

POWERING CLOUD SCALE NETWORKS





	Welcome	Michael Capuano, VP Marketing
8:30 am	Transforming to Layer T	Tom Fallon, CEO
8:45 am	Delivering Layer T at Cloud Scale	Dave Welch, President and Co-Founder
9:20 am	Trends in Service Provider Networking	Mattias Fridström, Chief Evangelist, Telia Carrier Chris Aspell, Director of Strategy, Liberty Global
10:00 am	Break	
10:15 am	Financial Model Update	Brad Feller, CFO
10:40 am	Fireside Chat	Infinera Executive Team
11:10 am	Future of Intelligent Transport Networks	Dave Welch, Tom Fallon
11:30 am	Webcast Ends	





Safe Harbor

This presentation contains "forward-looking" statements that involve risks, uncertainties and assumptions. If the risks or uncertainties ever materialize or the assumptions prove incorrect, our results may differ materially from those expressed or implied by such forward-looking statements. All statements other than statements of historical fact could be deemed forward-looking, including, but not limited to, any statements about future market performance and similar statements; any statements about historical results that may suggest trends for our business; any statements of the plans, strategies, and objectives of management for future operations; any statements of expectation or belief regarding future events, potential markets or market size, technology and product developments, or enforceability of our intellectual property rights; and any statements of assumptions underlying any of the items mentioned.

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Transforming to Layer T Tom Fallon, CEO November 17th, 2016



The "Next" Communications Infrastructure



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Rapid Migration to Cloud Architectures







Cloud Connectivity Impacting All Networks



Network Transformation: "Virtualize What You Can"





Fundamental Innovation Required For Layer T

Evolving Networks Require Layer T Intelligent Transport



An Infinite Pool of Intelligent Bandwidth

- Massive optical capacity
- Flexible, integrated and disaggregated
- Open and programmable





Layer "T" Innovation Toolbox

Massive Scale Vertical IP Ownership



Infinite Capacity Engine

Infinite Pool of Bandwidth

Flexible





Integrated Switching

Flex Grid Optical Switching

fermenter 2" Construct a anda Disaggregated

DWDM

Building Blocks for Optimized Networks

Open & Programmable



OPENDAYLIGHT

TELECOM INFRA PROJECT LUMENTUM

Leading the Move to Open Systems





"Cloud Cadence" of Technology Innovation

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Infinera – Leadership Strategies

Building Blocks	Deliver Differentiated Next Gen Platforms in 2017	Increase Cadence of Optical Engine	Lead in Open: Open APIs, Open Line System		
Markets	Disaggregated & Integrated Solutions Optimized per Customer	Balanced Portfolio – LH/SS/Metro/DCI (ETE)	Grow Faster than the Overall Optical Market		
Help Customers Transition to Layer T and Win in Their Markets					

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Delivering Layer T at Cloud Scale

Dave Welch, Co-Founder, President November 17th, 2016



Generational Shift in Network Architecture







Layer T Traffic Patterns Changing



Trans-Atlantic Bandwidth Mix

Source: Telegeography



100G Services are Surging Source: Ovum





Layer T Needs to be Cloud Scale



Introducing the Next Generation of Intelligent Transport Network



Powering Cloud Scale Networks





Unified Intelligent Transport Network for Cloud Scale Layer T



Web Scale Disaggregation: World's First Meshponders





Live Demo after the Webcast



DTN-X Family: XTC Series Advances to Cloud Scale



Infinite Capacity Engine

12T XTC-10





Complete Investment Protection

Industry's Most Widely Deployed Flexible Grid Open Line System





Growth in Metro – A Tale of Two Markets

Metro: DC to User

The "conventional" market

- Rich L1, L2 services
- Mostly 10G, 100G ramping
- High speed mobile (5G) in 2020



Metro: DC to DC

The "new" emerging market

- New DCs, closer to user
- Massive capacity
- Fastest 100G growth in metro







100G Metro DWDM Solutions







Open and Secure

Infinera Management Suite Digital Network Administrator (DNA)



Xceed Software Suite

SDN controller, apps



Open APIs gRPC, OpenConfig XML, NETCONF/YANG, REST

Highly Programmable, Abstracted Multiple layers of abstraction Completely open or fully integrated software

Wire-speed Encryption Across Portfolio





Next Generation Intelligent Transport Network

56% Lower TCO



NA Customer Network 10G → 100G, 3 Time Periods QPSK, 8QAM & 16QAM Switched & Meshponder





Comparable designs for Infinera and nearest competitor



The Infinera Unified End-to-End portfolio







Powering Layer T at Cloud Scale



Layer T

Next Generation Intelligent Transport Network

Uniquely fusing Web-scale & Telco-grade Application Optimized Solutions

Fundamental Innovation Accelerating Layer T Transformation





A structure to deliver differentiated financials



R&D = 20% of revenue

Operating Expenses

G&A grows slower than revenue



Success based S&M investment

Structured financial model

Financial discipline





Ability to Grow Faster Than the Optical Market

Aligned with the fastest growing customers



Expanding into markets that leverage our core technology







Demonstrated Financial Success

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Technology and Cost Structure Differentiation = Increasingly Profitable Growth





Financials are non-GAAP

A Setback... Long Term Targets Still Intact



Current Challenges

Overexposure to Long-haul

Technology gap in Subsea

Customer M&A





Gross Margin: Investments today drive value tomorrow

	Short term margin impacts	Strong return on investment
Long-haul	Pre-deployment of bandwidth at next-gen pricing	Well positioned with a strong customer base and growing IB license stream
Metro	Investing to earn incumbency and footprint	Market transition from 10G to 100G packet optical creates great opportunity
DCI	Pricing pressure increasing; Bridging key customers to CX-2	Emergence of cloud architectures should drive tremendous growth

Margins compare well to industry: Low to mid 40s GM% for next few quarters





GM% is non-GAAP

How Big Can We Be?





Market sizing based average of latest forecasts from IHS, Cignal AI, Ovum, Dell'Oro, ACG; China data from IHS, Compact DCI from Cignal AI
Market Share opportunity: Market share today and Market CAGR based on average of INFN market share from Ovum, IHS, Dell'Oro and ACG of end of FY15, 2020 Market Share range is an Infinera estimate, Implied CAGR range based on 2020 Market Share estimates relative to Infinera business today

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Growth in All Markets: Building a Diversified Company



FY17 – Paving the Path to Profitable Growth



Operating Expense Outlook

	R & D	S & M	G & A
Past	18-20%; Investments did not keep pace w/revenue growth	~ 10%; Long haul centric business had fewer customers to address	5-6%; Revenue outgrew infrastructure
Present & Near Future	Mid to high 20s%; Investments in ICE & future optical engines	Ramp into new markets, invest in trial/demo for new products	Investing strategically to ensure scale
Future	19-20%; increased efficiencies as revenue grows	~11%, growth in line with revenue	5-6%; investing to ensure scale, but at slower pace
	Investment discipline while we ramp optical engine cadence	Strategic investments in verticals and adjacent markets	Efficient spending scale to support future growth
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Other Topics: Tax, Sharecount, Capital Allocation

Taxes



- NOLs largely offset taxes
- Current taxes ~mid-single digits
- US Low due to NOLs
 - Sweden 22%
 - ROW "Cost Plus"
- Evaluating future tax planning

Sharecount



- Track record of managing down burn rate
- Current plan to repay convertible debt due in 2018 with cash

Capital Allocation



- Priority remains investing in the business
- Ongoing consideration of a share buyback
- M&A currently unlikely on a large scale
- Dividends unlikely for foreseeable future





Next-gen Technologies = Win/Win

Customer Benefits

Higher Capacity Engines, Enhanced Technologies

Lower Power, Lower Space

Infinera Experience

Best solutions; Lowest cost of ownership

Infinera Benefits as well

- Higher Unit Volume Increased leverage on fab as with higher volume and PIC yield improvement
- Higher Capacity Engines Lower cost per bit from similar form factor
- Instant Bandwidth Customers time purchases with revenue; Infinera benefits from software-like revenue stream





The Future is Bright: Infinera's Ultimate Opportunity

Long Haul/Subsea return to growth; DCI and Metro = high growth opportunities

Photonic integration and pricing strategies enable differentiated cost model

Balancing technology investments with disciplined expense management

Long Term Goals Intact

- Outgrow Market
- 50% Gross Margin
- 15% Operating Margin





GAAP to Non-GAAP Reconciliation

(In millions, except percentages and per share data) (Unaudited)

Note: Amounts represent the midpoint of the expected range.

	Q3'16	Q4'16
	Actual	Outlook
Reconciliation of Gross Margin:		
U.S. GAAP	45.6%	37%
Stock-based compensation	0.8%	1%
Amortization of acquired intangible assets	2.8%	3%
Non-GAAP	49.2%	41%
Reconciliation of Operating Expenses:		
U.S. GAAP	\$	101
Stock-based compensation		(9)
Amortization of acquired intangible assets		(2)
Non-GAAP	\$	90
Reconciliation of Operating Margin:		
U.S. GAAP	(5.9)%	(20)%
Stock-based compensation	5.5%	6%
Amortization of acquired intangible assets	3.6%	4%
Acquisition-related costs	0.4%	
Non-GAAP	3.6%	(10)%
Net Income per Common Share:		
U.S. GAAP	\$	(0.27)
Stock-based compensation		0.08
Amortization of acquired intangible assets		0.04
Amortization of debt discount		0.02
Income tax effects		(0.01)
Non-GAAP	\$	(0.14)

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The Future of Intelligent Transport

Dave Welch, Co-Founder, President November 17th, 2016



Cloud Driving Technology Evolution







Infinera Scaling Laws







Optical Engine Evolution



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Pursuing Maximum Reach & Capacity



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Leveraging the Power of Multi-Channel Optical Engines



Layer T Architectural Shift, Fiber Deeper Into Metro



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Routing Moves to the Cloud

Distributed Routing Function (DRF)

INSIGHT



Well Positioned for Layer T Transformation

- Best of Web Scale & Telco Grade
- Optical engine innovation & cadence
- Unique pre-deployed Bandwidth w/Xceed control
- End-to-end solution subsea to metro edge
- Infinera as catalyst for Layer T transformation







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Closing

Tom Fallon, CEO November 17th, 2016



The Infinera Experience Is Differentiated









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