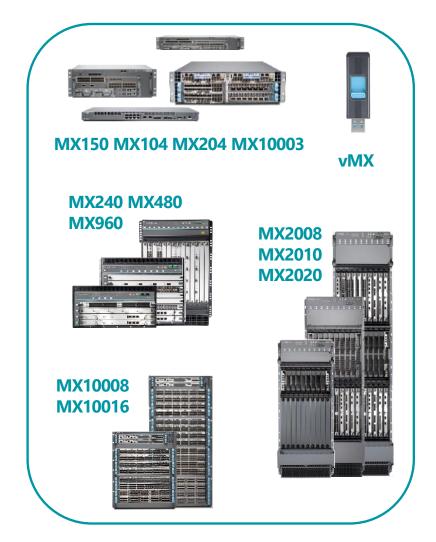


### **Integrated Security**

• Security without performance penalty – SecIntel, DDOS, firewall



**Agility for the Unknown** 



## **Juniper Metro Fabric Portfolio**

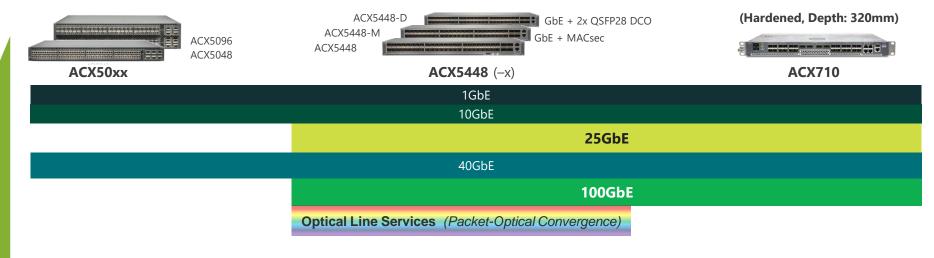
ACCESS

PRE AGG

AGGREGATION



#### **ACX UNIVERSAL METRO ROUTERS: ACX5000 & ACX700 Series**



#### ACX UNIVERSAL METRO ROUTERS: ACX500, ACX1000, ACX2000 & ACX4000 Series



#### **Use Cases:**

- Ethernet Business Services (EBS)
- Residential: FTTH, GPON & DAA/R-PHY
- Mobile X-Haul
- Cloud Connect

OC3 (STM1)/OC12 (STM4)

10GbE

T1/E1

## **PTX Series for Cloud Routing**



## **One Junos Experience**

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



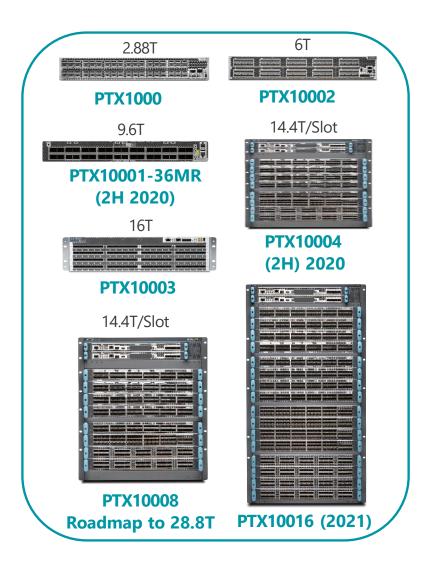
## **Performance @ Scale**

- 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**

EX Series campus and branch switching

EX2300-C /EX2300 Multigigabi t EX3400 EX4300 Multigigabit t EX4600 EX4650 EX9200 EX9250

**QFX5200-48Y** 

QFX5120-32C

# Centralized Management and Control

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

QFX10003



QFX5220

QFX10002-72Q

QFX10002-60C

JUNIPER.

QFX5110-48S

QFX5100-48S

**QFX10016** 

QFX5210-64C

# **Juniper Networks Leads 400GbE Transition with Comprehensive Roadmap**

### Secure Routing



### **IP Transport**

PTX Series: World-class engineering that fundamentally changes the economic profile for both scale-up and scale-out secure architectures across backbone, peering & DCI

### Secure Routing



### **WAN Services**

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.

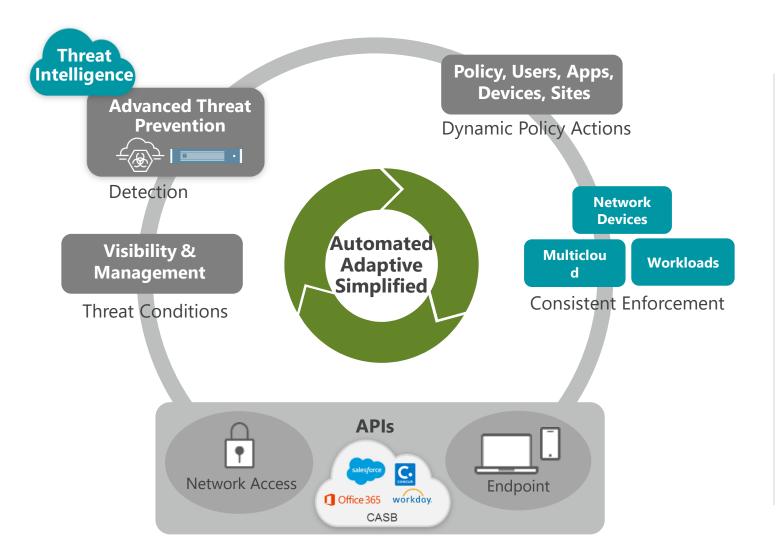
### Flexible Switching



#### **Data Center**

**OFX 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**

**Orchestration and Management Software** 

#### **Security Software**









#### **Enforcement**



#### **Alliances Partners**



Carbon Black.













# Efficacy – ICSA labs certified, 4 quarters running





## ATP - 99.2% security effectiveness

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

Fig. 1 – High Detection Effectiveness & Few False Positives

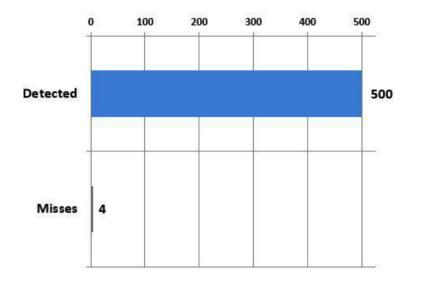


Fig. 2 - Detected 500 of 504 New & Little-Known Malicious Samples



Fig. 3 – 6 Alerts on Innocuous Applications

# Recommended by NSS Labs for Data Center Security in 2019 Data Center Security Gateway Test Report

"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

For a full copy of the report, please see <a href="https://www.juniper.net/securedc">www.juniper.net/securedc</a>



**100% Evasion Block Rate** 



99.62% Exploit Block Rate



**13.962 Protected Gbps** 



## 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.

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.

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# Juniper Networks Recognized as a Leader in Forrester **Wave<sup>TM</sup>**

#### THE FORRESTER WAVE™

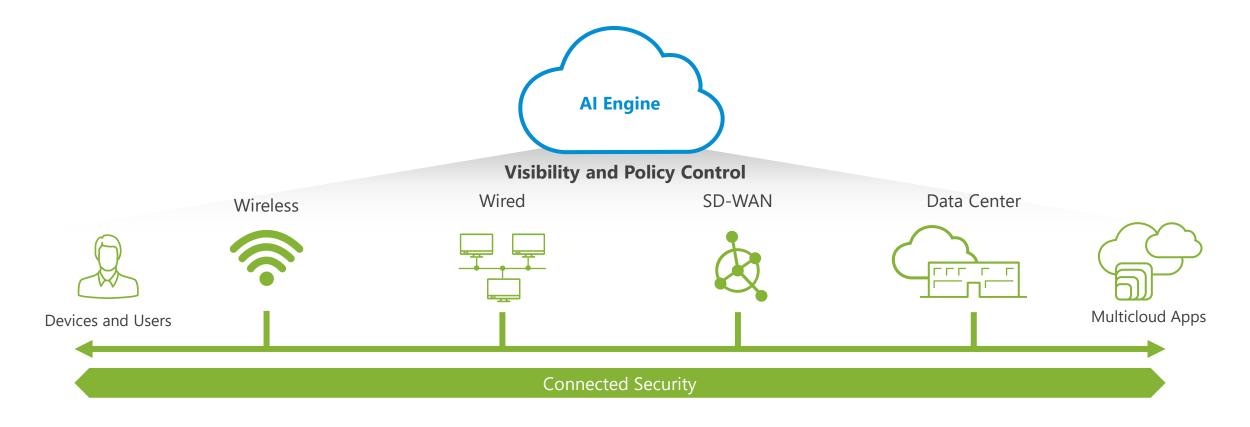
Open, Programmable Switches For A Businesswide SDN Q3 2020



- "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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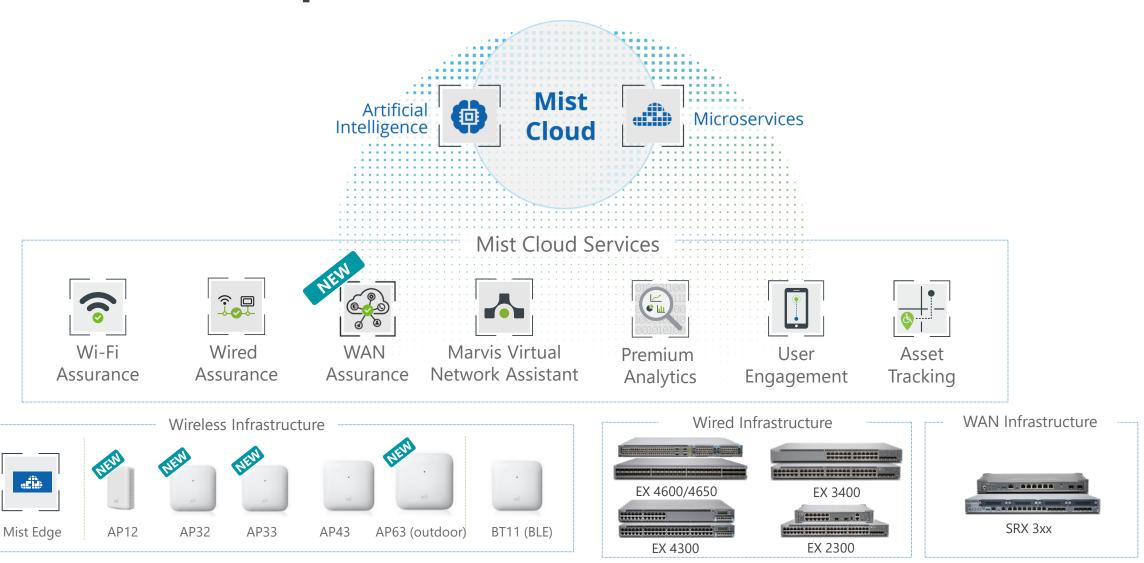
## **Our Al-Driven Enterprise Mission**



#### **Our Mission:**

Juniper-Mist is leading a new era of IT that uses AI to save time and money, deliver unprecedented scale and provide unparalleled user experiences.

## **AI-Driven Enterprise Solution**



# Full Portfolio of Wireless



	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 ( <b>Wi-Fi 6</b> ) 4x4:4SS	802.11ax ( <b>Wi-Fi 6</b> ) 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	~					~			











AP 12, 63 shipping in Q3

# **Contrail Enterprise Multicloud – Hyperscale Infrastructure for Every Enterprise**





Private cloud data centers, public cloud and VMware private clouds



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



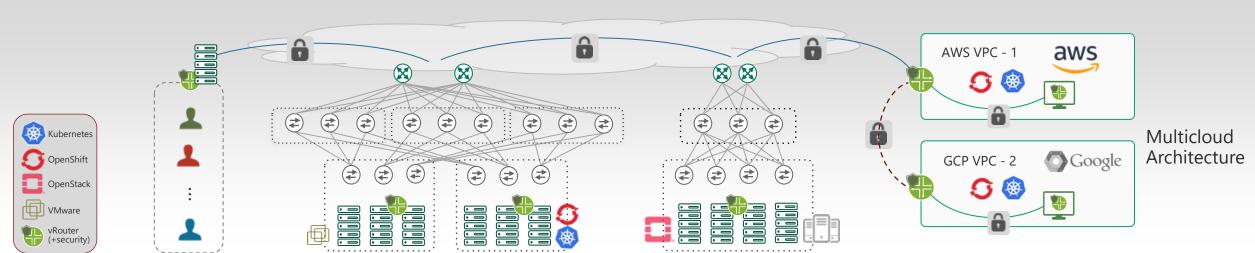
Greenfield or brownfield, single- or multivendor

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

## **Contrail Enterprise Multicloud**

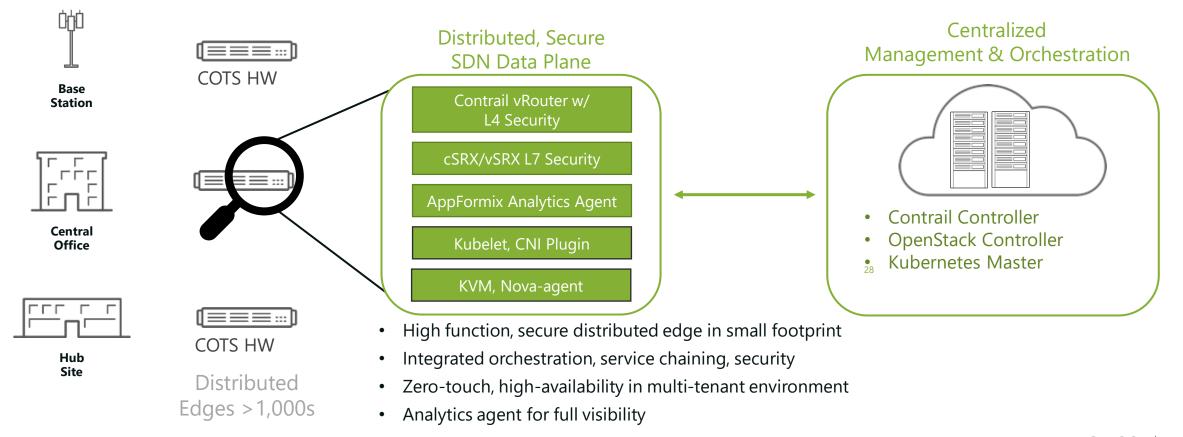
One Platform to Control Extensive Multicloud Architectures



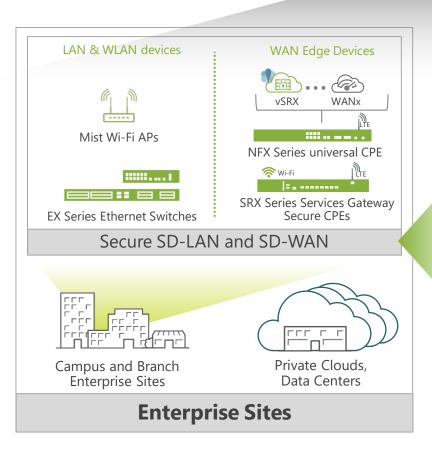


## **Contrail Edge Cloud**

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



# Contrail SD-WAN Solution for Enterprise Campus & Branch





Cloud-managed Contrail SD-WAN or Contrail SD-WAN

> Dedicated, MPLS

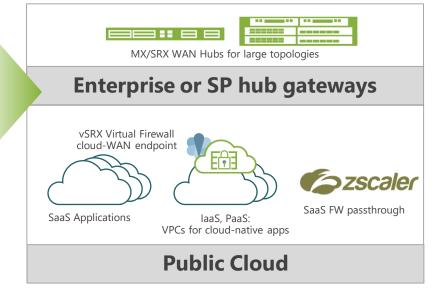
Broadband, Internet

Wireless, 4G/LTE

Legacy and xDSL

Private or SP's WAN backbone





## **Customer Recognition in the Enterprise**



DATA CENTER NETWORKING
OCTOBER 2019





WIRED AND WIRELESS LAN ACCESS

INFRASTRUCTURE





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## **Strong Partnerships**

**Latest Partner News** 

anuta networks



**ERICSSON** Complete end-to-end solution to accelerate 5G transformation



Simplified and more secure path to multicloud

Advanced network automation

Improved network automation and security























**Atos** 















#### **Technology Alliance Partners**





































Check Point









cloudscaling



**COTO** 











Gencore









































Wireless Enterprise







**JUNIPE** 

























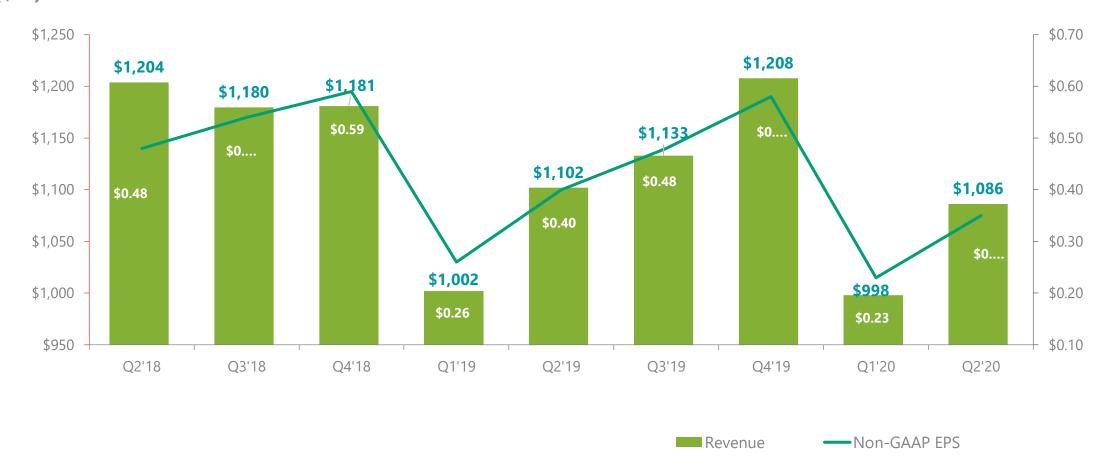
🙏 silver **peak**n

# Financials

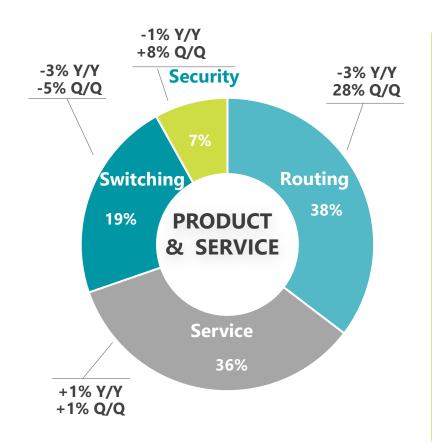


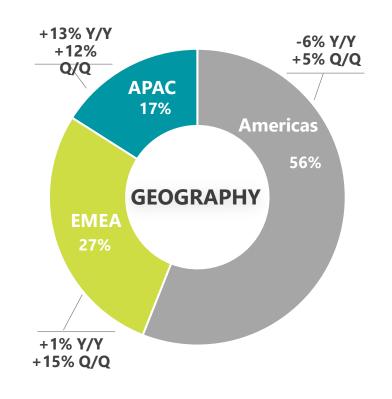
## **Quarterly Trended Results**

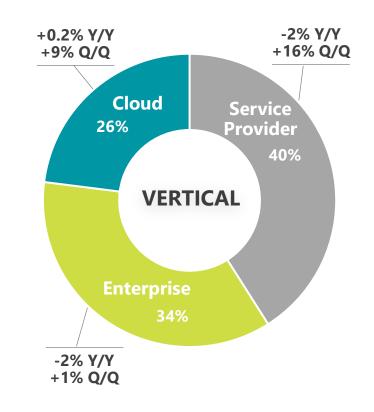
## Revenue (\$M) Non-GAAP EPS



## **Q2'20 Revenue Detail**







## 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)



							Sequential Year-over-Year		Y	YTD YTD-over-YTD		-YTD					
		Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	\$	%	\$	%	FY19	FY20	\$	%	FY17	FY18	FY19
	Total Cash and Investments <sup>(1)</sup>	2,875	2,827	2,544	2,530	2,570	40	2%	(305)	-11%					4,021	3,758	2,544
	Short- and Long-Term Debt	1,790	1,688	1,684	1,713	1,720	7	0%	(70)	-4%					2,136	2,139	1,684
	Net Cash and Investments	1,085	1,139	860	817	850	33	4%	(235)	-22%					1,885	1,619	860
8 = S	Onshore Cash and Investments %(2)	78%	79%	74%	80%	80%	0%	0%	2%	3%					9%	68%	74%
Balance Sheet	DSO (days) <sup>(3)</sup>	54	51	66	61	63	2	3%	9	17%					62	58	66
ш	Deferred Product Revenue	133	129	133	112	116	4	4%	(17)	-13%					334	144	133
	Deferred Service Revenue	1,068	990	1,091	1,143	1,095	(48)	-4%	27	3%					1,205	1,069	1,091
	Total Deferred Revenue	1,201	1,119	1,223	1,255	1,212	(43)	-3%	11	1%					1,539	1,214	1,223
	Operating Cash Flow	89	185	96	272	98	(174)	-64%	9	10%	248	370	122	49%	1,259	861	529
	Free Cash Flow	62	157	70	250	76	(174)	-69%	14	23%	193	326	133	69%	1,108	714	419
2 5	Capex	27	28	26	22	22	0	0%	(5)	-18%	55	44	(11)	-21%	151	147	110
ke ta	Dividends	66	65	64	66	66	0	0%	0	0%	132	132	0	0%	150	249	260
E E	Share Repurchases	300	50	200	200	0	(200)	-100%	(300)	-100%	300	200	(100)	-33%	720	750	550
Cash Flow and Capital Return	Total Capital Return	366	115	264	266	66	(200)	-75%	(300)	-82%	432	332	(100)	-23%	870	999	810
පී පී	Total Capital Return as % of FCF														79%	140%	193%
	Diluted Share Count	349	346	341	335	333	(2)	-1%	(16)	-5%					384	354	348
	Ending Outstanding Share Count	345	341	336	331	332	1	0%	(13)	-4%					365	346	336

## **APPENDIX – GAAP TO Non-GAAP Reconciliation**

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

								Th	ree	Months Ended	d						
		ne 30, 018	Septemb 201		Dec	ember 31, 2018		March 31, 2019		June 30, 2019	•	ember 30, 2019	Dec	ember 31, 2019	rch 31, 2020	June 202	e 30, 20
GAAP net income	\$	116.5	\$	223.8	\$	192.2	\$	31.1	\$	46.2	\$	99.3	\$	168.4	\$ 20.4	\$	61.2
Share-based compensation expense		56.6		53.2		36.9		33.9		55.7		57.5		55.1	42.0		44.0
Share-based payroll tax expense		0.6		0.4		0.4		4.7		0.7		0.3		0.4	4.0		0.6
Amortization of purchased intangible assets		4.3		4.4		4.3		4.9		9.9		9.9		9.9	9.9		9.4
Restructuring (benefits) charges		(0.2)		4.4		5.0		15.3		21.4		(1.1)		(0.3)	8.9		4.8
Acquisition and strategic investment related charges		-		-		4.3		10.2		4.3		2.4		1.0	1.3		2.1
Strategic partnership-related charges		1.2		0.9		1.0		8.0		-		-		-	-		-
Legal reserve and settlement (benefits) charges		_		12.0		_		_		-		(0.2)		-	-		-
Loss on equity investments		-		2.8		1.3		1.1		3.5		3.4		8.0	1.5		(2.5)
Loss on extinguishment of debt		_		-		_		_		_		15.3		_	_		-
Estimated tax expense from income tax reform		-		-		3.2		-		-		-		-	-		_
Recognition of previously unrecognized tax benefits		-		(67.6)		(5.4)		_		-		-		(25.4)	-		-
Reduction of expected tax liabilities from tax accounting method change		_		(33.2)		(26.7)		_		_		_		_	_		_
Income tax effect of non-GAAP exclusions		(8.8)		(10.1)		(10.8)		(9.3)		(2.2)		(20.2)		(11.2)	(10.8)		(3.3)
Non-GAAP net income	\$	170.2	\$	191.0	\$	205.7	\$	92.7	\$	139.5	\$	166.6	\$	198.7	\$ 77.2	\$	116.3
GAAP diluted net income per share	\$	0.33	S	0.64	\$	0.55	S	0.09	\$	0.13	S	0.29	\$	0.49	\$ 0.06	S	0.18
Non-GAAP diluted net income per share	S	0.48	\$	0.54	\$	0.59	\$	0.26	\$	0.40	S	0.48	\$	0.58	\$ 0.23	\$	0.35
Shares used in computing GAAP diluted net income per share		351.3		350.5		350.8		352.7		349.1		345.5		340.8	335.1		333.1
Shares used in computing Non-GAAP diluted net income per share		351.3		350.5		350.8		352.7		349.1		345.5		340.8	335.1		333.1

## **Cash Flow**

(In millions) (Unaudited)

	Three Months Ended													
		e 30,	Sept	ember 30,		mber 31,		rch 31,	Jı	une 30,				
	20	019		2019		2019		2020	2020					
Operating cash flow	\$	88.8	S	185.0	\$	95.7	\$	272.2	\$	97.6				
Capital expenditures		27.3		28.3		26.1		21.8		22.0				
Free cash flow	\$	61.5	\$	156.7	\$	69.6	\$	250.4	\$	75.6				

		Twelve Months Ended									
	De		mber 31, 2017		mber 31, 2018	December 31, 2019					
Operating cash flow	\$	;	1,259.3	\$	861.1	\$	528.9				
Capital expenditures			151.2		147.4		109.6				
Free cash flow	\$	;	1,108.1	\$	713.7	\$	419.3				

