

Dell Networking: **Change your network, activate your business**

Name
Title



#DellST14



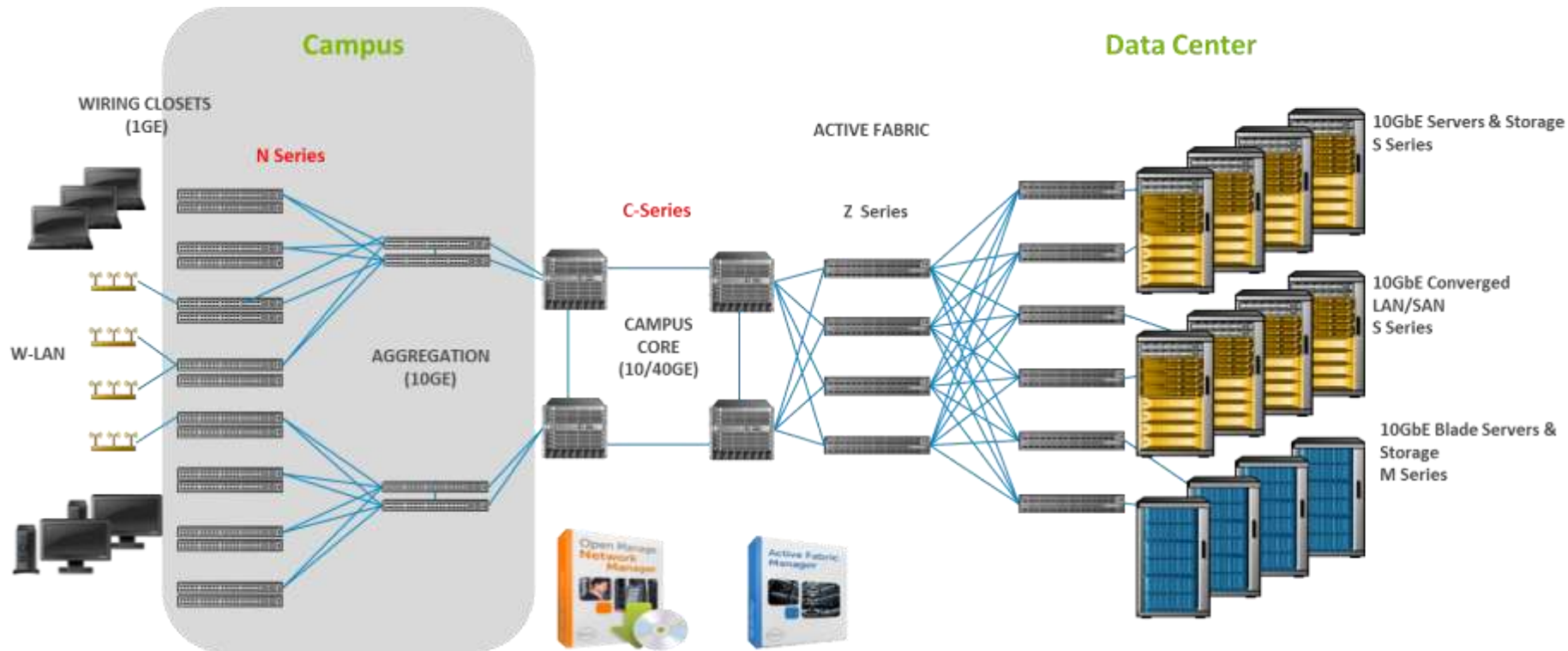
Networking Industry Trends ...

1. Bandwidth needs continue to grow from data center to desktop to mobile device
2. Virtualization and new workloads changing data center traffic patterns and creating new bottlenecks
3. Explosion of mobile devices and multimedia rewriting the laws of campus networking for good

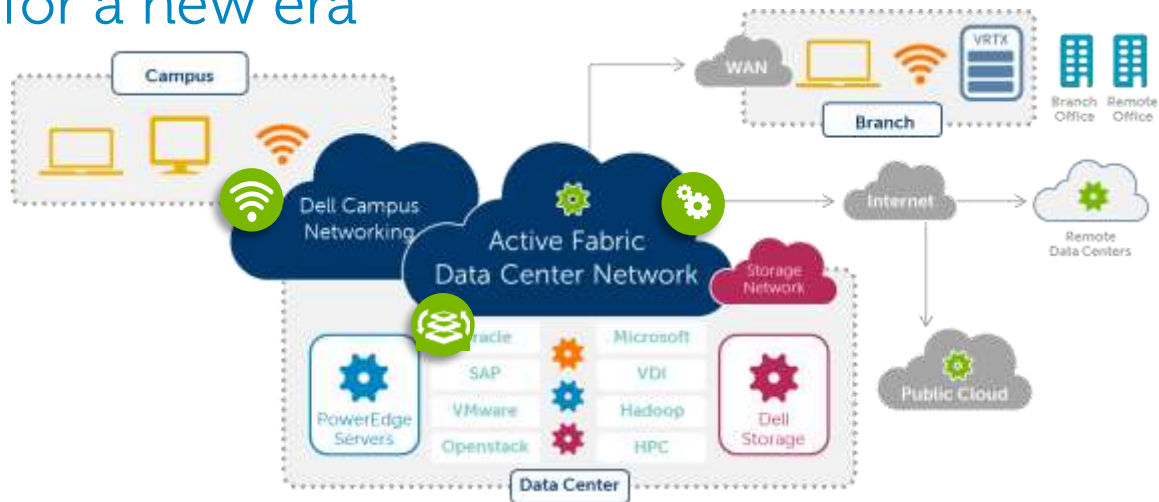
**... creating opportunities
for innovation**



Dell Networking end-to-end



New solutions for a new era



In-rack solutions for the data center



Transform your data center with high performance 10/40GbE Ethernet platforms

Fabric solutions for the data center



Optimize architectures for east-west traffic & SDN initiatives

Wired/wireless solutions for the campus



Enable more devices and multimedia, less presence, and more remote capabilities

Dell Networking Strategy

1

Harness 10GbE and 40GbE switching technologies to connect, consolidate and converge in-rack server and storage elements

2

Develop high-performance, automated data center fabric solutions to accelerate east-west traffic and lower cost structures

3

Connect end users and end-points with secure wireless and wired solutions optimized for device mobility and multimedia

Superior customer benefit

- **Maximum efficiency**—Save money, conserve space and reduce power consumption
- **Faster results**—Scale up, down and out on your terms easily and economically
- **Reliable operation**—Get results you expect when you expect them

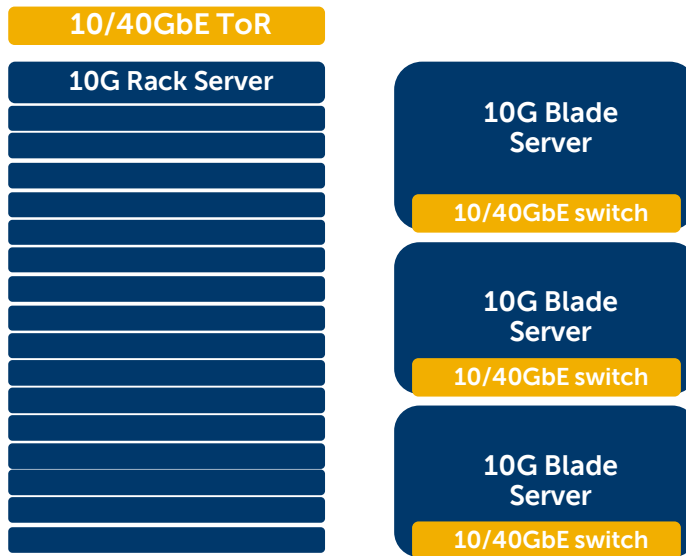
...Modernize and transform
your network on your terms



1

Transform the data center with 10/40GbE Ethernet platforms

Harness 10GbE and 40GbE switching technologies to connect, consolidate and converge in-rack server and storage elements

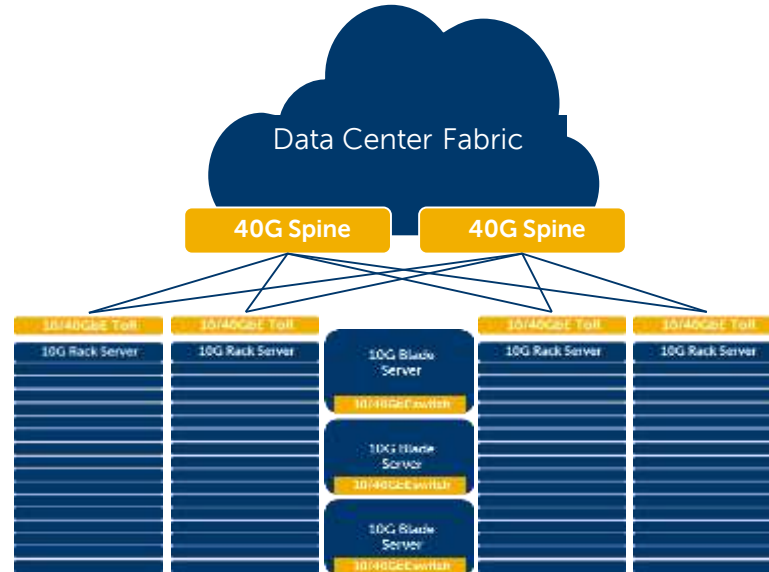


- **Connect** servers and storage at 10GbE to boost performance
- **Consolidate** server I/O, simplify cabling and operations
- **Converge** LAN/SAN resources with DCB-enabled Ethernet

2

Optimize data center infrastructure for east-west traffic & SDN initiatives

Develop high-performance, automated data center fabric solutions to accelerate east-west traffic and lower cost structures

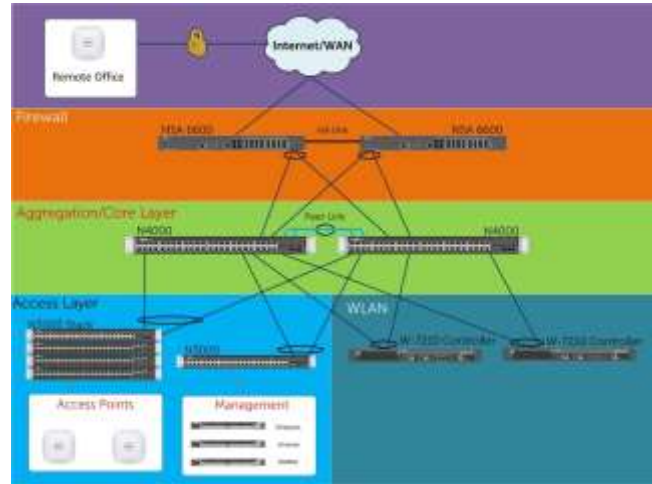


- **Scale-out performance** to address growing inter-rack traffic
- **Lower costs** utilizing fixed form-factor fabric switches
- **Simple operation** with software that automates deployments
- **Open Networking** for customer choice

3

Power the campus with solutions optimized for the mobile workforce

Connect end-users and end-points with secure wireless and wired solutions optimized for device mobility and multimedia



- **Ultimate mobility** with complete lineup of 802.11ac
- **Ultimate efficiency** with state-of-the-art energy-efficient 1/10GbE switches
- **Ultimate flexibility** with fully-redundant, fully-modular systems

Unlocking networking for innovation

2011

Data center chassis bottleneck

- ✓ **Active Fabric**
- ✓ **Open Automation Framework**

2012

In-rack east-west traffic optimization

- ✓ **MXL/IOA for M1000e**
- Simplified fabric management
- ✓ **Active Fabric Manager**

2013

Network programmability

- ✓ **SDN – a choice**
- In-rack convergence
- ✓ **S5000/S6000 ToRs**
- Enterprise mobility
- ✓ **Campus & wireless refresh**

2014

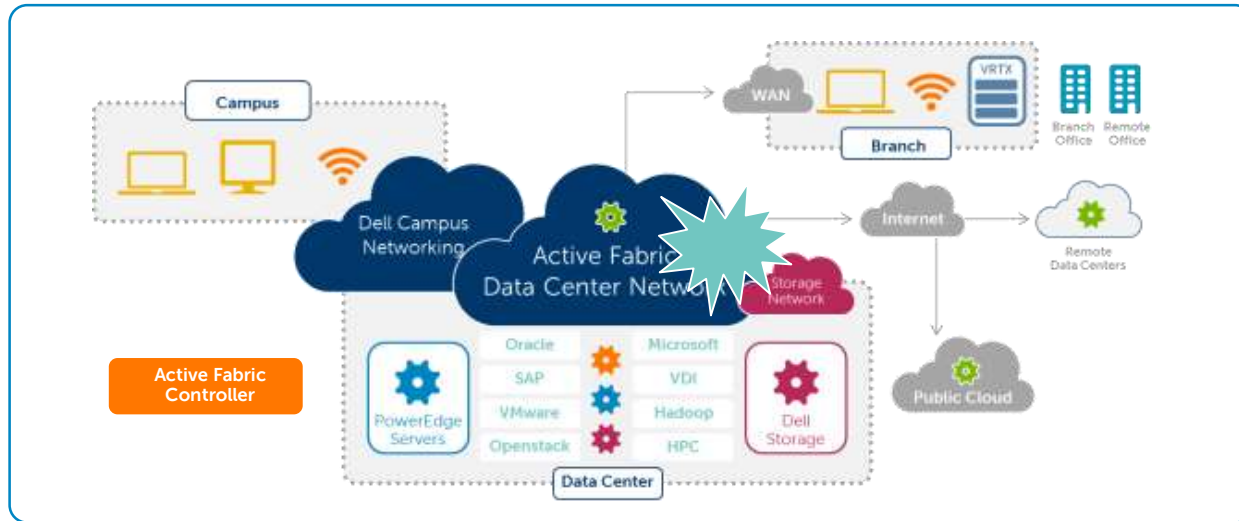
Lock-in / lack of choice

- ✓ **Open Networking**

Today

Next-generation performance & manageability for cloud data centers

- ✓ **Z9500 Fabric Switch**
- ✓ **Active Fabric Controller**



Dell Networking product portfolio

Campus & Data Center Chassis Switches



Core Fabric Switches



Blade I/O



Fabric & Access Switches



Wireless & BYOD



Controllers & Access Points



Instant access Points w/ built-in controller

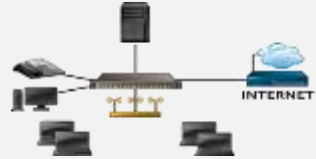


Guest access and BYOD



Reference architectures for any network

SOHO



End-user networking

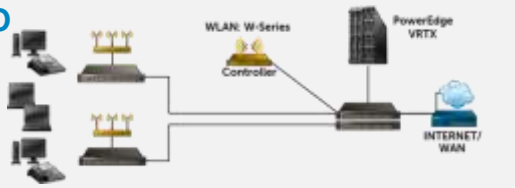
10s
End-users

Data center networking

10s-100s
Server/VMs

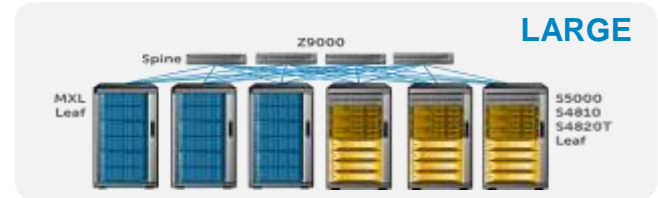


ROBO



100-1000s
End-users

1000s
Server/VMs

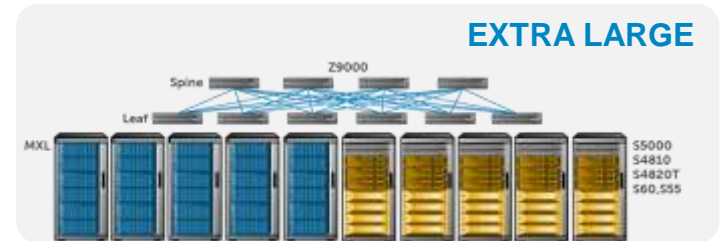


CAMPUS



1000s+
End-users

1000s+
Server/VMs



Unlocking networking for innovation

IT Pro gives the Dell S4820T high marks, award

Dell S4820T earns 5/5 stars,
IT Pro Innovation Award



Awarded 5 stars from IT Pro, Dell's N4032 campus switches reduced costs for 10GbE upgrades.



"Affordable server and storage migration route to copper 10GbE"



特別賞



Dell Networking S5000



INTEROP | Awards

Miercom Performance Award
S6000 & Z9500

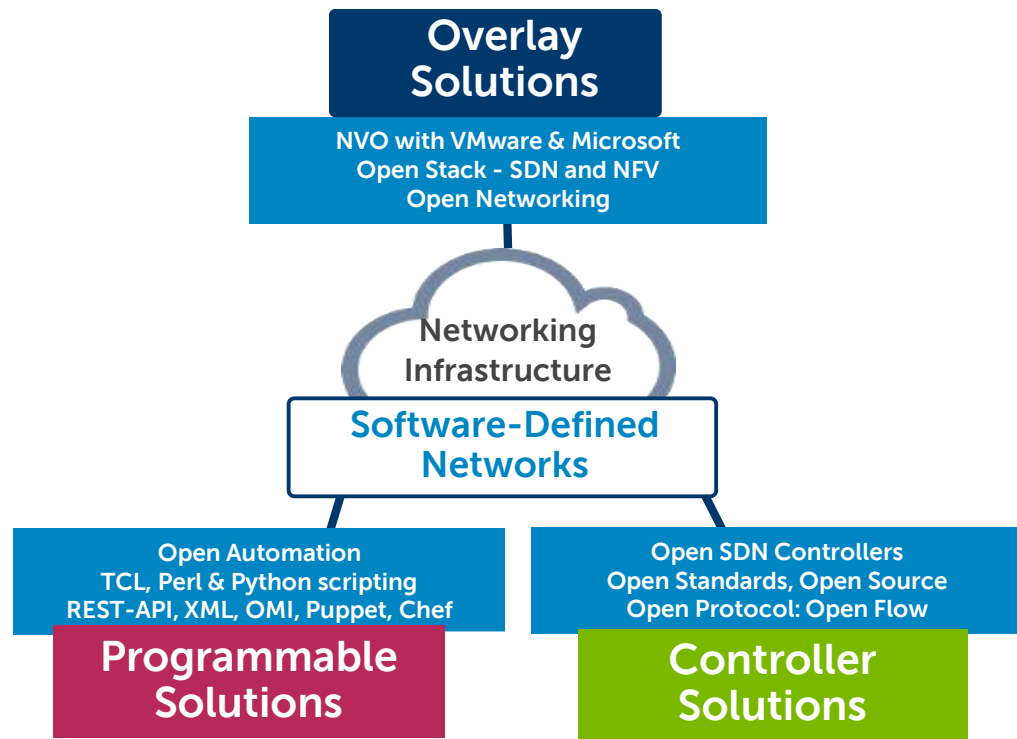
We pay for the testing, but we must achieve specific performance thresholds to be awarded the Performance Award!

Robert Smithers, Miercom CEO
presenting the award on the floor at Interop



Choice of SDN approach delivers a comprehensive SDN Strategy

Open Standards, Open Protocols, Open Source



Hypervisor-based

- Hypervisor-agnostic solutions for network virtualization and network function virtualization

Controller-based

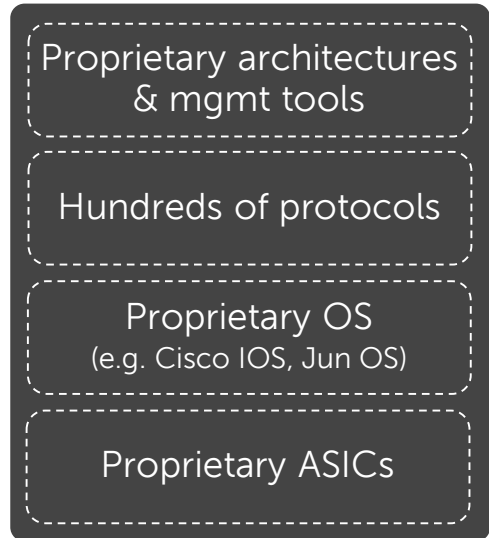
- OpenFlow solutions based on open standards and open source innovations

Programmatic management

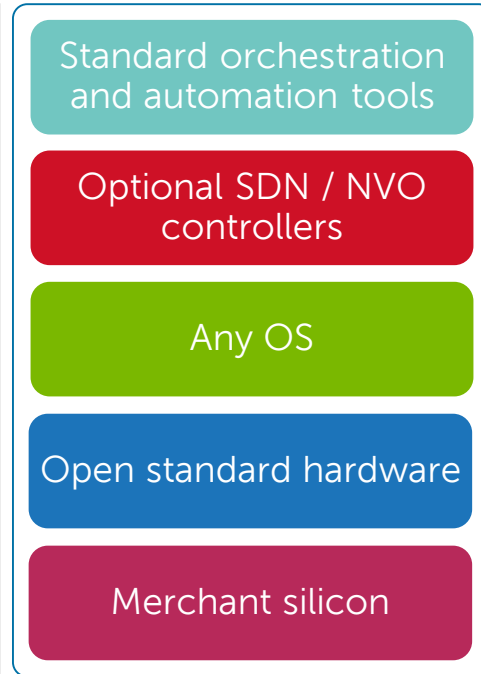
- Legacy programmability using standard management interfaces and scripting languages

Dell—Fueling the **Open Networking** revolution

Traditional Networking



The Future of Networking



Engineering choice—software-defined **networking**

Programmatic solutions



Virtualization/ cloud-oriented



Controller solutions



• Enterprise-class infrastructure

Dell Open Networking

• Global services and support



Dell Networking customer wins



Web2.0 & E-commerce

myYearbook

ehay ESPN salesforce.com

Alibaba.com 推特

ancestry.com

YAHOO! zynga

eHarmony

facebook

twitter

Reed Elsevier Microsoft



Services & Service Providers

Telefonica

verizon

Level(3)

bharti

TATA

Cablemás

BT

ALTECH KPI

READYSPACE Cloud and Managed Hosting

OptiNet Syniverse



Healthcare & Life Sciences

UCSF

Institute for Human Genetics

Deutsches Rotes Kreuz

Weston Area Health NHS Trust

DELTA DENTAL

TGEN

NewYork-Presbyterian

School of Medicine University of Missouri Health System

UF UNIVERSITY OF FLORIDA



Education

DHM | RI

BURGARNI AMERICAN SCHOOL

PIMBINA TRAILS SCHOOL DIVISION

MARINO

Cornell University Center for Advanced Computing

CITY AND ISLINGTON COLLEGE

KIT

TACC



Business

ERNST & YOUNG Quality in Everything We Do

ExxonMobil

WalmartLabs

Honeywell

DOW JONES

the cosmopolitan RESORT CASINO

ConocoPhillips P&G

NYSE Euronext HONDA

NYSE Euronext



Government

Copeland

TAMAULIPAS

GARLAND

Kase Airports Authority

MAMPU

KLIA NEXT GEN

centralink

TEXAS LOTTERY

Wright-Patterson Air Force Base



Customer success - EMEA



Web 2.0 & E-commerce



Services & Service Providers



Healthcare & Life Sciences



Education & Government



Business



Manufacturing



Dell Networking — Transforming the Enterprise

CY13: ~3x the market*

WW	Dell	Market*
Data Center	17%	3%
Campus	9%	6%
TOTAL	16%	5%

Market Share Growth*

#3 in 40 GbE switching, outgrew market

#3 in blade switching (10G), fastest growth in the industry

#2 in 10G Base-T switching (Server attach)

Innovation & thought leadership

- **Open Networking & Software Defined** - Only IT vendor to provide a choice of OS & a migration path to SDN
- **Industry leading Platforms for Fabrics & converged racks** Solutions architected for new IT - industry recognition on ALL new data center platforms announced in 2013 & 2014!
- **Mobile Enterprise**—Complete refresh of wired, wireless & chassis switching for the modern campus



24,000

new customers CY13



15+

End-to-End Solutions
(Pan Dell & Enterprise)



**Market-beating
Growth (3X)**

3M+ 10G Ports shipped
1M+ 10G ports in CY13





Let's get started



#DellST14

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