

Calix 2016 Investor Day

March 16, 2016

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Disclosure

This presentation includes forward-looking statements that are based upon management's current expectations and are inherently uncertain. Forward-looking statements are based upon information available to us as of the date of this release, and we assume no obligation to revise or update any such forward-looking statement to reflect any event or circumstance after the date of this release, except as required by law. Such forward-looking statements may include words such as "expect," "anticipate," "intend," "believe," "estimate," "plan," "target," "strategy," "continue," "may," "will," "should," variations of such words, or other words and terms of similar meaning. Actual results and the timing of events could differ materially from current expectations based on risks and uncertainties affecting Calix's business. The reader is cautioned not to rely on the forward-looking statements contained in this press release. Additional information on potential factors that could affect Calix's results and other risks and uncertainties are detailed in its reports on Form 10-Q for the third fiscal quarter of 2015 and Annual Report on Form 10-K for the fiscal year 2015, filed with the SEC and available at www.sec.gov. While today's presentation may include forward-looking statements, we are specifically not providing any update to the financial guidance given in our last quarterly conference call on February 9, 2016.

Today's agenda

Time	Title	Speaker
1:00 - 1:05 PM	Welcome	Thomas J. Dinges, CFA – Director, Investor Relations
1:05 - 1:45 PM	Calix Opportunity	Carl Russo - President and Chief Executive Officer
1:45 - 2:30 PM	Platform Development	Michel Langlois – Senior Vice President, Systems Products Shane Eleniak – Vice President, Product Line Leadership
2:30 - 2:45 PM	Break	
2:45 - 3:15 PM	Customer Engagement	John Colvin - Senior Vice President, North American Sales
3:15 - 3:45 PM	Solutions Positioning	David Seda – Vice President, Marketing
3:45 - 4:00 PM	Break	
4:00 - 4:30 PM	Financial Overview	William Atkins – Executive Vice President and Chief Financial Officer
4:30 - 5:00 PM	Wrap-up, Q&A	Calix Management
5:00 - 6:30 PM	Reception	Calix Management and attendees

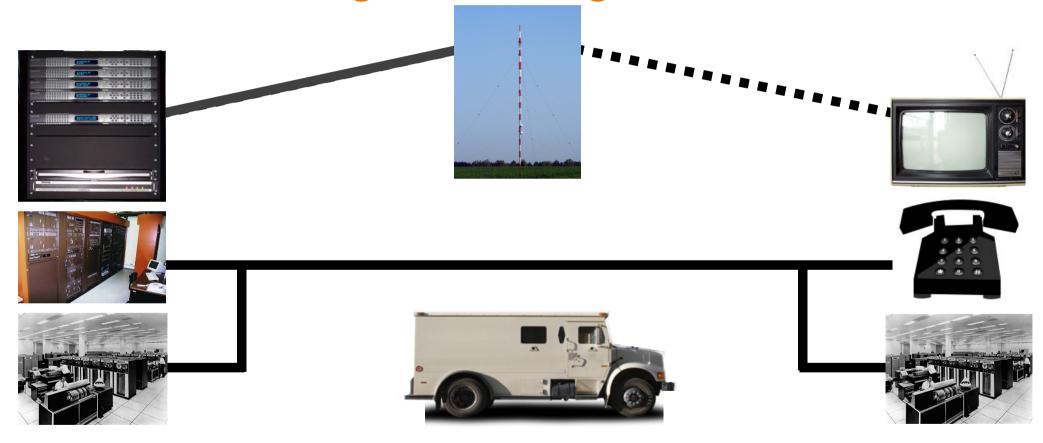
Carl Russo

President and Chief Executive Officer

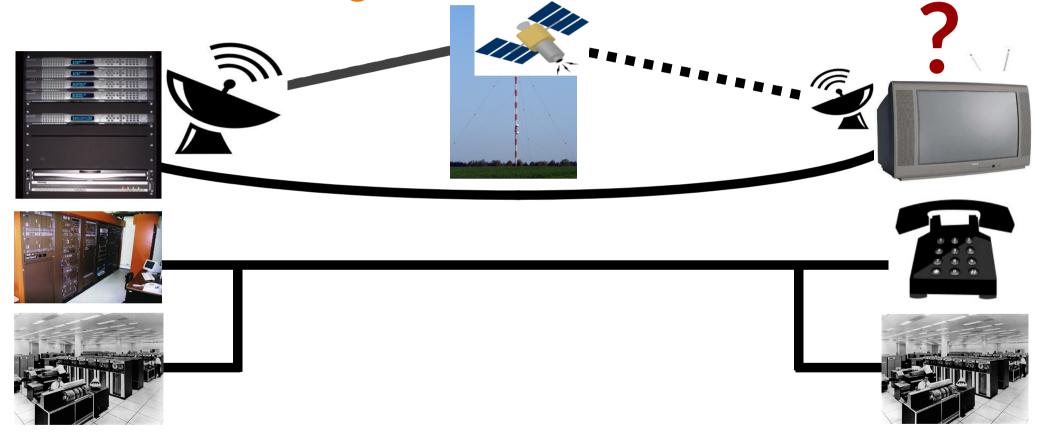
Networks - 6 Decades of History

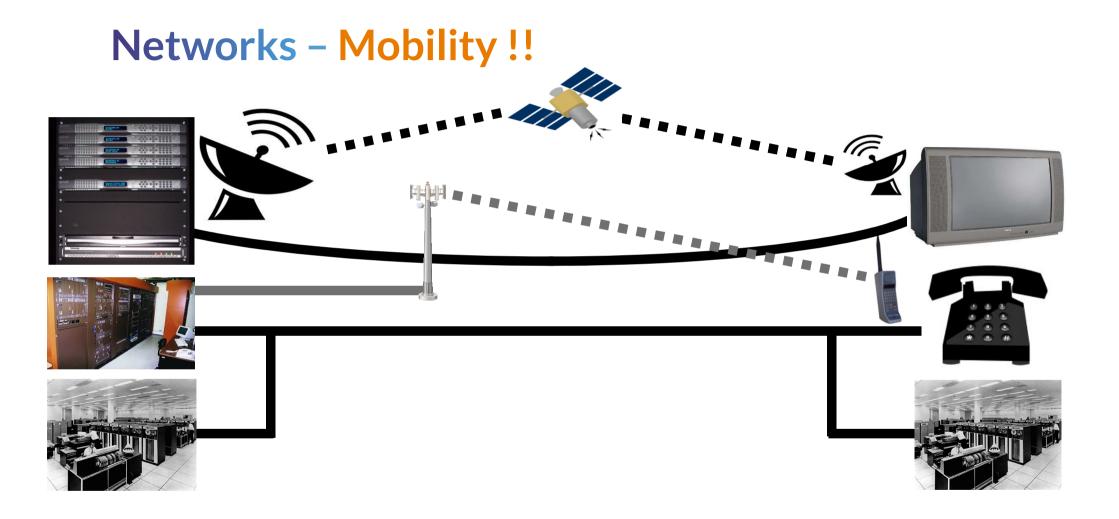


Networks - Digitization Begins

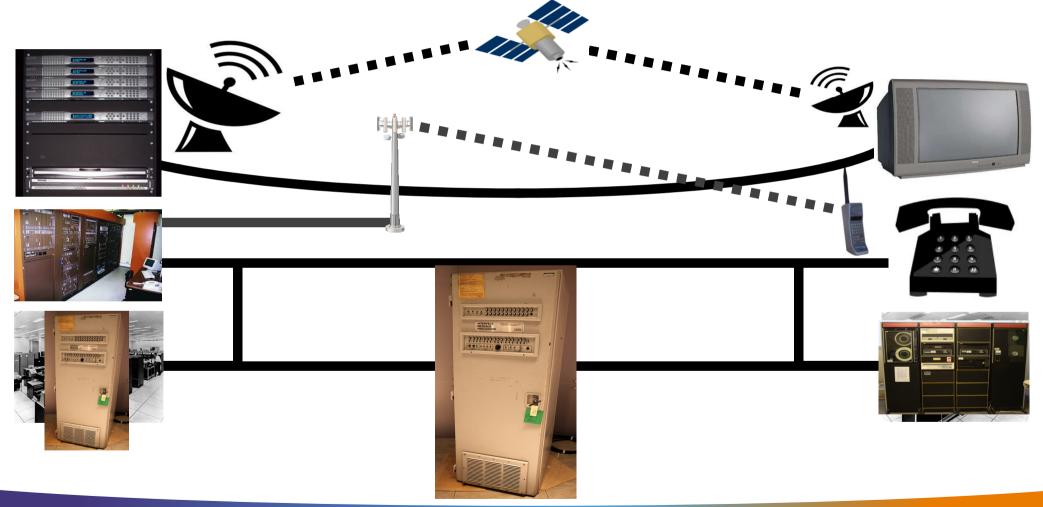


Networks - Digitization Continues

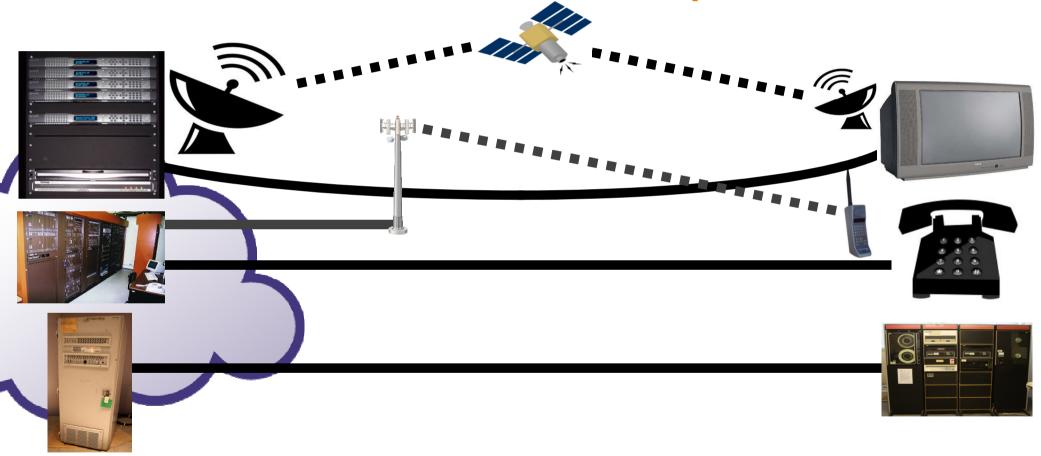




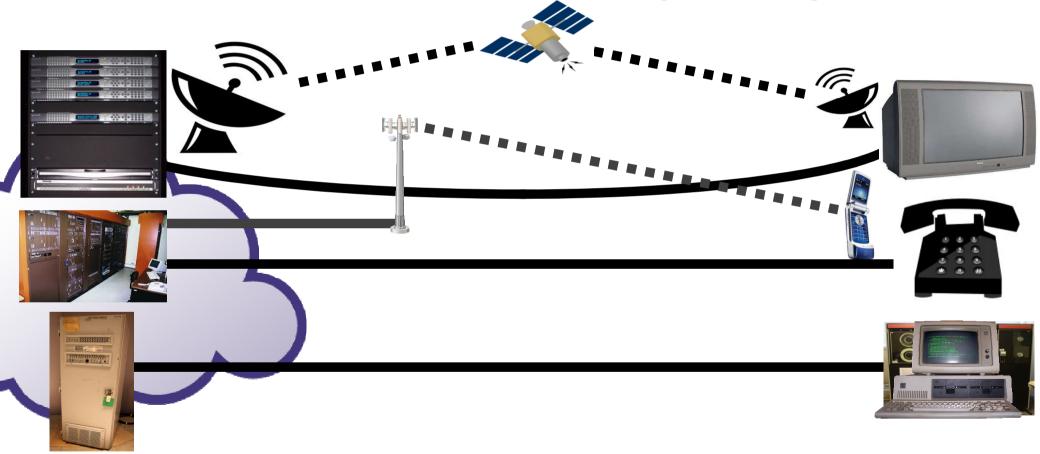
Networks - The Internet Begins



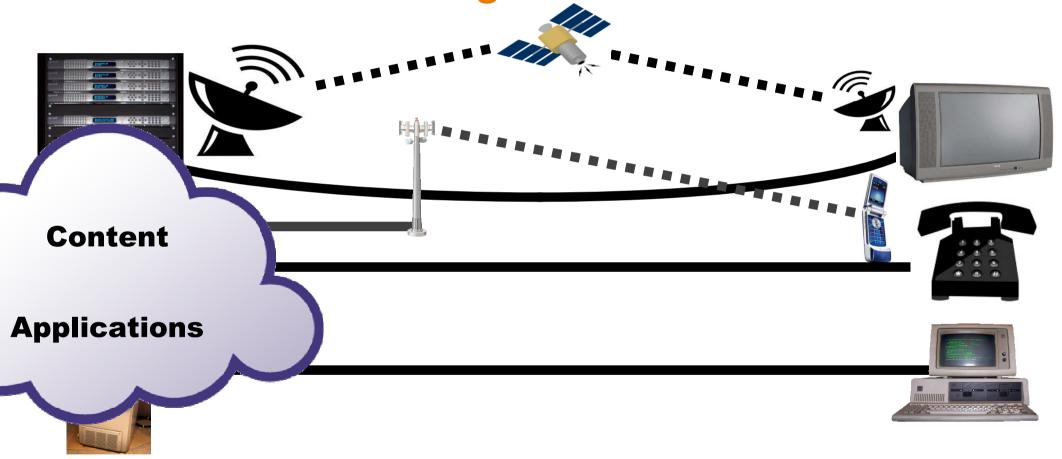
Networks - IP Invades and Disrupts



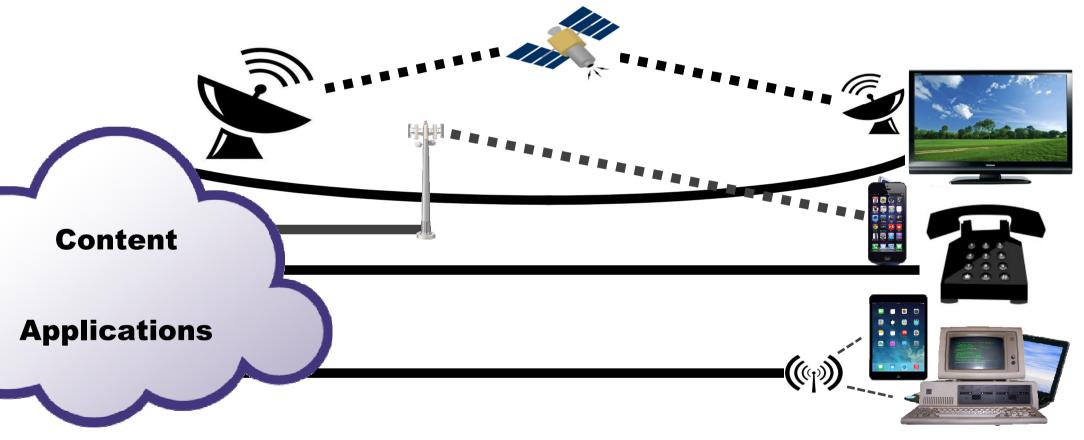
Networks - Device Evolution Speeds Up



Networks - Data Migrates



Networks - Devices Evolve FASTER!!!



Networks - TWO Irresistible Forces



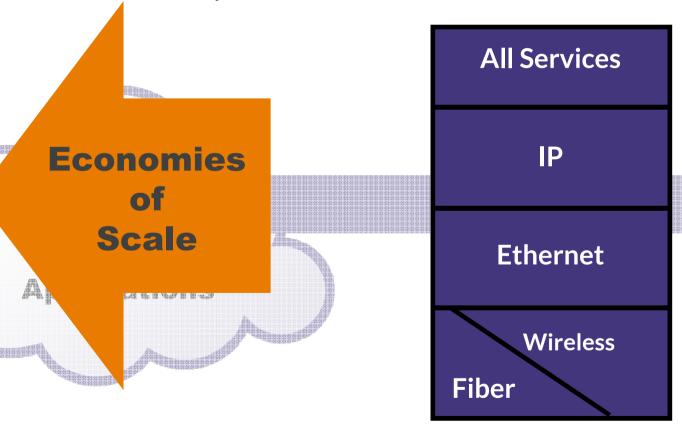
Networks - TWO Irresistible Forces

One Simple Unified Access Infrastructure



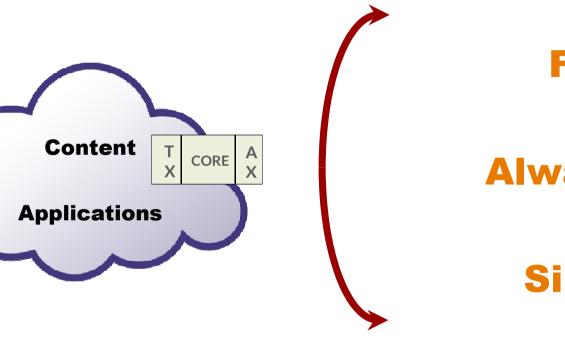
Networks - TWO Irresistible Forces

One Simple Unified Access Infrastructure





Access Network



Fast

Always On

Simple



A Platform rEvolution!

In 2011 we looked to the clouds

New Tools ... New Techniques ... New Opportunity



In 2011 we looked to the clouds

New Tools ... New Techniques ... New Opportunity

The Power of DevOPS

- Launched 500 major new features and services Cebook
- In one year





Data Center Innovations

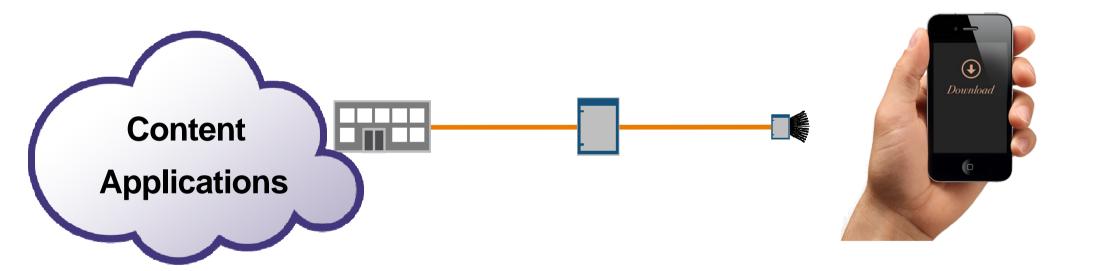


- ◀ Linux / Open Source
- **◄** Virtualized Functions
- Containers
- Portability
- Software Defined

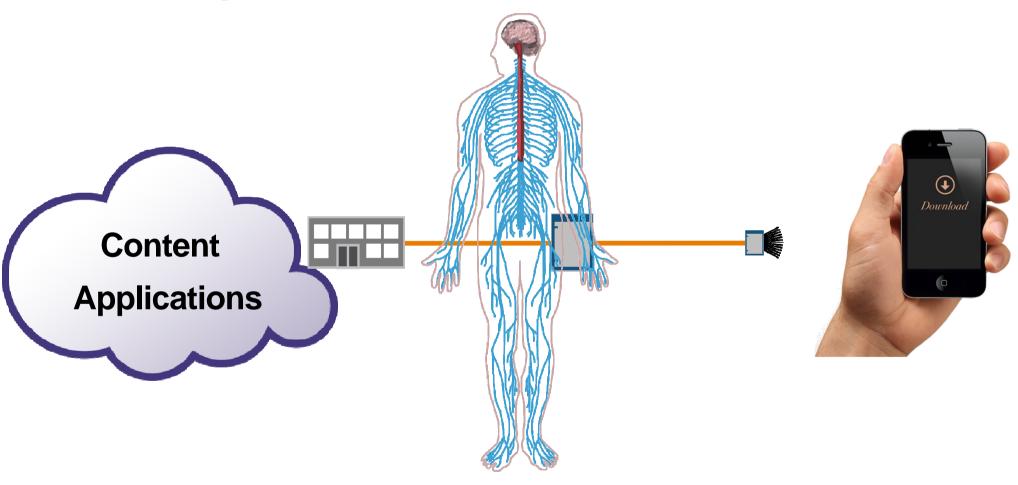
Data Center Innovations What Works in Access?



A metaphor

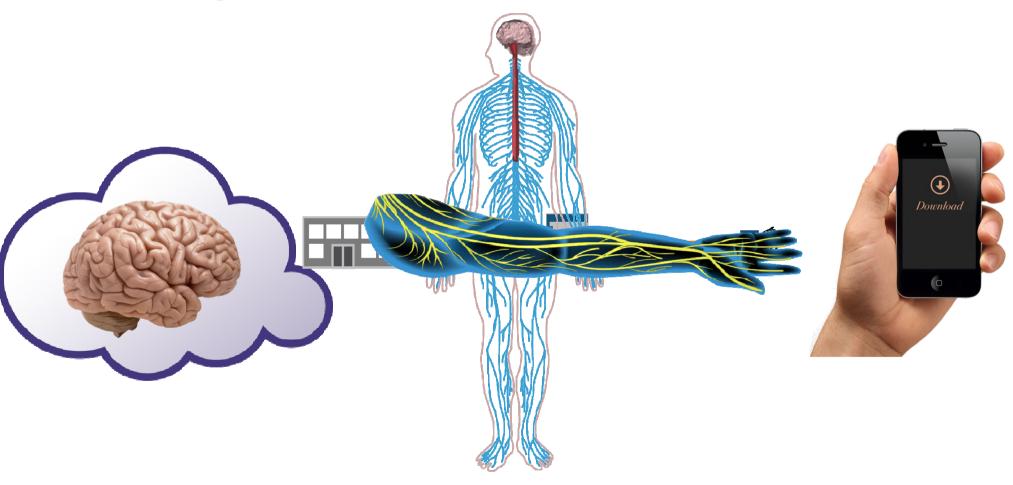


A metaphor



S(

A metaphor



S(1)

What's needed to complete the metaphor?

S oftware

Defined

Access

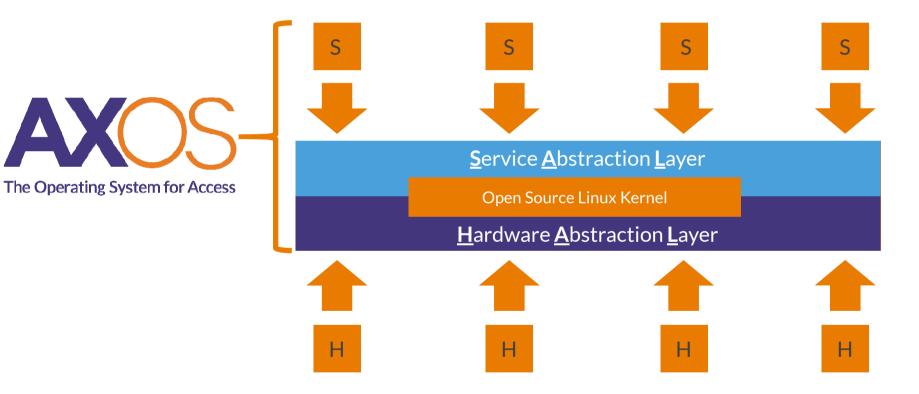
Introducing...



How is it built?

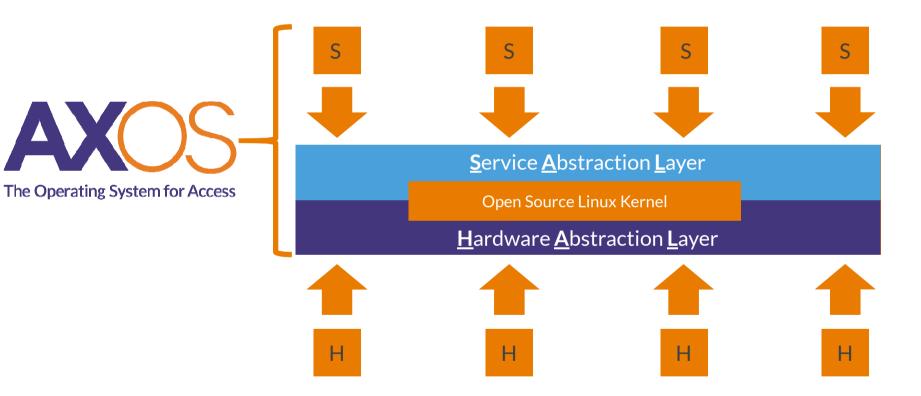
Open Source Linux Kernel

How is it built?



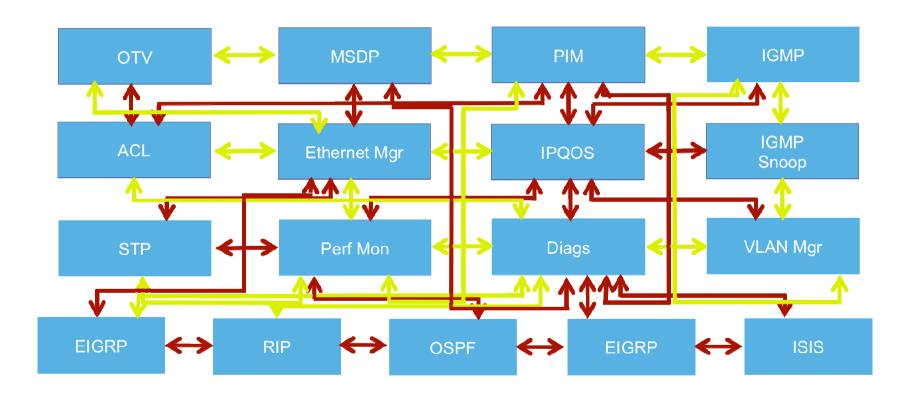
24

How is it different from a monolithic system?



24

How is it different from a monolithic system?



Way different!

User Interface Layer	REST	SNMP	NETCONF / YANG	CLI		
Policy and Management Layer	License & Platform Profile Manager	PON Manager	Performance Monitoring	Audit	VNF Hypervisor	
	QoS Manager	Policy Discovery Manager	Platform Configuration and Upgrade	Diagnostics		
Protocol and Services Layer	OAM	Timing	Layer 3 Protocols	Host Services	future	
	Topology & Discovery Protocols	Multi-service Control Protocols	Multicast Protocols	HQoS, Traffic Management	future	
Protocol Framework Layer	Ethernet Interface Manager	DSL Interface Manager	L2 Forwarding DB Manager	Flow Manager	VLAN Manager	
	PON Interface Manager	Multicast Resource Manager	L3 RIB Manager	MPLS DB Manager	future	
Infrastructure Layer	Service Abstraction Layer					
	Hardware Abstraction Layer					



Accelerate Time to Revenue



Fast

Eliminate Service Disruptions



Always On

Reduce Operational Complexity



Simple

Michel Langlois

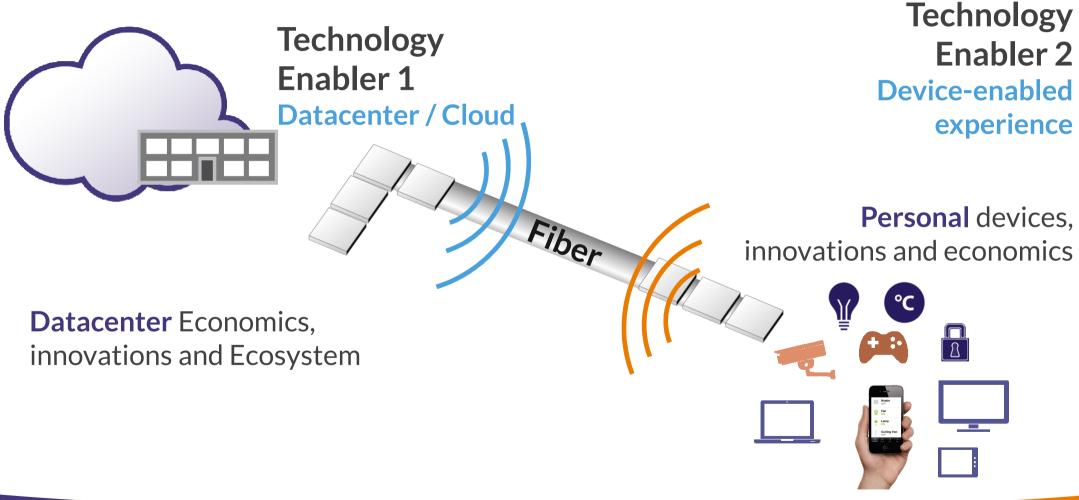
Senior Vice President, Systems Products

Agenda

- 1 Macro drivers: Systems product strategy
- 2 Key tenets: AXOS strategy
- 3 Calix: Driving the network transformation
- 4 Why Calix?

Macro drivers: Systems product strategy

Influence of datacenter and device ecosystem



C

Calix strategic axes

Business Imperatives

- Cloud-based service model
- TCO reduction
- Elastic pool

End of Access

as you know it...

- Unified Access
- Elimination of constraints of reach, speed, costs



Customer Experience

- Analytics and instrumentation
- Unmatched Wi-Fi performance
- Transparent gigabit experience

Network Transformation

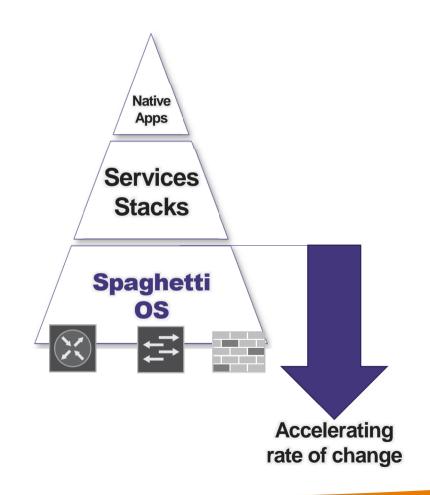
- Fiber evolution
- Copper evolution
- Wireless (Wi-Fi + 5G)
- SDN/NFV integration

Key tenets: AXOS strategy

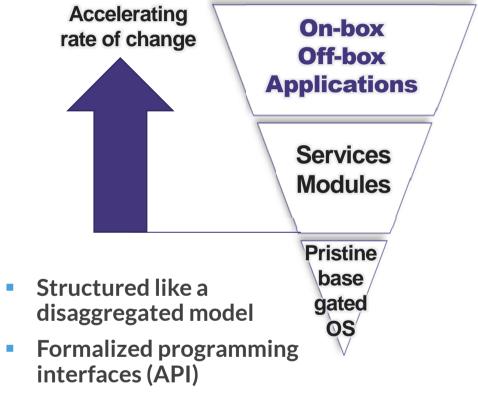
The past: Tightly-coupled networking software

Typical NOS Architecture

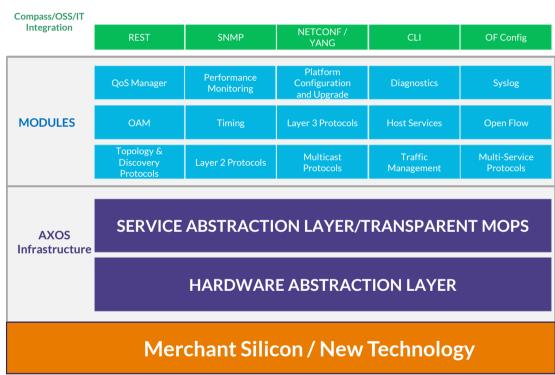
- Application enhancements require frequent base code changes
- No formalized programming interfaces (APIs)
- Private/Proprietary kernel Extension
- Large diverse systems with opposite needs
- Stateless modules
- No object model
- Deep integration with ASIC/Silicon



AXOS software platform architecture goal



 AXOS isolated from physical layer











The emergence of AXOS

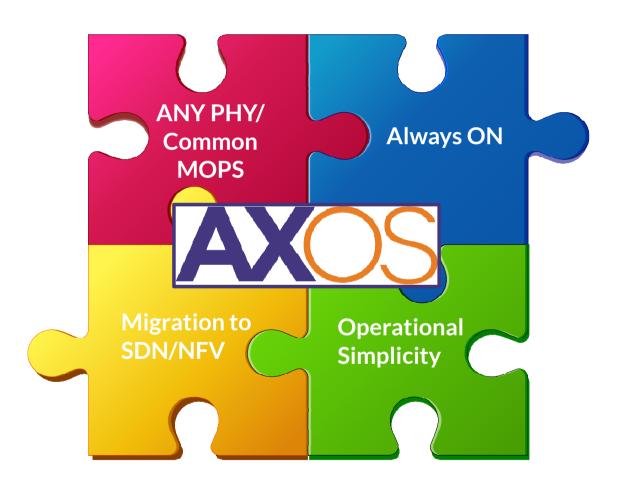
CLI

Decades of network/OS evolution and four years of Calix investment Modular, Component based OS for State Access oriented (Linux Based) Linux Switch OS for Modular Monolithic launches **Data Center Router OS** Router OS **GPL** (Linux Based) **ARISTA** Cisco IOS® SOFTWARE 1981 1991 2001 2004 2005 2008 2011 2015 MS-DOS, PC IOS, first Junos & **IOS-XR** Linux Α **AXOS AXOS** reference multi-**XML** for CRS launches specialized investment launch: First Design protocol Routers & **NOS** for begins, first unified **GPL** routing data center modular/ access NOS+ license switches Open operating

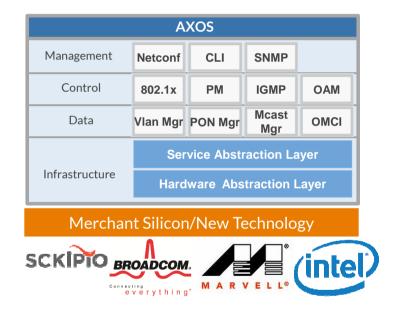
system"

OS

Why is AXOS different?

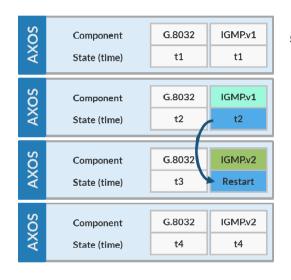


Any PHY



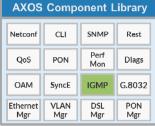
Deliver new products faster

Always On



Stateful restart of upgraded Component IGMP

No impact to other Component

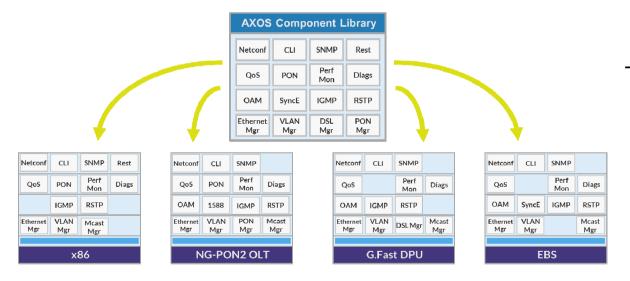


- Modular software components, upgraded independently
- Data plane decoupled from control and management planes

"Stateful" with modular containment for service restarts

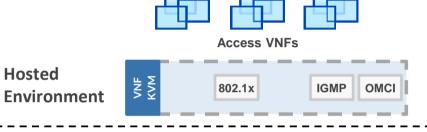
Operational simplicity

- Common YANG models across portfolio
- Consistent customer experience
- Transparent MOPS across portfolio

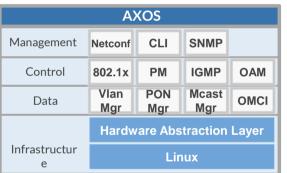


Reduce total cost of ownership

Migration on/off box



Embedded System



Integrated, distributed, virtualized

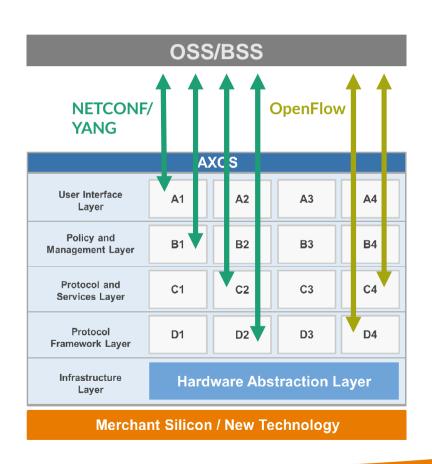
AXOS brings an innovative path to SDN/NFV

Adaptors for legacy OSS/BSS integration

- Support legacy OSS Interfaces (TL1, XML)
- Support new markets (OLC)

Native SDN support

- Support multi-vendor, multi-domain, and open frameworks
 - Netconf / YANG
 - Openflow
 - ODL/ONOS support
 - SDN Controller Partners
- YANG model development
 - Ease of migration (GPON)
 - Standards (BBF)



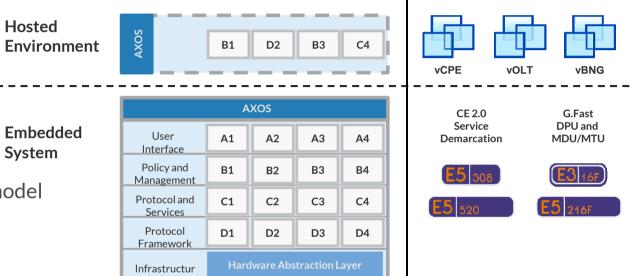
Our AXOS architecture is extensible

Evolution to NFV

- AXOS portability
 - Evolution from onbox to x86
- vOLT/vBNG tenant apps
 - Increase value proposition
 - New revenue opportunities
- vNID evolution
 - Drive a new commercial services model
- vCPE evolution
 - Balance data center and CPE ecosystems

Role of the data center

- NFV ecosystem partners
- Native x86 compute



AXOS platform power

VENDOR



SPEED

- Solve a hard problem once
- Reuse successful components
- Leverage silicon innovation
- Can integrate Open Source value

PARTNERS



INTEGRATION

- Tighter integration
- Broader opportunities
- Round out the portfolio
- Solution
 Ecosystem
 versus larger
 vendors

SERVICE PROVIDER



TCO

- Predictability
- Workflow Simplicity
- Extensibility (investment protection)
- Carrier class uptime
- Reduce OPEX

CONSUMER



EXPERIENCE

- Fast service activation
- Always ON network
- Device centric experience

Shane Eleniak

Vice President, Product Line Leadership

Driving Network Transformation

Macro Trends

The SDN market could hit \$18B by 2018

Market

Internet of Things Market to Reach \$1.7 Trillion by 2020: IDC

AT&T launches Supplier Domain Program 2.0

Tuesday 24 September 2013 | 11:36 CET | News

NEV Market to Grow More than 5-Fold Through 2019, Says IHS

Access Technologies

PON is the leading FTTx architecture*

G.fast, VDSL gain market share in broadband CPE market, says research firm **

July 28, 2015 | By Sean Buckley

Next Generation FTTP Standard, NG-PON2, Begins to Emerge

7/17/12 at 2:56 PM by Bernie Arnason

* Ovum ** IHS Infonetics

Competition

Nokia is buying Alcatel-Lucent for \$16.6 billion

Arris to lay off 10% of its global workforce

FEBRUARY 23, 2016 20.44 EUROPE/LONDON BY ROBERT BRIEL

The

Chinese multinationals

Economist Who's afraid of Huawei?

What does this mean for Calix?

Alignment between four key areas:

Aggressive competition:

Own the subscriber experience across all markets

Displacement of incumbency:

OSS / IT Integration facilitated by SDN / NFV

New Access Equipment purchasing cycle:

Technology disruptions – G.fast, NGPON2, IoT, Managed Service Point

Convergence of access architectures:

Wireline | Cable | Wireless

Intelligent Service edges

+

Transparent access and the gigabit experience



Managed Service Point



Creating an unmatched quality of experience

Carrier Class

Unmatched performance and reliability

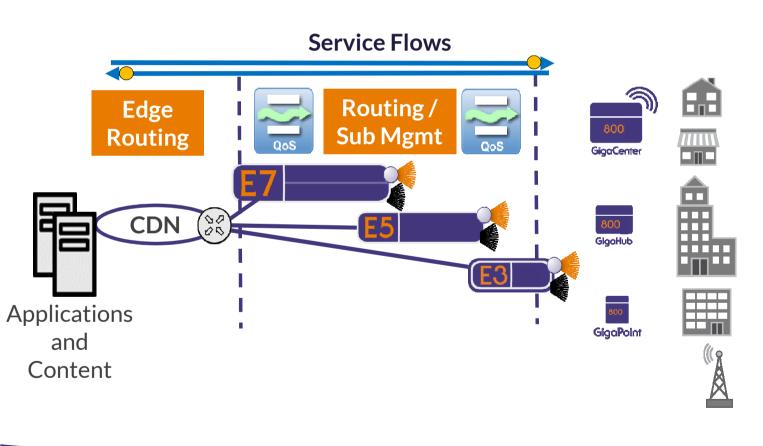
Analytics

- Visibility into customer experience
- Wi-Fi performance, service flows, QoS and object tags

Instrumentation and control

Change the network based on analytic intelligence

Increase access network intelligence



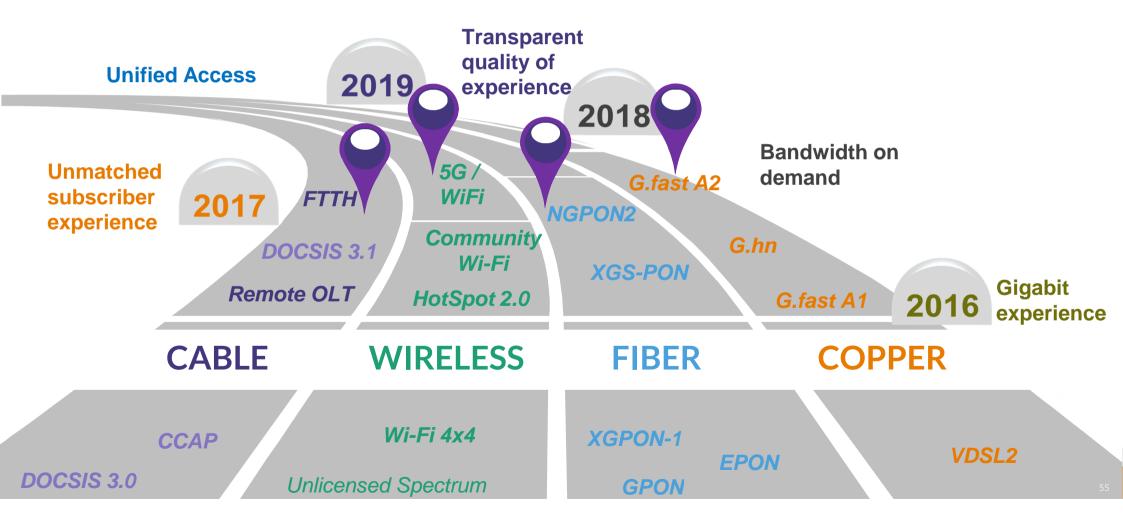
Service flow awareness

- Basis for instrumentation and analytics
- Enable a flow-based service model

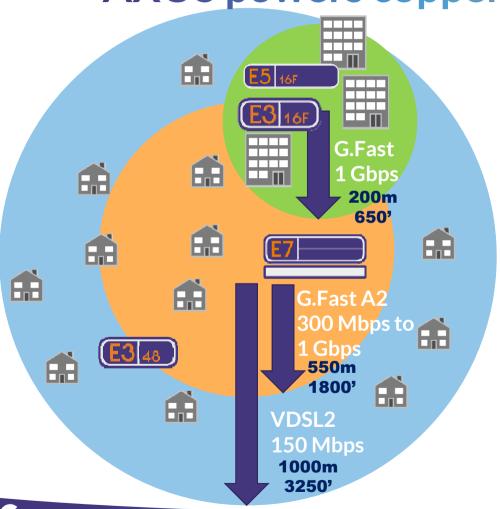
Routing protocols

- Support consolidation of the services edge
- Enable Subscriber Management

Network transformation



AXOS powers copper transformation



Best-of-breed copper technologies

 System level vectored and bonded VDSI 2

A gigabit experience over copper

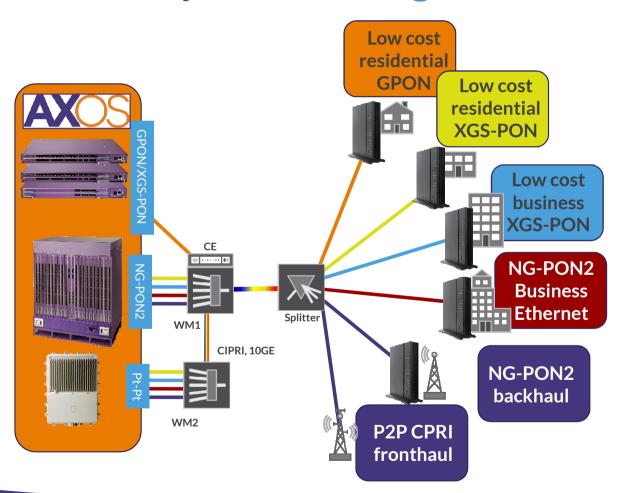
Leverage G.fast and G.fast Amendment 2



Complete portfolio of MDU, DPU, and cabinet-based products

 Calix E7-2, E5, E3 Access Systems and nodes

Ubiquitous next generation PON solutions

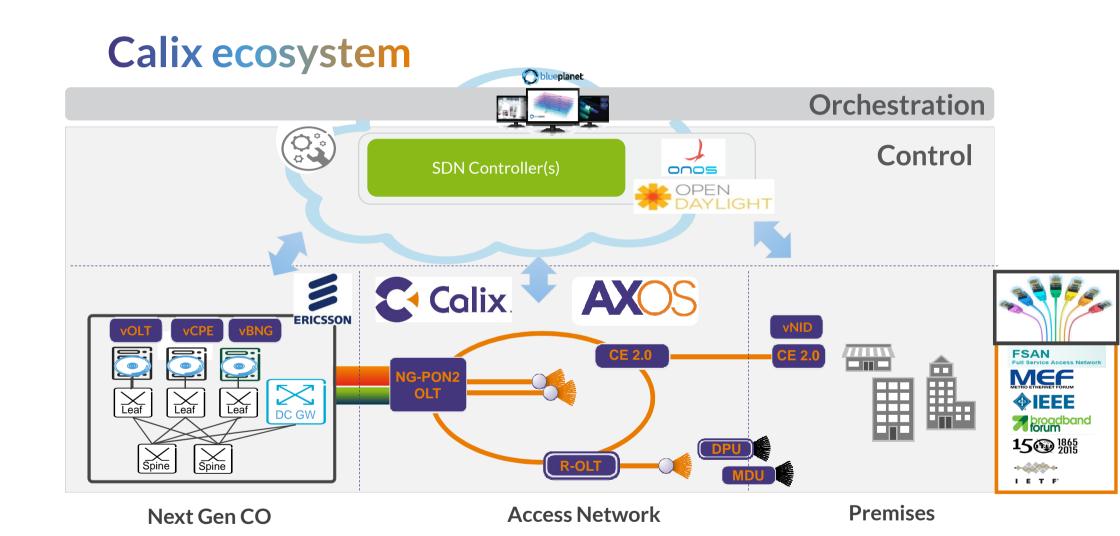


Enable a transparent, converged network

- Bandwidth on demand
- PON agnostic
- Seamless migration
- Single converged network

Complete family of products

- Central office / data center
- OSP
- Premises



C

Why Calix?

AXOS platform power

Consistent **Implementation**



Unified Architecture



Extensible Interfaces





SPEED

- Solve a hard problem once
- Reuse successful components
- Leverage silicon innovation
- Can integrate Open Source value



INTEGRATION

- Tighter integration
- Broader opportunities
- Round out the portfolio
- Solution Ecosystem versus larger vendors



TCO

- Predictability
- Workflow Simplicity
- Extensibility (investment protection)
- Carrier class uptime
- Reduce OPEX



EXPERIENCE

- Fast service activation
- Always ON network
- Device centric experience

SDN Native



Standard-based

IETF RFC 6241 YANG, Netconf **TR-69**

Proven Resilience



XGS/NG-PON2

Data Center







CE 2.0

Outside Plant

Premises



Systems product strategy tenets

Intelligent Service edges

New products

- Disaggregated and distributed systems
- Native SDN and NFV
- Portable across the access network and the cloud
- Flow based

Transparent access and the gigabit experience

Copper migration strategy

Gigabit experience on copper

Fiber migration strategy

- Converged network
- On demand capacity

Premises strategy

 Instrumented, controlled, managed services



AXOS SW Platform

- Full hardware and service abstraction
- Activate new functions individually
- Live upgrades
- Self-diagnosis, selfhealing and process auto-restart
- Open standards, open interfaces

Calix Winning Strategy



Focus on Access

- Only vendor pure play
- Global reach
- Complete Ecosystem
- Direct Engagement

Customer Appeal

- Aligned with Customer Evolution Plans
- Fast, Always On and Simple resonates across Telco, Cable MSO and Wireless Operators
- Nimble and responsive

Three key platform development takeaways

AXOS changes the rules for how service providers can win in the future

Calix innovations are well-suited to take advantage of disruptive forces influencing the access network

Calix is driving changes to the access domain

John Colvin

Senior Vice President, North America Sales

Agenda

- 1 Calix sales engagement
- 2 Engaging with customers
- 3 Key customer needs
- 4 2016 initiatives

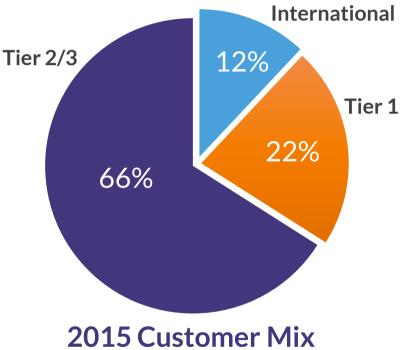
Calix Sales Engagement

Customer engagement leadership

Focus: Strategically aligned bookings



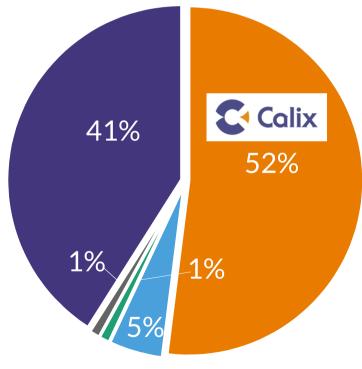
John Colvin Senior Vice President North America Sales



Andy Lockhart
Senior Vice President
International Sales

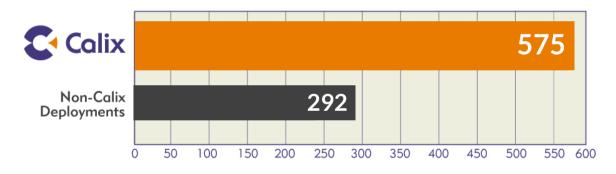
Service providers love to work with Calix...

We are the North American <u>market share leader</u> in GPON OLT revenue...



Service providers love to work with Calix...

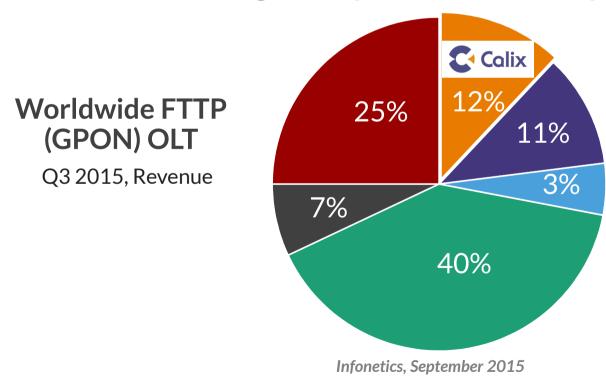
We have nearly twice as many FTTP deployments in North America as all other vendors combined...



Broadband Communities, November 2015

Service providers love to work with Calix...

We have grown to become a "<u>Top 3</u>" FTTP vendor globally over the last 5 years...



We have 1300+ customers globally ... and growing



How? An unwavering focus on alignment

Calix processes aligned with customer and market needs

Customer focus—CEP

Customer Engagement Process

- Goal: Simplify
- Metric: Customer satisfaction
- Execution: Ensure customer success



Product focus—AIM

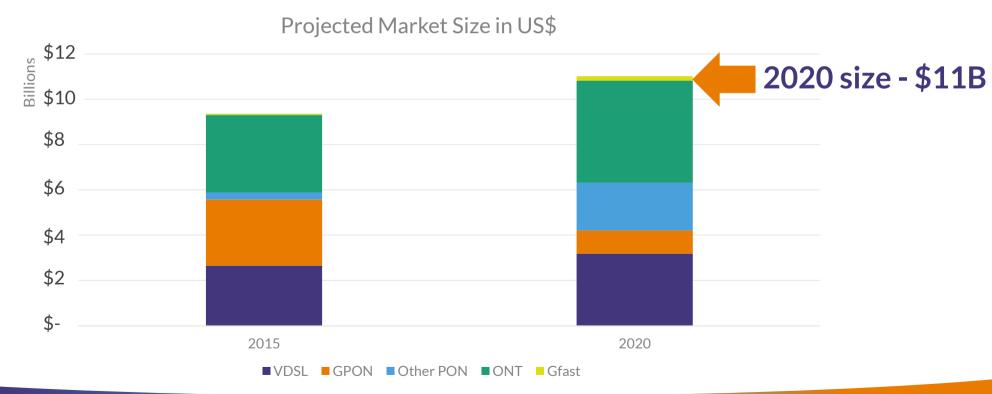
Agile Innovation Methodology



Access is a large and growing market

Calix customer engagement process positions us to win

Global access TAM by technology – IDC estimates 2015-2020



CEP models vary by geography

North America

A team of 300+ professionals dedicated to serving our customers predominantly **DIRECT**

Indirect

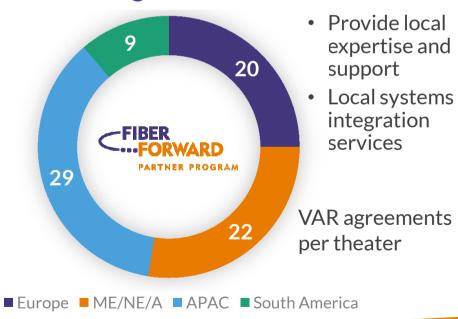
10 resellers

Direct

- Majors
- Nationals
- Regionals
- CALA
- Canada

<u>International</u>

80 local resellers dedicated to serving our customers **INDIRECT**



Calix global reseller partnership

Ericsson strategic partnership



Acquisition and global reseller agreement

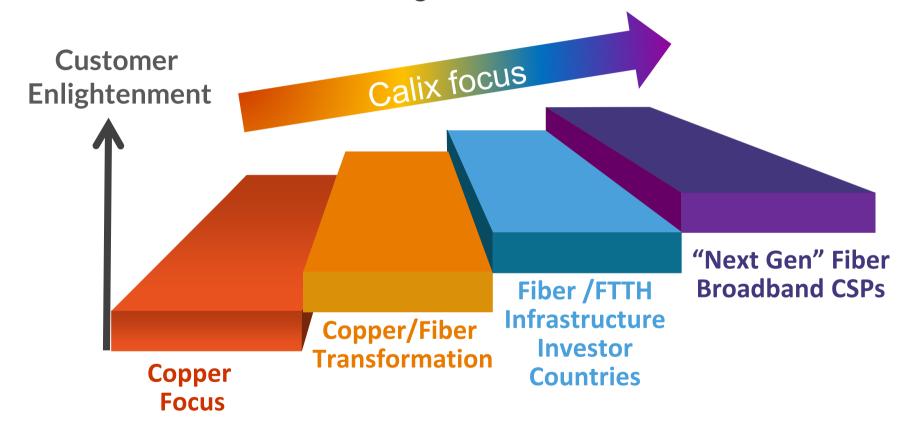
- Established November 5, 2012
- Calix acquired all Ericsson fiber access assets

Calix is Ericsson's preferred broadband access vendor globally

Extends into 180 countries worldwide

Finding the right Calix solutions fit

Global customer transformation stages



C4

Engaging with Customers

Engaging with purpose - Choosing the right method

Direct engagement - Consultative, trust building

Customer acquisition, securing new projects

Mass engagement - Awareness, vision, thought leadership

Calix User Group, Calix Roadshows, Partner Summit, trade shows

Virtual engagement - Transactional efficiency, education, self-service

Calix web platform, My Calix, configurator, storefront

Mass engagement - Calix events

Fall: Calix User Group

- Purpose: Vision
- 1600+ attendees
- Industry's premiere access-focused event
- Educational focus
- Product debuts



Spring: Calix Roadshows

- Purpose: Deployment
- 1200+ attendees
- Case studies
- 30 North America stops



Spring: Partner Summit

- Purpose: Motivation
- 100+ attendees
- Educational focus
- Awareness and value selling



Daily virtual engagement: Calix Web Experience

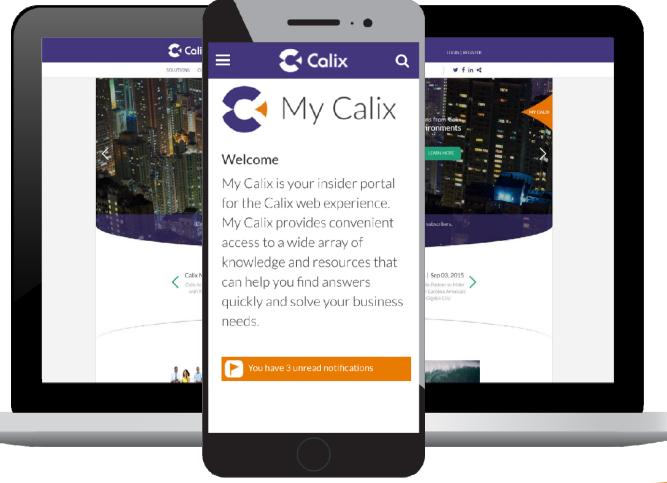
Frictionless transactions

Debut: 11/2015

- Educational focus
- Communities
- Self-service tools
- Mobile responsive

Next: Transactions

- Storefront
- Configurator
- Quote generator
- Take order 24/7



Key Customer Needs

Top of mind for service providers

Global gigabit experience leadership









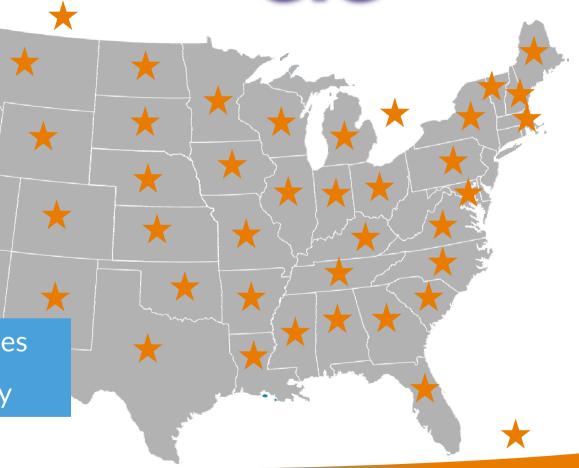
WHAT'S YOUR GIGALIFE?





U.S. today: 131 service providers | 43 states

Thousands of communities served globally



Focusing on next wave of technology innovations

10G PON and G.fast present insertion points in new accounts

Leading the charge in cutting-edge demonstrations

- Gigabit speeds over copper with bonded G.fast (Broadband World Forum)
- 10G tunable optics and coexistence demos NG-PON2, XGS-PON, GPON



Calix Announces Innovations in G.fast and Vectoring at Broadband World Forum

Live bonded G.fast demo to surpass gigabit threshold; VDSL2 system level vectoring to set new standard for deployment economics over copper

LONDON – **October 20, 2015** – <u>Calix, Inc.</u> (NYSE: CALX), the world leader in gigabit fiber deployments, today announced the expansion of its copper solutions portfolio to be highlighted at the Broadband World Forum (BBWF) this week in London. Among the new innovations are:

- Live demonstrations of G.fast bonding technology delivering broadband speeds in excess of 1 gigabit per second (1 Gbps) over existing copper infrastructure up to approximately 250 meters
- Live demonstrations of interoperability between Calix G.fast DPUs and modems and those of other vendors at the Broadband Forum Interoperability Pavilion
- The debut of breakthrough VDSL2 system level vectoring (SLV) solutions on the Calix E7-2
 modular access systems that deliver up to 96 vectored ports without the economic and
 operational burden of a dedicated vectoring control processor card (VCP)
- The introduction of new VCPs on the E7-2 modular chassis that can scale from 97 to 384







Government broadband initiatives

Provides CAPEX floor for our U.S. service providers, opportunity globally

US: Connect America Fund

Price Cap – Copper focus

\$1.6B+ per year

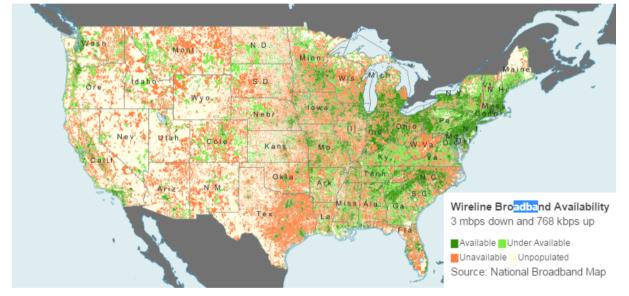
Rate of Return (TBD)

\$2B+ per year

CAF2 auctions (TBD)

\$200M per year -early 2017 - Overbuild uncommitted areas

Many more country-specific broadband modernization initiatives



2016 Initiatives

Expanding what Calix can sell

New technologies provide insertion points

 Next generation PON, G.fast, Software Defined Access (SDN/NFV), Compass



New world-class solutions already in deployment

- AXOS
- GigaFamily solutions:
 - New GigaCenters, GigaHubs, GigaPoints
- Cable solutions: E3 Sealed Access Nodes

Advanced solutions coming to market soon

NG-PON2 solutions: E7-20 and E7-2 Access Systems







Continued global expansion

Becoming local globally

Strategy

- Enter attractive country markets with a focused Calix presence and local partners
 - Capture market share
 - Balance between mature and developing higher growth countries



- Consultative customer engagement
 - Right customer fit
 - Right Calix solutions
 - Right cooperation with local partners



Leverage key global partners

Three key customer engagement takeaways

Calix has powerful and proven customer engagement processes

Customers and prospects are resonating with Calix solutions

We are poised to find new insertion points in growing markets

David Seda

Vice President, Marketing

Agenda

- 1 Marketing vs. Sales
- 2 Calix product positioning
- 3 AXOS
- 4 Industry leadership







One-to-many · · · · · Communicate · · · · · One-to-one

Create · · · · · · Needs · · · · · · Fulfill

Routes-to-market · · · · Relationships · · · · Routes-to decision

Marketing Different

1 BIG

Premium brand

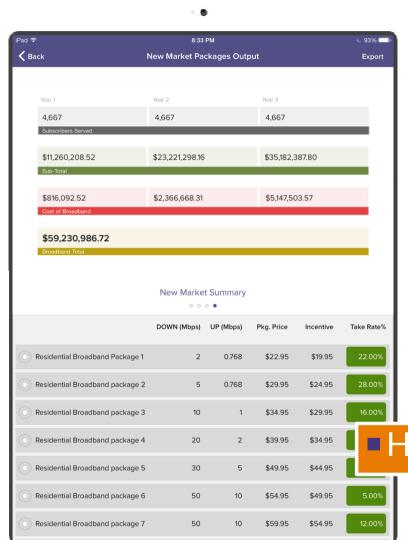
- Comprehensive portfolio (end-to-end)
- Breadth of resources and services
- Safe choice

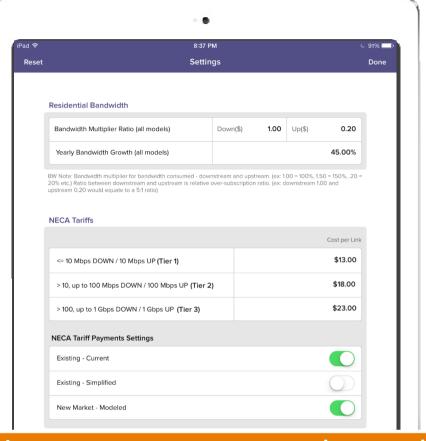


Premium brand

- Most effective, innovative and cost efficient solutions (best-in-class)
- Specialists in Access and Market segments
- Strong communities, exchanges and partnerships

Calix App for planning Gigabit services





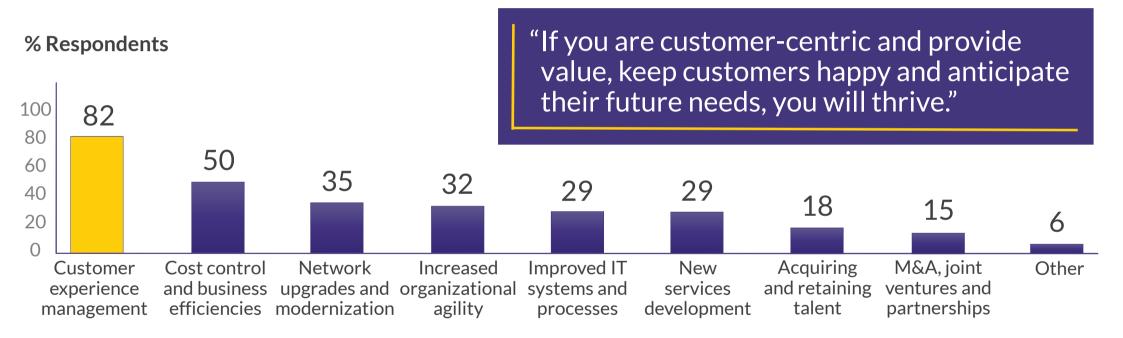
Helping our customers market and win

Calix Product Positioning



EY 2015 Global Telecommunications Study

What are your organization's most important strategic priorities over the next 3 years (top 3 reasons)?



C4

2016-2017: 123% increase in 11ac shipments (58 million units)

Broadband CPE technology transition - Global



Source: Infonetics 3Q15, Broadband CPE Forecast



The Challenge to Meet Subscriber Demands

Growing customer frustration with WiFi and rising support costs

issues

Up to 43% of subscribers support calls are Wi-Fi have issues with WiFi performance

- Subscribers connect new devices to the network every day
- WiFi extenders, old devices, out-of-date software all impact subscriber experience

Issues for the Service Provider

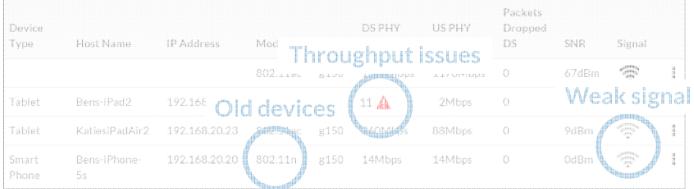
- Lack of remote visibility to consumer's devices, reduces control over subscriber experience
- Increasing costs of support calls and truck-rolls to resolve issues
- Decline in customer satisfaction



Illustration by William V. Cigliano

Sources: 2015 Arris Consumer Entertainment Index: Pivot Group 2014: Parks & Associates 2014

WiFi Advisor in the cloud performs analysis on the data





Cigaconter gathers data

Airtime Analysis



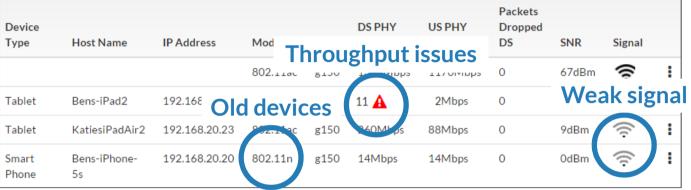
Shows recommendation and analysis to remote technician

A Observations and Recommendations

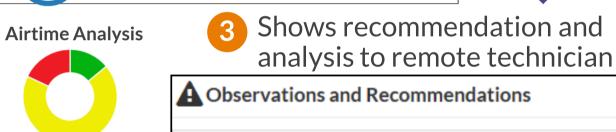
High Radio Interference - 5.0 GHz

- Turn on DFS channels if DFS is not enabled.
- Note: While not all clients can use DFS channels, DFS channels interference of all Wi-Fi Channels.
- · If you cannot turn on DFS, manually switch channels or set Ch performance improves.

WiFi Advisor in the cloud performs analysis on the data







High Radio Interference - 5.0 GHz

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Visibility Control

Free

Used

Interference

Market Impact of Next Gen Fiber and Copper

NG-PON2

- Early application drivers are business services (symmetrical)
- Backhaul applications (e.g. G.fast) and fiber exhaust will also drive adoption
- Critically enables convergence of Business and Residential networks

G.fast

- Impact begins 2H 2017
- Volumes in Europe, N. America
- Targeting Multi-unit buildings
- Over time affects VDSL2
- Like vectoring, many variables:
 - Competitive pressures on operators
 - Distance of premise from distribution point
 - Quality of in-building copper
 - Wildcard: Impact of G.hn

AXOS

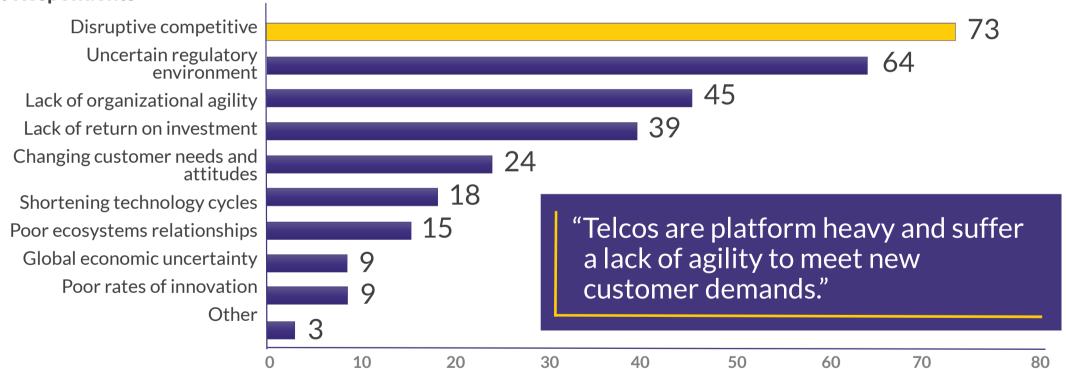
The World's Most Advanced Operating System for Access Networks



EY 2015 Global Telecommunications Study

What are the most important significant challenges facing the industry?





S

Top of mind for service providers

Accelerate time to revenue



- Rapidly deployanew services across the access network
- No proprietary architecture
- Validate new features against deployment use cases
- Reduce time to qualify new systems and software

Eliminate service disruptions



- Elahways Ottages
- Design for no maintenance windows
- Constrain failures from new features
- Eliminate side-effects caused by new fixes

Reduce operational complexity



- Redu**sting to int**egrate with ITOSS systems
- Standards based multivendor interoperability
- Automate workflows
- Reduce complexity to qualify new hardware

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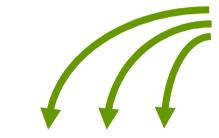


Fast. Architected for faster time-to-revenue

Agile DevOps environment

One component, many locations

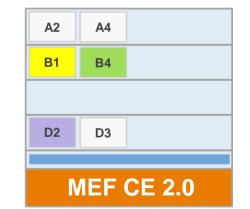
Faster qualification with no re-test of known components

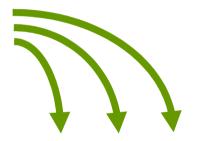


A1	A2	А3		
B1	B2	В3	B4	
C1		C4		
D1	D2	D3		
NG-PON2 OLT				



AXOS Component Library





A1	А3			
B1	B4			
C2		C4		
D1	D2			
G.fast DPU				



Always On. Eliminates maintenance windows

Live Upgrade Scenario

- Faulty video code (IGMP module) needs upgrade
- AXOS
 - Stops current video code
 - Removes current code
 - Loads new video code
 - Starts new code
- AXOS data and voice services uninterrupted
- AXOS maintains all video channels during upgrade, so all subscribers are restored to channel they were watching



Non-AXOS



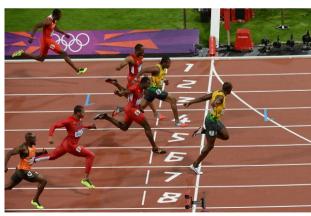




AXOS

Are you kidding me!?!

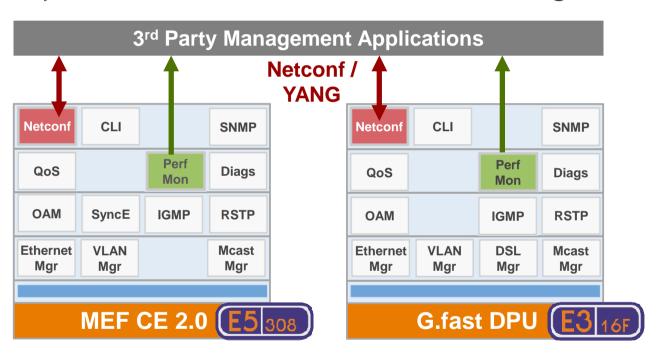






Simple. Multivendor interoperability reduces OPEX

Open standards for orchestration and management



Easy to integrate using open, standard interfaces

Fully programmable management and control APIs reduce operational complexity, enable dynamic service creation and service monitoring

- API for configuration (Netconf / YANG)
- API for performance monitoring ("Push" model vs. "Pull")

Industry Leadership

Calix leads and contributes in the major bodies

FSAN



- Calix recently hosted FSAN meeting in San Jose
- Over 30 Calix contributions to FSAN and ITU over last 24 months
- Calix proposed G.984.5 update: NG-PON2
 /GPON coexistence; accepted as Amendment 2
- Calix wrote Section VIII.3 of G.989.2, the ONU tuning time definition for NG-PON2











Outstanding Contributor

Industry Leadership China, *March* 2015

Circle of Excellence

G.fast Test bedsPortugal, September 2015

Work Area Director

Fiber Access Networks

March 2016

Marketing Takeaways

Use expertise in Market Segments and Access Networks to help our customers win and improve Calix win rate

Position Calix products based on Subscriber Experience Management and a differentiated AXOS platform

Showcase industry leadership and innovation

William Atkins

Executive Vice President and Chief Financial Officer

Agenda

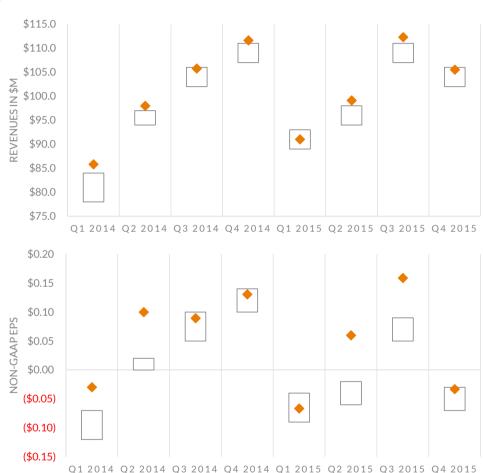
- 1 Predictable performance
- 2 Higher level of profitability
- 3 Accelerated growth rate
- 4 Target financial model

Predictable Performance

Consistency relative to guidance

Eight consecutive quarters of reported revenues in-line or better than guidance

Non-GAAP EPS at or above guidance for eight consecutive quarters



Q1 2016 operating performance guidance*

Revenues \$95-\$99M

Gross margin 47.0-48.0%

Operating expenses \$52.0-\$53.0M**

Non-GAAP EPS (\$0.15) – (\$0.11)

Cash flow from Negative operations

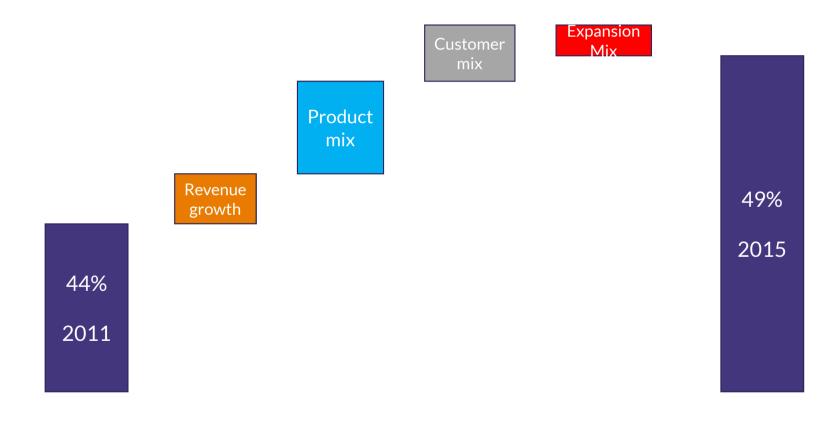
^{*}As issued on February 9, 2016

^{**}Includes approximately \$2.6M of litigation-related expenses

Higher Level of Profitability

Gross margin drive towards 50% long-term model

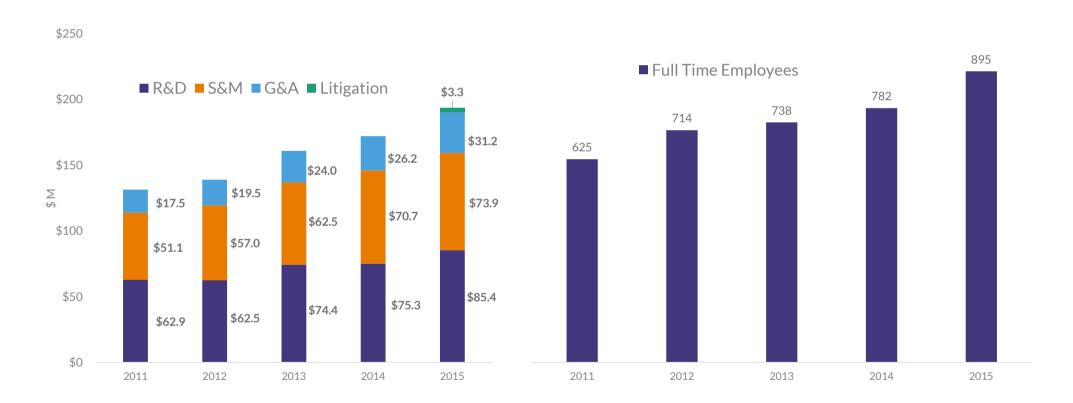
2016 marks a period of pause towards this target



54

Operating expense increase reflects headcount

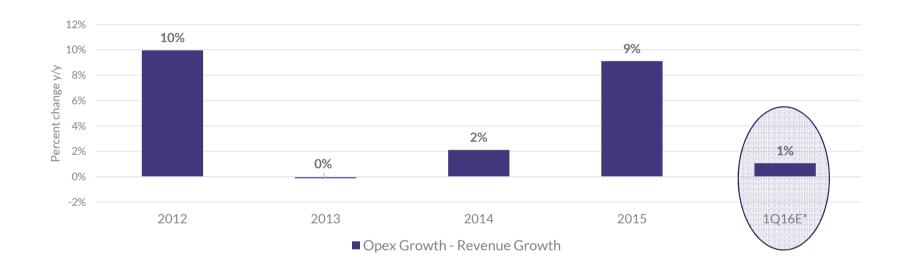
Significant investments to accelerate revenue growth



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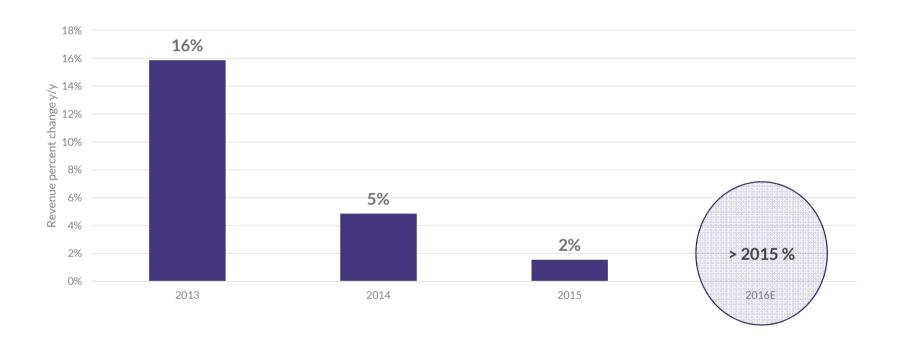
Slowing rate of growth in operating expenses

Operating income leverage as the y/y change in operating expenses decreases



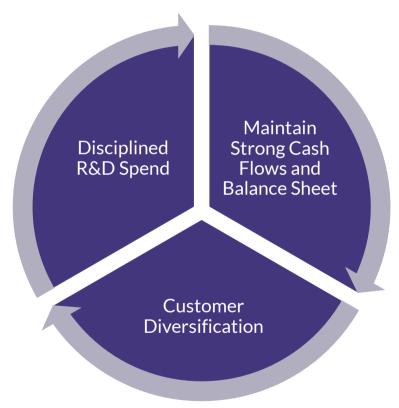
Accelerated Growth Rate

2016 revenue growth > 2015 revenue growth



Cornerstone principles to accelerate growth

Led by technology transitions and increased broadband deployments



50

Platform increases leverage

Shift from product-driven spend to platform-driven investment



History of strong cash flow generation

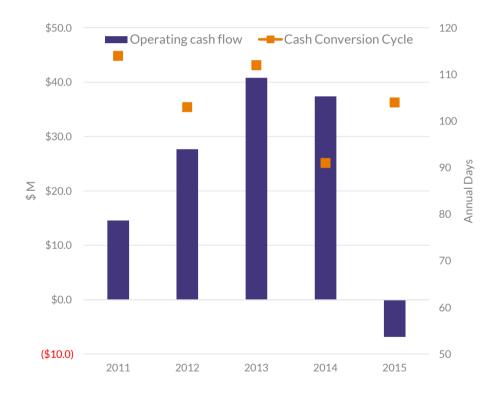
Working capital velocity drives cash flow in 2016

2011-15 Operating cash flow generation

- Cumulative operating cash flow of more than \$110M or more than \$2.25 per share
- 2015 cash flow negatively impacted by timing of shipments

Cash conversion cycle drives cash flow

- Historic cash conversion cycle just over 100 days
- Working capital excluding cash averages less than 10% of revenues

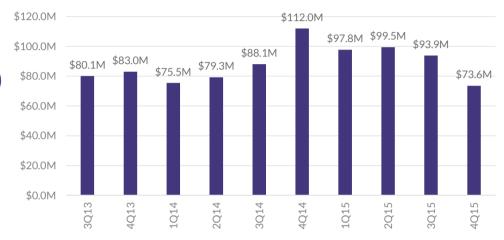


Cash Conversion Cycle = Days Sales Outstanding plus Days Sales in Inventory less Days Sales in Payables

Balance sheet and cash flow highlights (2015)

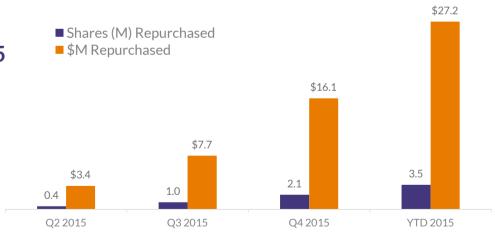
Cash and equivalents of \$73.6M (\$1.45/share)

- Debt-free balance sheet with undrawn \$50M revolving line of credit (expires September 2018)
- More than 90% of cash is domestic cash



Buyback activity accelerated throughout 2015

- Primary usage of cash in 2015 was stock repurchase activity
- In 2015, repurchased 3.5M shares and \$12.8M remains on original \$40M buyback authorization with no time limit on purchases



Focus on customer diversification

Expect continued growth among core customer base

Increased market share within existing medium and large accounts

- Turnkey network improvement projects
- CAF II related professional services engagements
- Next generation copper and optical technologies on the AXOS platform
- Subscriber edge device adoption combined with Compass suite

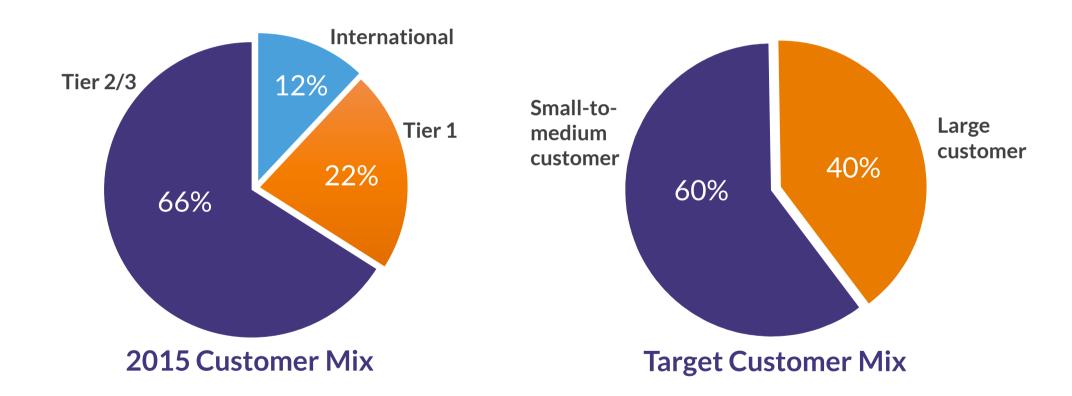
Opportunities with <u>new</u> medium and large accounts

- Next generation copper and optical technologies on the AXOS platform
- Subscriber edge device adoption combined with Compass suite
- Leverage Ericsson partnership for both international and domestic opportunities

Target Financial Model

Customer mix drives target model

Industry and location no longer the key distinction between customers



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Target Financial Model

(\$ in millions, except per share amounts)	2015	Long-Term Target
Revenues	\$407.5	\$600.0
Non-GAAP gross margin	49.0%	>50%
Non-GAAP operating expenses (%)	47.4%	38-42%
Non-GAAP operating margin	1.5%	>10%
Non-GAAP EPS	\$0.12	>\$1.25

Three key financial takeaways

Predictable performance

Higher level of profitability and accelerated growth rate

We are the innovation pure play connecting the subscriber to the cloud



