



Opening Keynote Presentation

Clouding the Issue versus Issuing the Cloud – Ethernet as both problem and solution



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Ethernet in the cloud

A problem and a solution?

September 2013

Boscolo B4 Nice-Plaza, Nice, France



Welcome

Who is the CEF?

Exploring the challenges of scaling Ethernet to meet the needs of cloud

A multi-layered, cross-industry approach with a focus on the customer requirement

CloudEthernet Forum Members @ Sept 25

Alcatel-Lucent 

AVAYA

ciena

CITRIX

 **CORESITE**

 **CYAN**



ERICSSON


EQUINIX




HUAWEI

JUNIPER
NETWORKS

PCCW Global


SPIRENT

telx

TATA COMMUNICATIONS


verizon



CLOUD ETHERNET FORUM

A VENDOR PERSPECTIVE

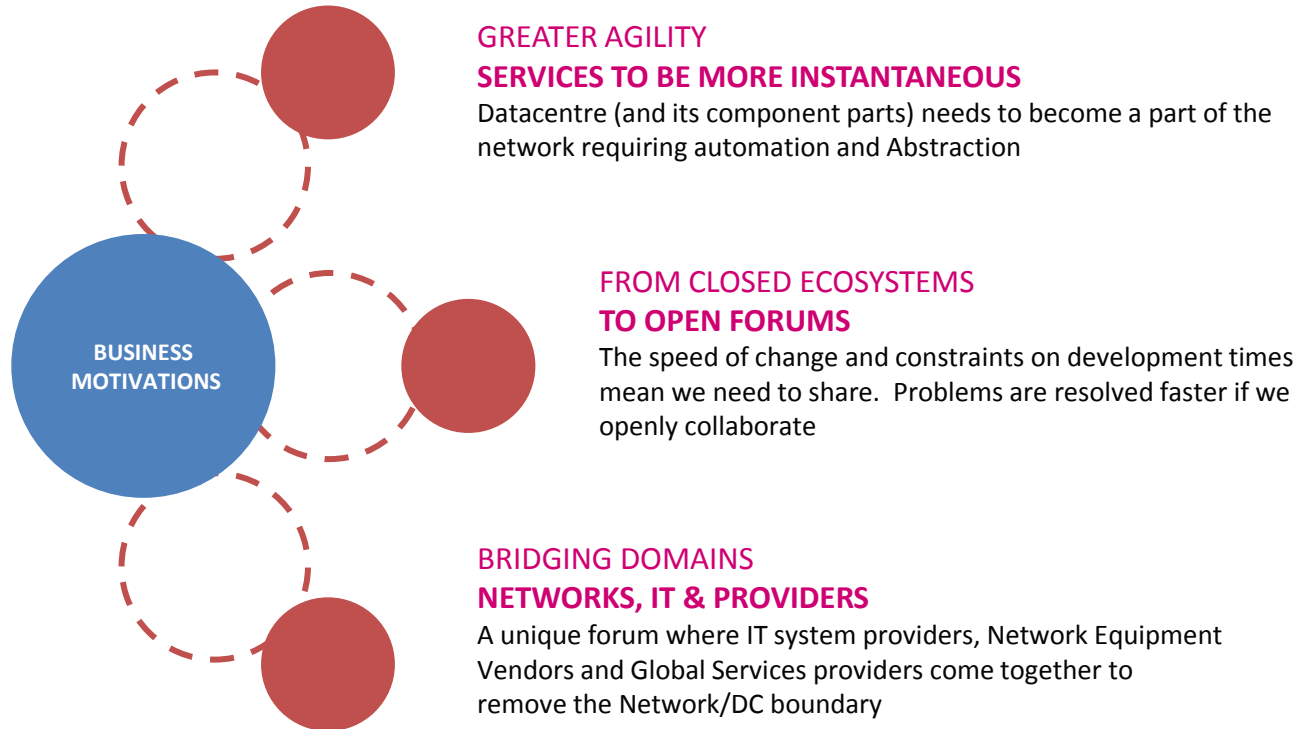
Phil Tilley

September 2013

Cloud Infrastructure Readiness Scorecard

Cloud Infrastructure	Compute	<input checked="" type="checkbox"/>	Virtualized, instantly available, easily consumable.
	Storage	<input checked="" type="checkbox"/>	
	Network	<input type="checkbox"/>	

CRITICALITIES OF A CLOUD ERA



THE NETWORK MAKES THE CLOUD

Cloud Services Market Growth

- Enterprises and consumers around the globe need increasing amounts of on-demand cloud compute and storage capacity
- Cloud service providers need to minimize complexity of scaling and rapid redistribution of VMs and storage to meet performance, cost and regulation compliance objectives

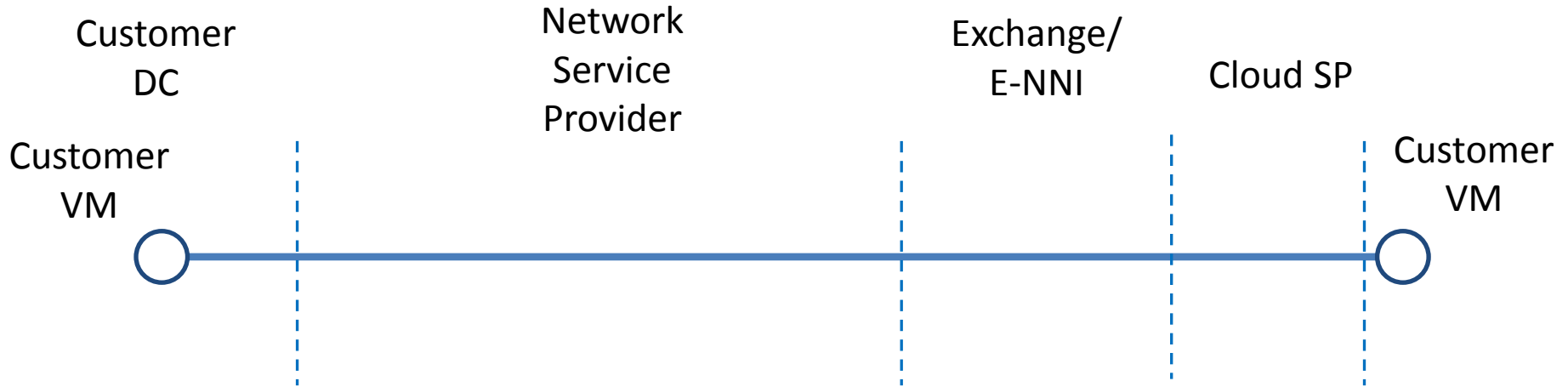
Cloud Services Scaling Challenges

- Ethernet is the fundamental networking technology used in the backplane, racks, between racks and site interconnects BUT
- Current layer 2 technology approaches do not yet effectively support increasingly large and geographically dispersed VM and storage environments
- Orchestration layer to support very large VM environments dependent on increasingly complex L2/L3 interactions

Stakeholders in Scaling Cloud Services

- A range of companies need to work together effectively to address technological issues of scaling cloud service infrastructures
 - Data Center Providers
 - WAN Service Providers
 - System Integrators
 - Network Equipment Manufacturers
 - Cloud Service Providers

The end to end challenge



Forum Activities

– Technical

- Identify required technical work
- Develop specifications and implementation agreements

– Marketing

- Promote technical solutions developed by the Forum

– Operations

- Identify required business processes
- Develop recommended best practices

First Forum Activities

- Launch & members meeting
 - Launched at Ethernet Innovation Summit, CA – May 23rd, 2013
 - Inaugural Members Meeting, Montreal – July 24th, 2013
- Publish
 - Problem Statement White Paper
 - Use Cases
- Technical Committee Setup
 - VLAN exhaustion in pure L2 networks
 - BUM-related performance degradation
 - Inter-relationship between orchestration layer and disposition of assets

Upcoming Events

Next Members Meeting, Seattle, USA, October 24th
(Members Board Meeting October 23rd)

APAC Regional Meeting, Singapore, November 19th





Keynote Interview & Audience Q&A



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