

DATA CENTER INTERCONNECT SICHERER UND FLEXIBLER DATENAUSTAUSCH ZWISCHEN RECHENZENTREN

AGENDA

- 1. Key Feature learning's from ancient Greece?
- 2. User challenges to be addressed for IT, Data Centre and Cloud
- 3. Security, Reliability and Key Feature Focus of our Solution

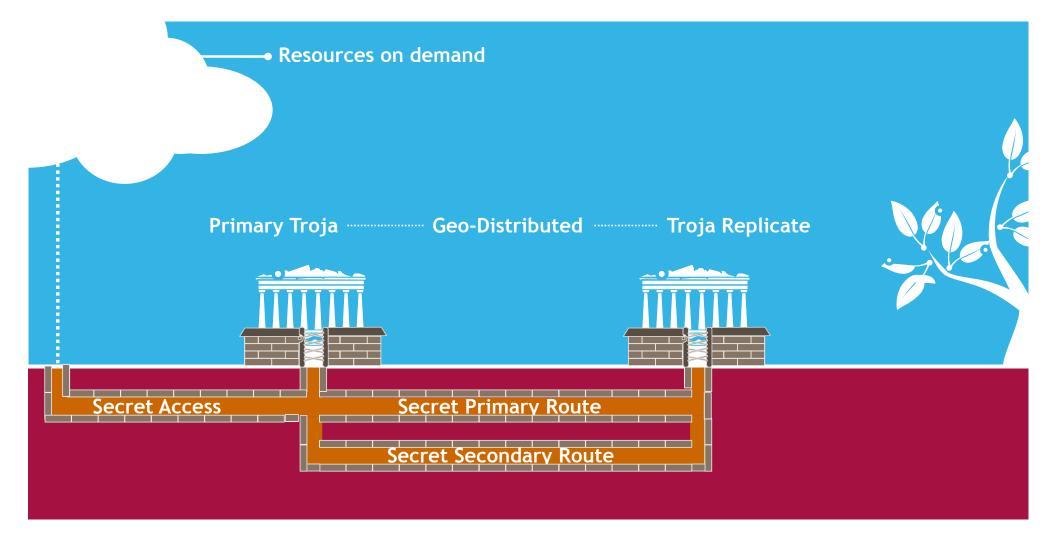




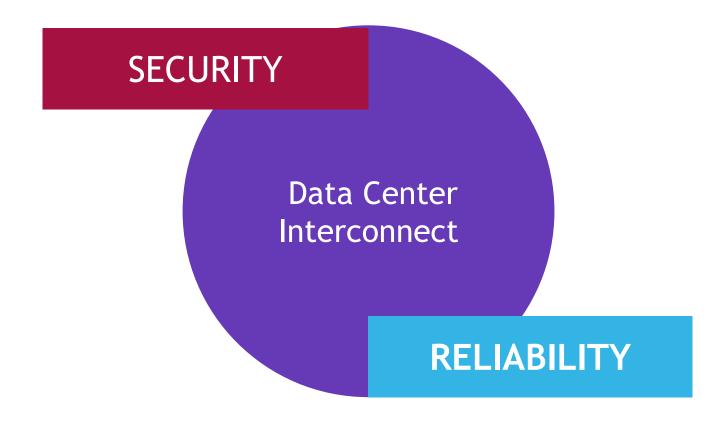
BEING INSPIRED BY ANCIENT GREECE

They had no secret route to escape!

WHY DID THE TROJANS FALL IN THEIR MISSION?



KEY FEATURE LEARNINGS FROM CHALLENGES IN ANCIENT GREECE?



AGENDA

- 1. Key Feature learning's from ancient Greece?
- 2. User challenges to be addressed for IT, Data Centre and Cloud
- 3. Security, Reliability and Key Feature Focus of our Solution



USER CHALLENGES TO BE ADDRESSED FOR IT, DATACENTER AND CLOUD

MISSION CRITICAL APPLICATIONS



Reduce Cost and Increase Agility

Maximize Employee Productivity

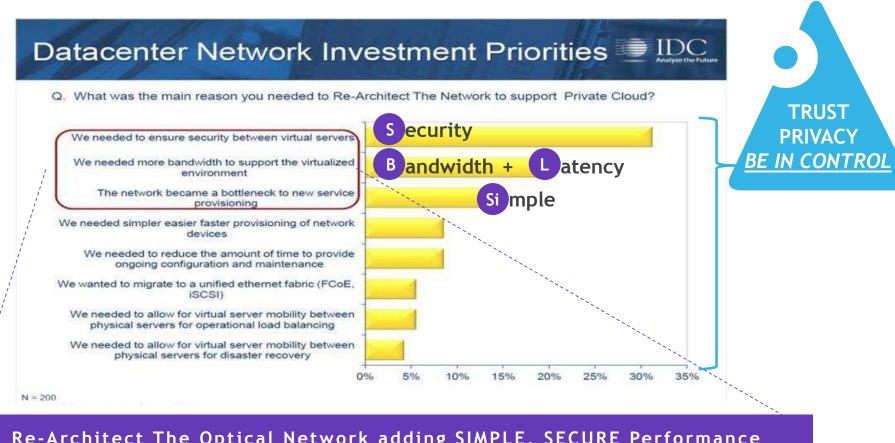
Focus on Compliance and Security

Bandwidth / Security / Availability / Reliability / Scalability / Latency / Adaptability / Lifecycle Network Management



Alcatel·Lucent

NETWORK CHALLENGES TO BUSINESS-MISSION-CRITICAL CUSTOMERS?

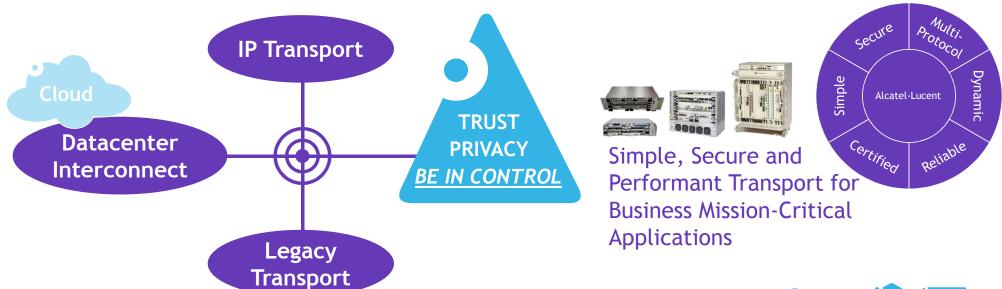


Re-Architect The Optical Network adding SIMPLE, SECURE Performance

AGENDA

- 1. Key Feature learning's from ancient Greece?
- 2. User challenges to be addressed for IT, Data Centre and Cloud
- 3. Security, Reliability and Key Feature Focus of our Solution

WHY DO BUSINESS-MISSION-CRITICAL CUSTOMERS TURN TO ALCATEL-LUCENT?



TYPICAL MISSION-CRITICAL APPLICATIONS:

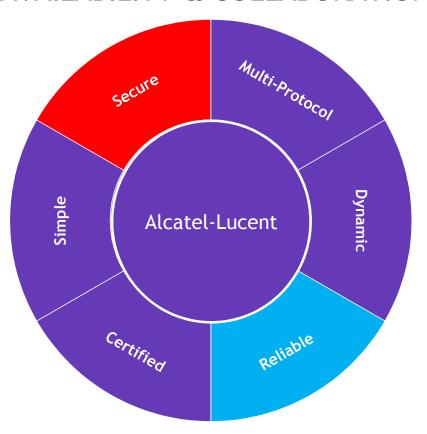
- Teleprotection & SCADA
- Railway signaling
- Communication Based Train Control
- Ground-Train Communications
- Real-time LAN



Focus on Compliance and Security

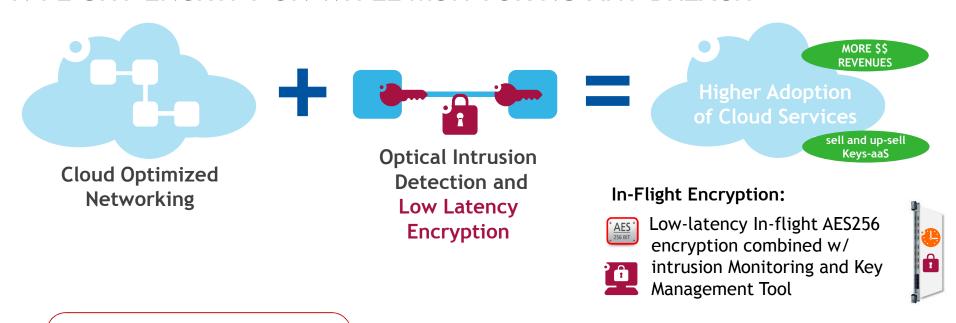


KEY FEATURE FOCUS OF OUR SOLUTIONS DYNAMIC CONNECTIVITY FOR EVEN GREATER MOBILITY, AVAILABILITY & COLLABORATION



- WHY?
 - Secure, Compliance, Available
- HOW?
 - Secure Data Centre Interconnect and Access to Cloud over Redundant Routes
- WHAT?
 - Multiprotocol, low latency In-Flight Encryption while monitoring any breach
 - Key Management Tool
 - Wide range of transport protection schemes combined with OAM
- WHAT'S NEXT?

ALCATEL-LUCENT ADDRESSING SECURITY IN-FLIGHT ENCRYPTION WHILE MONITORING ANY BREACH

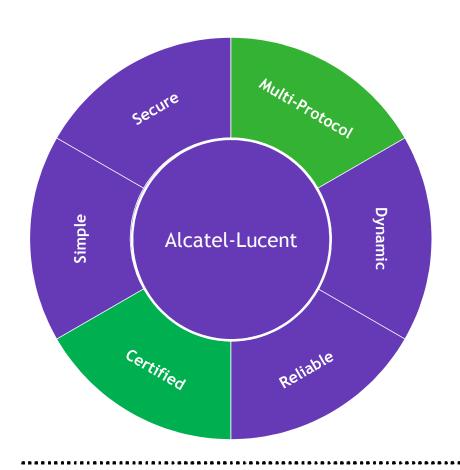


"Security still remains the biggest identified barrier to cloud services adoption (63%) ...

Colt: European CIO Cloud Survey



KEY FEATURE FOCUS OF OUR SOLUTIONS MULTIPROTOCOL & CERTIFIED TRANSPORT FOR CONTINUOUS AVAILABILITY



WHY?

- Data Center connect uses many different protocols
- « synchronous replication », business continuity, disaster recovery are mission critical applications

HOW?

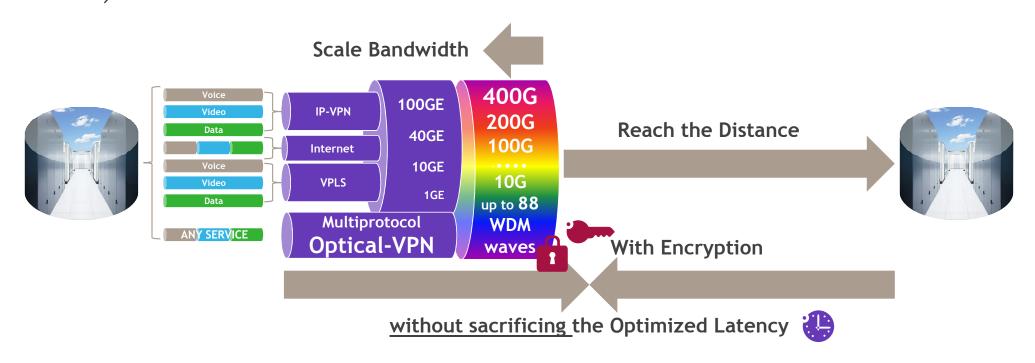
- Flexible use of bandwidth in-between DCs and among Services
- Optimize (plan) and Measure (on-demand) e2e Latency

WHAT?

- Multi-Protocol transport of:
 - Fibre Channel (Storage),
 - Infiniband (HPC Storage)
 - Ethernet (VM) Services

•••••• Alcatel·Lucent 🕢

ALCATEL-LUCENT ADDRESSING PERFORMANCE SCALE, REACH AND ENCRYPT AT MARGINAL INCREMENTAL COST

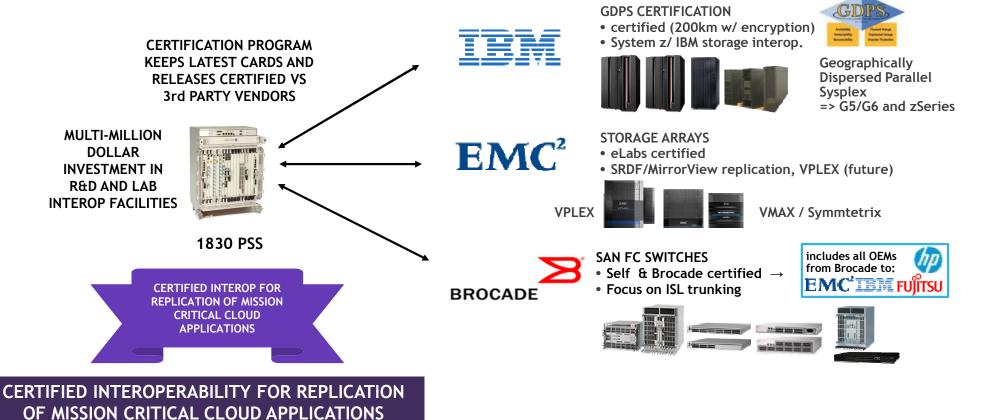


Fast service activation (whatever is the protocol)

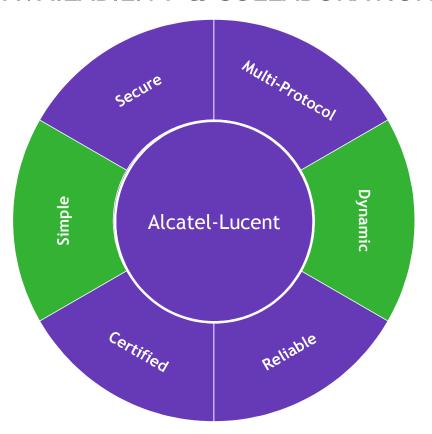
IT IS THE USER-EXPERIENCE, MACHINE-TO-MACHINE AND APPLICATIONS THAT SETS THE REQUIREMENTS OF E2E PERFORMANCE

Alcatel·Lucent

1830PSS CERTIFIED TRANSPORT SUPPORT ADDRESSING INTEROPERABILITY CHALLENGE



KEY FEATURE FOCUS OF OUR SOLUTIONS DYNAMIC CONNECTIVITY FOR EVEN GREATER MOBILITY, AVAILABILITY & COLLABORATION



• WHY?

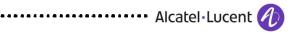
- Fast service activation up-grade
- Flexible use of bandwidth in-between DCs and among Services

• HOW

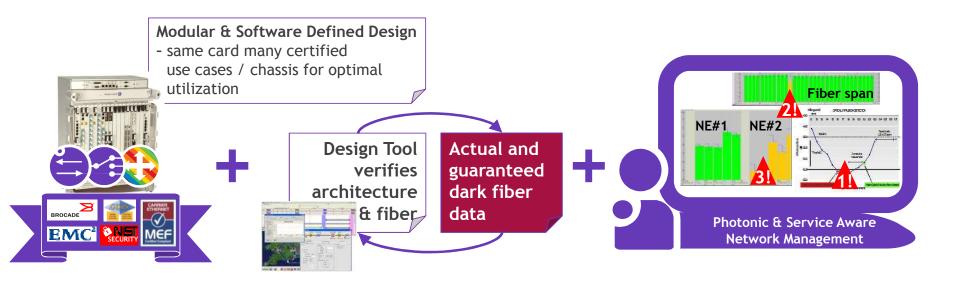
- Modular & Software Defined Design
- Flexibility handled by OAM Tools & Applications

• WHAT?

- Photonic & Service Aware Network Management
- Wavelength Tracker



ALCATEL-LUCENT 1830PSS MAKING IT SIMPLE USING PROVEN HIGHLY INTUITIVE & AUTOMATED OPTICAL SYSTEM



"Facilitate Make or Buy"

"Plan once -Deploy Many" "Deploy Proper Once -Deploy Many at Marginal Cost" "Avoid costly trips to Field"

STRATEGY

DESIGN

DEPLOY

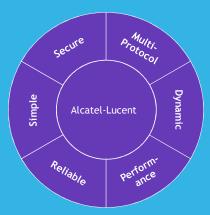
OPERATE

WE HELP CUSTOMERS DEFINE AND BUILD PRIVATE OPTICAL NETWORKS ONE NETWORK SOLUTION RE-ARCHITECTING MANY USECASES

BY ADDING SIMPLE, SECURE PERFORMANCE

- De-risked, using proven Intuitive & Automated Optical system
- In-flight Encryption while monitoring any breach
- Scale, Reach and Encrypt at marginal incremental cost

TO BE IN CONTROL OF BUSINESS-MISSION-CRITICAL CHALLENGES AHEAD



Where do we begin your transformational journey?



Reduce Cost and Increase Agility

Maximize Employee Productivity

Focus on Compliance and Security

www.alcatel-lucent.com