Cisco Support Community
Expert Series Webcast:

Simplified Operations & Ultra Availability with

Catalyst 6800 VSS

Quad-Sup SSO & Instant Access

Vivek Baveja

Technical Marketing Engineer

02/04/2014

Cisco Support Community – Expert Series Webcast

- Today's featured expert is Technical Marketing Engineer – **Vivek Baveja**

- Ask him questions about **Catalyst 6800**, **VSS** and **Instant Access**

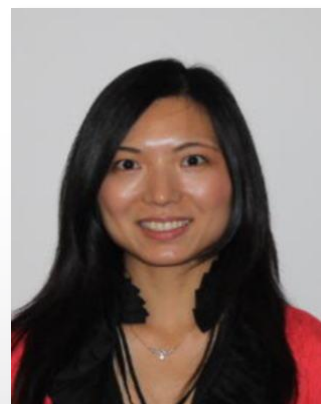## Vivek Baveja

Technical Marketing Engineer

Topic: Catalyst 6800 VSS Quad-Sup SSO & Instant Access

Event Date: February 4, 2014

Panel of Experts

Mahesh Nagireddy
Catalyst 6800 TME

Rose Zhu
Catalyst 6800 PM

Thank You for Joining Us Today

Today's presentation will include audience polling questions

We encourage you to participate!

Thank You for Joining Us Today

If you would like a copy of the presentation slides,

click the PDF link in the chat box on the right, or go to

https://supportforums.cisco.com/community/netpro/network-infrastructure/switching

Or, https://supportforums.cisco.com/docs/DOC-39819

Polling Question 1

What is your level of experience with Catalyst 6500 or 6800?

a) I know Catalyst Switching technologies, but I am not familiar with Catalyst 6500 or 6800.

b) I have some experience with Catalyst 6500 or 6800, but I'm not familiar with the architecture.

c) I'm running Catalyst 6500 in production, but I have never used a Catalyst 6800.

d) I'm running both Catalyst 6500 and 6800 in production.

Submit Your Questions Now!

Use the Q & A panel to submit your questions and panel of experts will respond.

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Catalyst 6800 VSS
Quad-Sup SSO & Instant Access

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Agenda

- **Introduction to Catalyst 6800 Series**

    - **Catalyst 6807-XL Overview**

    - **Catalyst 6880-X Overview**

    - **Catalyst 6800IA Overview**

- **Overview of Virtual Switching (VSS)**

- **Overview of Instant Access (IA)**

- **Live Demo of Catalyst 6800 Series with VSS & Instant Access**

LIVE DEMO

Introduction to
Catalyst 6800 Series

Cisco Catalyst 6800 Family
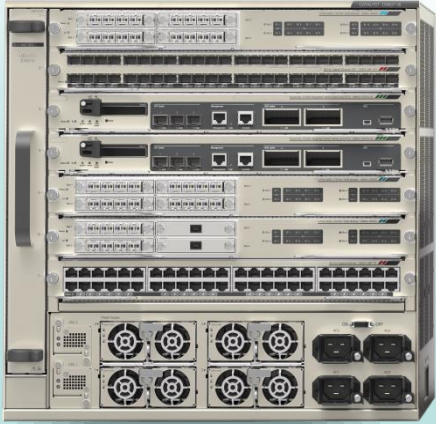
6807-XL
Future-proof Backbone platform to scale your Campus services with NO compromise

6880-X
Mini but mighty backbone platform with high density 10G and rich services

6800IA
With **Catalyst Instant Access** solution that dramatically simplifies your campus operations

Reinventing Your Backbone Experience

Investment Protection

6807-XL supports Sup2T with its linecards and service modules

6800 optimizes 10G/40G performance and is ready for 100G

6800 is built to persevere and has the capacity to be unlocked by future modules

PAST

PRESENT

FUTURE

Introducing the New 6807-XL

Taking Catalyst 6K Up to 880G/Slot

Now Shipping

7 Slots 10 RU

Side-to-side air flow
(redirectable via airflow baffles)

Next-Generation Ready

Low-Power and Noise

High-Efficiency Fans

Up to 4 (N+1) power supply
redundancy

3000W AC

Up to 880G/Slot capable

Catalyst 6500 DNA

Investment protection!

Compatible with Sup2T, 6700, 6800, 6900
and latest Service Modules

Backwards compatible backplane connectors
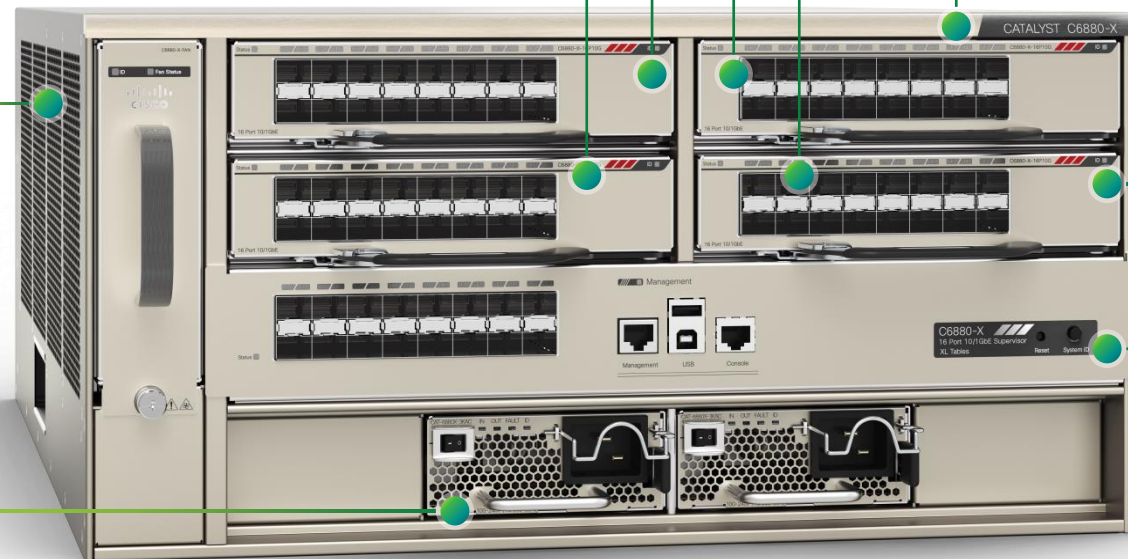
The New Catalyst 6880-X

C6K-Based "Extensible" Fixed Platform

Up to Eighty 1G/10G ports or Twenty 40G ports*

Low Power & Low Noise Fans

Platinum EFF Redundant AC and DC PS

VSS, Instant Access, MPLS, MACsec, VPLS, LISP, SGT, 1588* capable on every port

Sixteen 10/100/1000M & 10G SFP ports or up to Four 40G ports*

Fixed module with Sixteen 10/100/1000 & 10G SFP ports

X86 2 GHz CPU   4 GB DRAM

Four 100G-Ready Port Slots, Front Serviceable Power Supplies, and Fan Tray, NEBS Level 3-Compliant Platform

Catalyst Instant Access Client

Limited Lifetime Warranty

Now Shipping
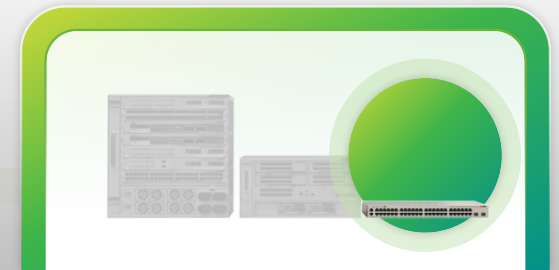
System and Status LEDs

Stackable up to Three members at FCS

48 x 1G RJ45 Ports

Data and PoE/PoE+ Options

2 x 10G SFP+ Uplink Ports

Catalyst 6800 features at Access Layer

The Modular Cat6K Portfolio

6503-E 6504-E 6506-E 6509-E 6513-E 6509-V-E 6807-XL

Sup720-10G

Sup2T

40/10 GE Fiber

CVR-4SFP CFP-LR4 CFP-SR4

10 GE Fiber & Copper

| 80G/Slot 6908 | 6904 |
| 40G/Slot 6816 | 6816 |

1 GE Fiber & Copper

Fiber 6824
       6848
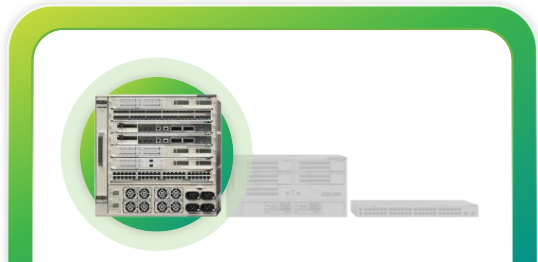Copper 6848

10 GE Fiber & Copper
40G/Slot

6716 6716
6704 6708

1 GE Fiber & Copper
40G/Slot

Fiber 6724
       6748
Copper 6748

Service Modules

NAM-3

WiSM2

ASA-SM

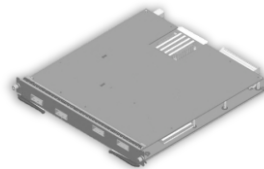# Smooth Migration from 6500-E to 6807-XL

6500-E
Optimized for 1G/40G/10G

CARD	SPEED
6900	80G/slot
New 10/40G	80G/slot
New 100G	80G/slot

Sup2T, 6900, 6800, 6700

Service Modules

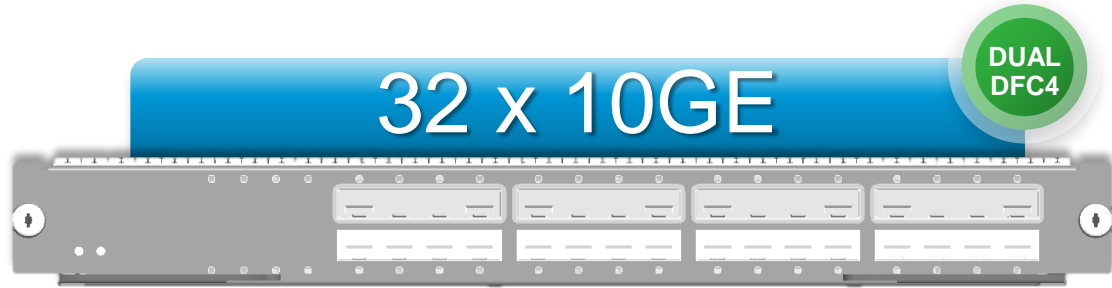**Next Generation Cards**

6807-XL
Optimized for 10G/40G/100G
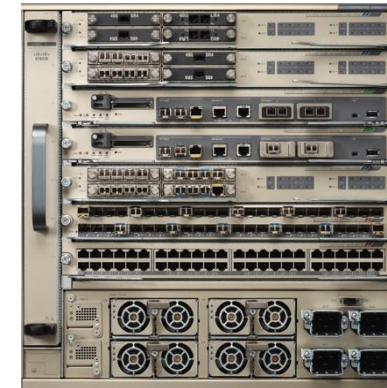
CARD	SPEED
6900	80G/slot
New 10/40G	160G/slot
New 100G	200G/slot

Continued Investments
Introducing New 10G/40G Linecards

32 x 10GE
DUAL DFC4

6500-E	6807-XL
80G/Slot	160G/slot

16 x 10GE
DFC4

6500-E	6807-XL
80G/Slot	80G/slot

8 x 10GE
DFC4
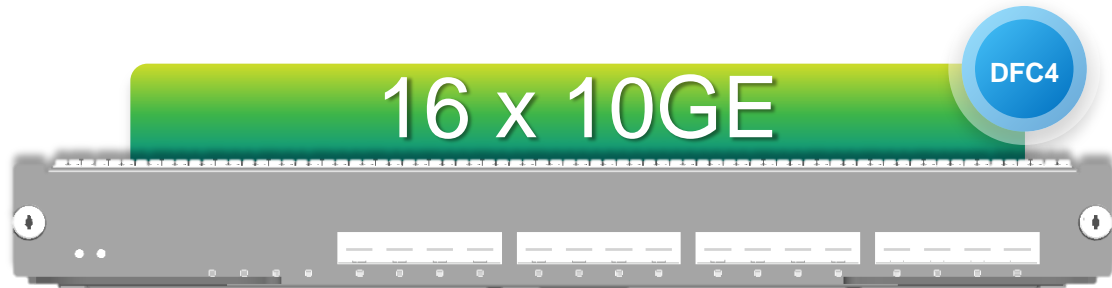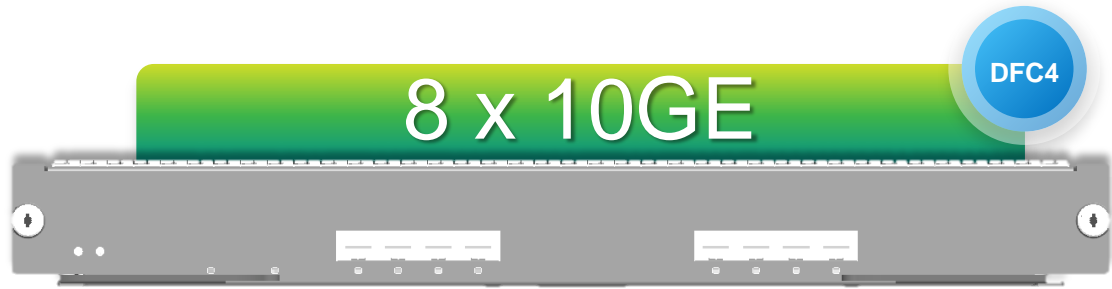
6500-E	6807-XL
80G/Slot	80G/slot

Built in Hardware:
MACsec, SGT, LISP, PTP, VSS & FEX

Supported by Sup2T & interoperable with 6700, 6800 & 6900 Cards

REVERSE SFP-QSFP ADAPTER

UPGRADE YOUR 10G PORTS TO 40G!
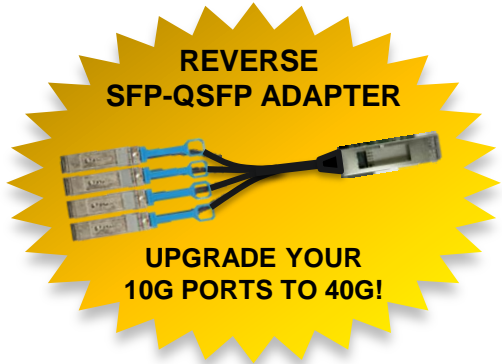
It's Real! ☺

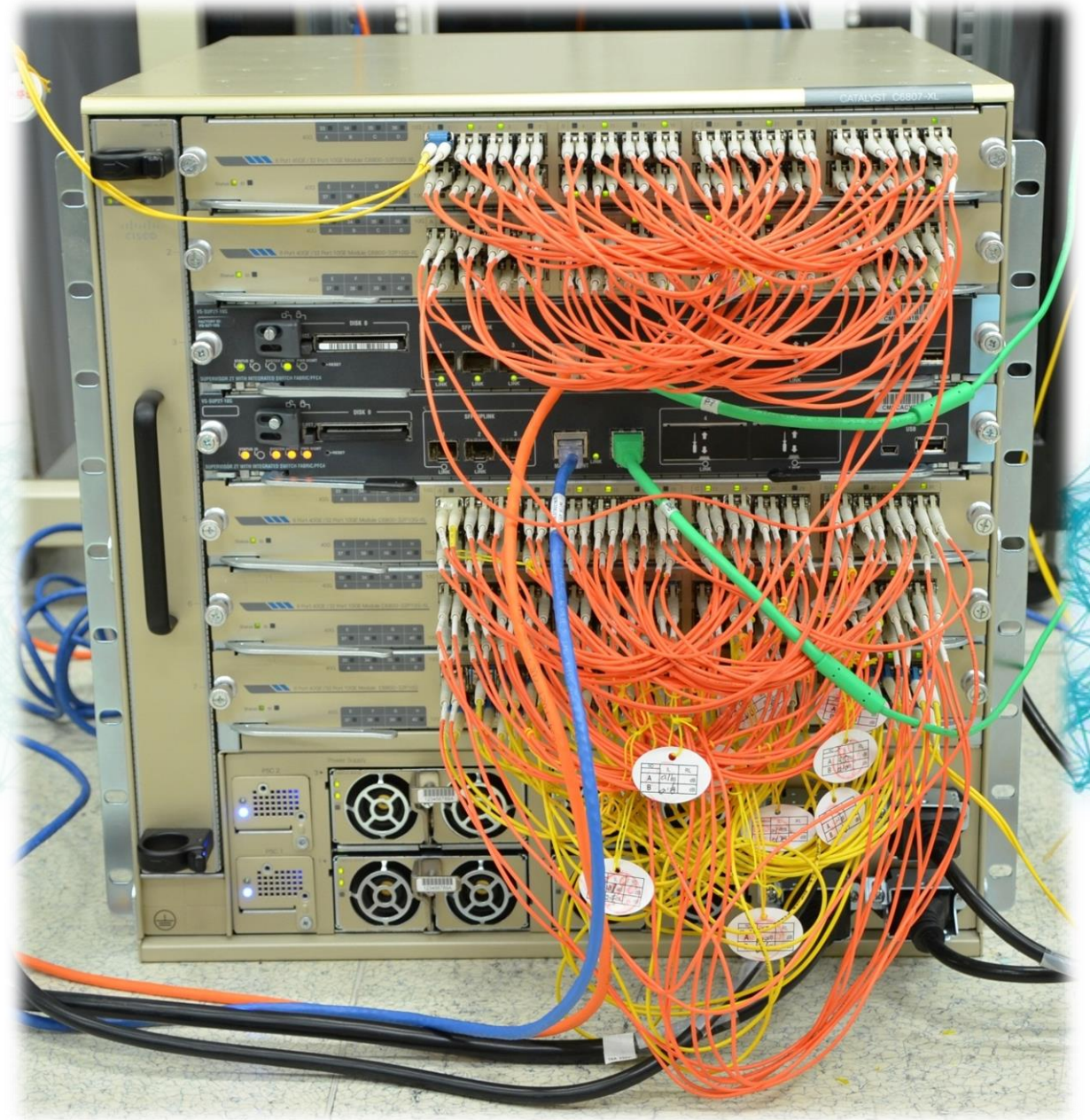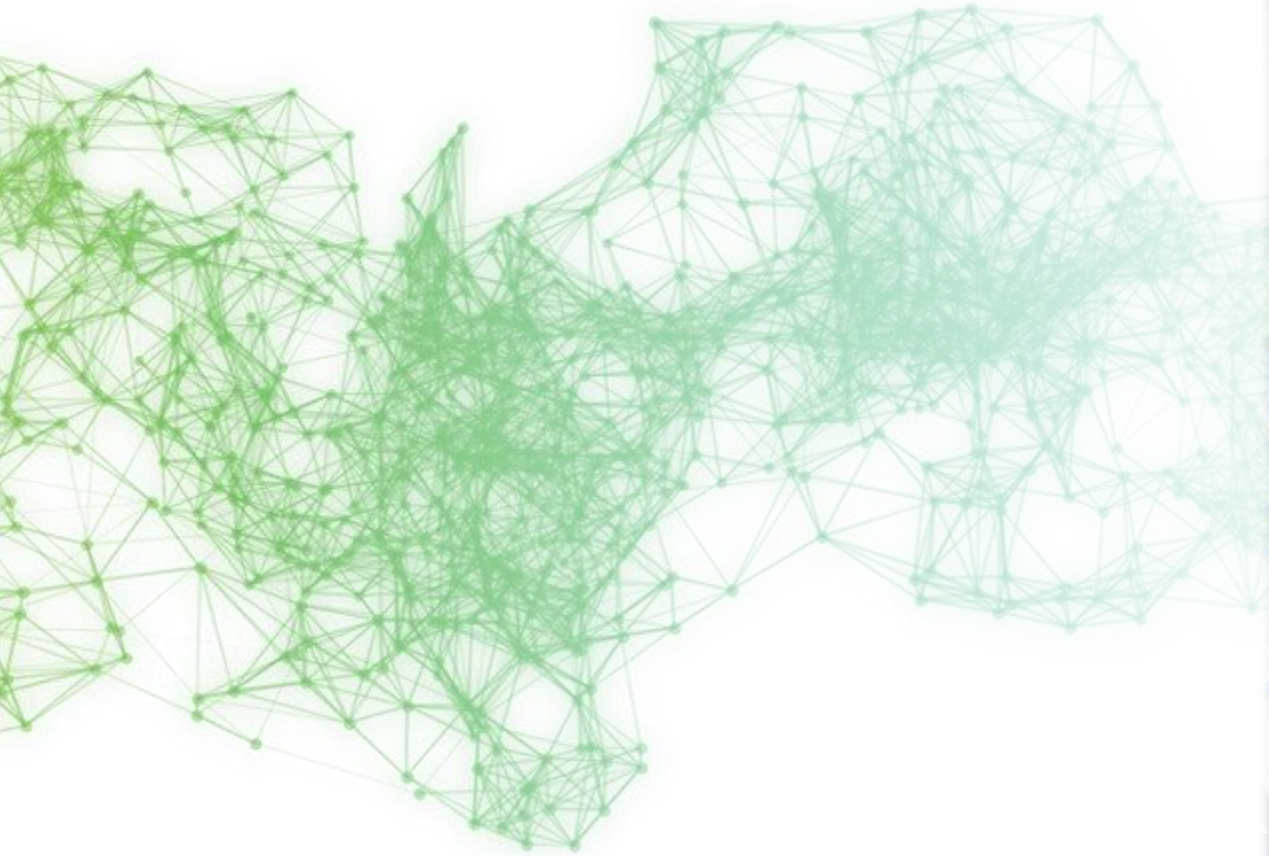Fully loaded C6807-XL with the new 32x10G module

Catalyst 6880-X
Base Board and System Controller

Two HW Options	6880-X-LE	6880-X
IPv4/v6 Routing Capability	256K/128K	2M/1M
Multicast Routes (IPv6)	64K	256K
Number of Adjacencies	256K	1M
MAC Addresses	128K	128K
Security and QoS ACL	64K	256K
Flexible NetFlow	512K	1M
Microflow Policers	512	512
Aggregate Policers	8K	8K

System
Base Board
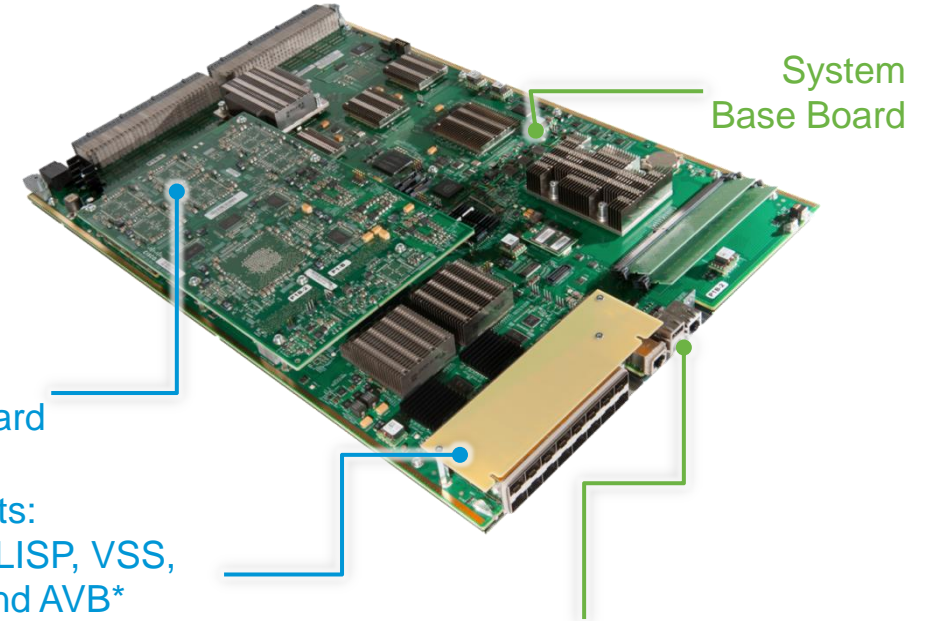
Forwarding
Daughter Board

16 SFP+ Ports:
MacSec, IA, LISP, VSS,
SGT, 1588 and AVB*
Available on Every Port

USB Host (Type A)
USB Console (Type B)
RJ-45 Console and Management Ports

* Under Investigation

Enhanced Control-Plane Scale with New
X86 2.0GHz Dual Core CPU

16-Port SFP+ Multi-Rate Port Card
Supports Between 1Gbps–40Gbps

Port Card
Base Board

Forwarding Engine
Daughter Board

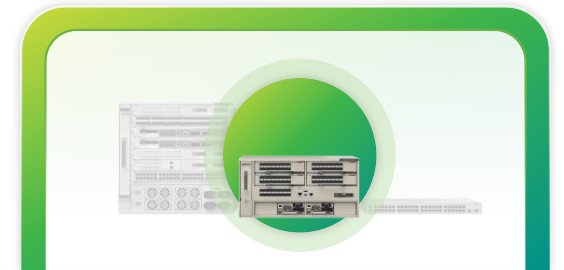| Two HW Options	Standard (LE)	Large Tables
IPv4/v6 Routing Capability	256K/128K	2M/1M
Multicast Routes (IPv6)	64K	256K
Number of Adjacencies	256K	1M
MAC Addresses	128K	128K
L3 Interfaces	128K	128K
Security and QoS ACL	64K	256K
Flexible NetFlow	512K	1M
Microflow Policers	512	512
Aggregate Policers	8K	8K
Port Buffering	24MB / Port	24MB / Port

Port Speed and Type	Number of Ports
1000 Mb/s Copper	16 (GLC-T SFP)
1 Gb/s Fiber	16 (SFP)
10 Gb/s Fiber	16 (SFP+)
40 Gb/s Fiber	4 (SFP-QSFP)

MacSec, Instant Access, LISP, VSS, SGT, 1588 Capable on Every Port

Catalyst 6800 Series
Over 3000+ Catalyst 6500 Features

MPLS, VPLS & EVN

Feature	
10 + Year MPLS Maturity	✓
L2 VPN	✓
L3 VPN	✓
L2/L3 VPN over mGRE	✓
MPLS TE	✓
VPLS/A-VPLS/H-VPLS	✓
Label Switch Multicast	✓
MACsec over EoMPLS	✓
MPLS at Access with I-Sat	✓
VRF-Lite	✓
EVN	✓
VRF-Aware Multicast	✓
VRF-Aware NetFlow	✓

Next-Gen Solutions

Feature	
FEX Controller	✓
L2 Campus LISP	✓
L3 Campus LISP	✓
SDN / ONEpk	✓
Smart Install Director	✓

VSS & HA

Feature	
5+ Year VSS Maturity	✓
MACsec on VSL	✓
1G/10G/40G VSL	✓
NSF & NSR	✓
BGP PIC	✓
BFD on SVI & MEC	✓

Catalyst 6800 Series

QoS & Security

Feature		Feature	
MACsec & SGT	✓	DHCP Snooping	✓
SGACL & L3 SGT	✓	Dynamic ARP Inspection	✓
Ingress/Egress ACL	✓	Span with ACL	✓
Time-Based ACL	✓	Identity 2.0	✓
ACL Statistics	✓	ACL-Based QoS Classification	✓
Port Security	✓	Marking (DSCP/COS)	✓
IPv6 FH Security	✓	Microflow Policing	✓
ACL Atomic Commit/Dry Run	✓	Advanced CoPP	✓
IPv6 uRPF	✓	IPv6 VACL	✓

IPV4 Unicast

Feature	
OSPFv2/v3	✓
OSPFv3 VRF-Lite	✓
VRF-Aware Unicast	✓
IP Tunnel HA	✓
BFD SVI-GRE	✓
BGP PIC	✓

IPV4 Multicast

Feature	
IGMPv3 and MLDv2 Snooping in HW	✓
PIM-SM "Dual-RPF" in HW	✓
PIM-DM, PIM-Bidir	✓
PIM-Bidir, PIM Snooping	✓
PIM Register in HW	✓
mVPN, MSR, mcast BFD	✓

IPV6 Features

Feature		Feature	
IPv6–IPv4 HW Parity	✓	IPv6 in IPv4 Tunnels, VRF-Aware IPv6 Tunnels	✓
OSPFv3 VRF PE-CE	✓	BGPv6, IS-ISv6	✓
MLD, MLD Snooping	✓	6VPE and 6PE	✓
IPv6 Mcast HA	✓	PIM Sparse Mode (PIM-SM)	✓
IPv6 SLA, TCL, LLDP	✓	IPv6 QoS, PACL, RACL	✓

Large Tables & Scalability

IPv4 Routing Capability	**64K-2M**
Multicast Routes (IPv4)	64K-256K
Number of Adjacencies	256K-1M
MAC Addresses	128K
ECMP (v4 and v6)	16
Security & QoS ACL	64K-256K
Flexible Netflow	128K-5M
MPLS Label Push/Pop in 1pass	5/3
Aggregate Policers	8K
Number of VPNs	16K

Rich Media

Feature	
Flexible NetFlow	✓
Egress NetfFow	✓
Sampled NetFlow	✓
NDE (Full & Sampled)	
Video Monitoring	✓
Mediatrace	✓
Metadata QoS	✓
Multicast Service Reflection (MSR)	✓

Management & Services

Feature	
WCCPv3	✓
PBR IPv4/IPv6	✓
NAT/PAT	✓
GRE	✓
ERSPAN	✓
GOLD	
ISE	
Cisco Prime	
Mini Protocol Analyzer	✓

15.1(2)SY Release

Campus FEX Solution
- Catalyst Instant Access Switch (C6800IA-48FPD)
- Catalyst Instant Access POE+ Switch (C6800IA-48TD)

Medianet Support for Supervisor 720

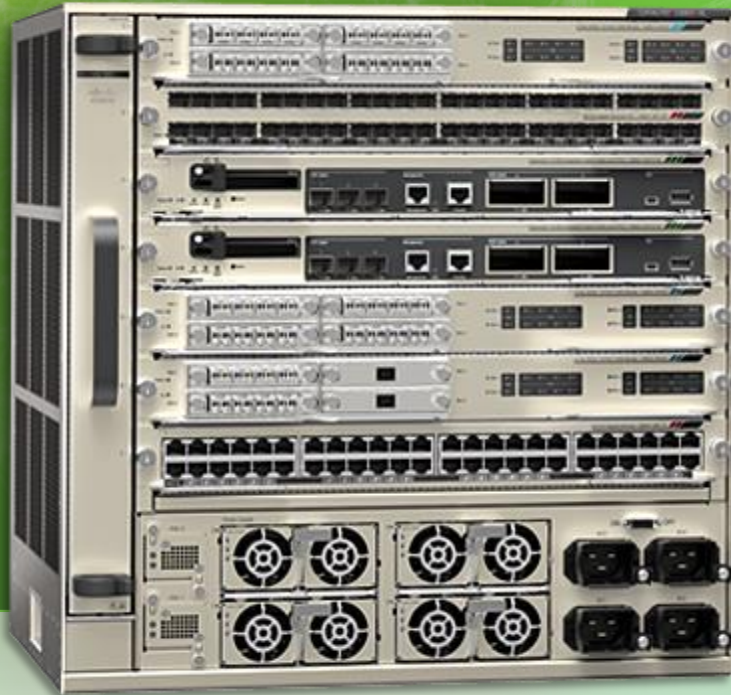## Cisco Service Discovery Gateway (mDNS Bonjour Support)

DWDM-SFP10G Support for WS-X6904-40G-2T Module

Multicast Enhancements – MoFRR, MVRFv6 Lite, MVPNv6

Routing Enhancements – OSPFv3 NSR, EIGRP IPv6 GR

System Manageability Enhancements

https://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps708/product_bulletin_c25-729554.html

Reinventing the Backbone Experience

Catalyst 6800 Series
The Next Generation campus backbone is here!

Priced to Compete
Aggressive services and bundle pricing!

Nonstop Innovation
Strong hardware and software roadmap with more to come!

Virtual Switching System (VSS)
Overview

Polling Question 2
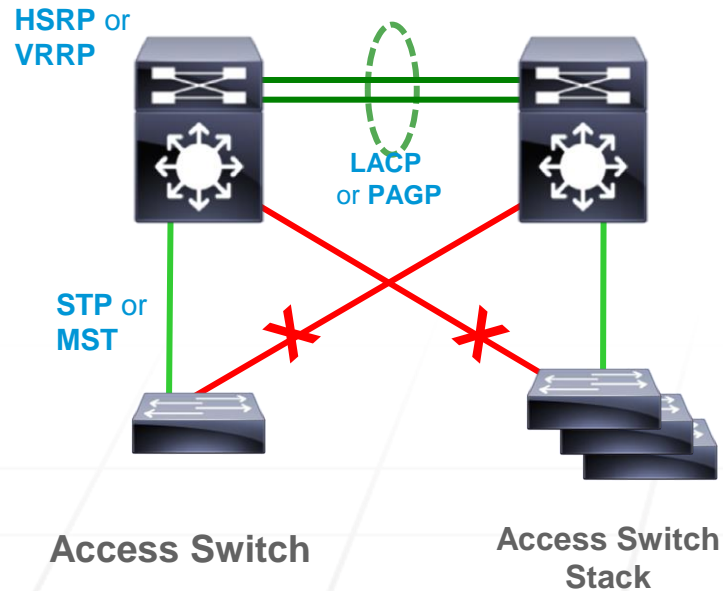
What is your level of experience with Catalyst Virtual Switching System (VSS)?

a) I am not familiar with Catalyst (single-chassis) SSO or VSS.

b) I am familiar with Catalyst (single-chassis) SSO, but I'm not familiar with VSS.

c) I'm playing with Catalyst VSS in the lab.
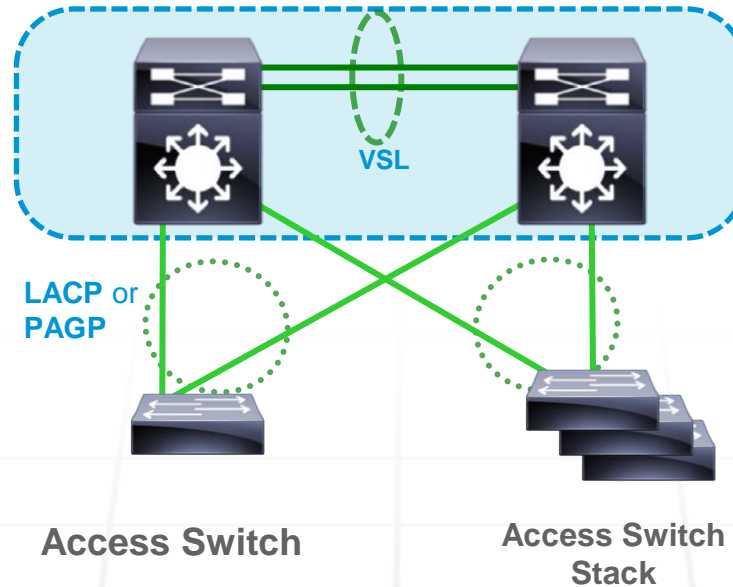
d) I'm running Catalyst VSS in production.

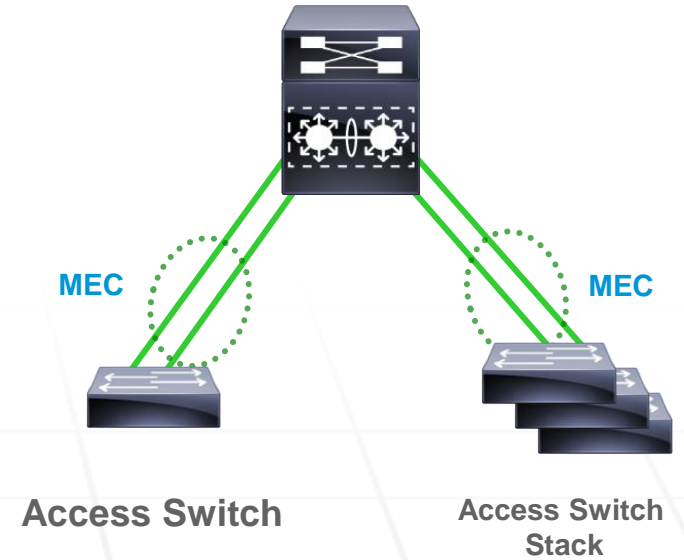# Catalyst Virtual Switching System
Topology Comparisons

Traditional

VSS - Physical

VSS - Logical

HSRP or VRRP

LACP or PAGP

STP or MST

VSL

LACP or PAGP

MEC

MEC

Access Switch

Access Switch Stack

Access Switch

Access Switch Stack

Access Switch

Access Switch Stack

Benefits of Virtual Switching

Simplify Operations by Eliminating STP, FHRP and Multiple Touch-Points

Double Bandwidth & Reduce Latency with Active-Active Multi-chassis EtherChannel (MEC)

Minimizes Convergence with Sub-second Stateful and Graceful Recovery (SSO/NSF)

Catalyst Virtual Switching System (VSS)
Simplified Next-Gen Campus Architecture

Standalone Challenges

~~STP Loop~~
~~FHRP~~
~~FHRP Tunings~~
~~PIM DR Priority~~
~~PIM Tunings~~
~~Protocol Dependent Scale~~
~~Unicast Flooding~~
~~Asymmetric Forwarding~~
~~Network/System Redundancy Tradeoff~~
~~Protocol Dependent Recovery~~
~~CAM/ARP Tunings~~
~~OSPF LSA/SPF Tuning~~
~~Control/Mgmt/Forwarding Complexities~~
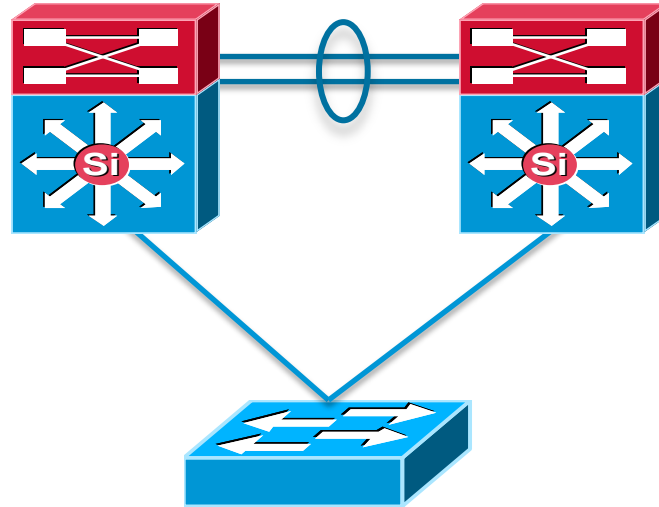
Additional VSS Benefits

Network/System Level Redundancy
Scale-independent Recovery
Hardware Dependent Recovery
Increase Unicast Capacity
Increase Multicast Capacity
Simplified Network Topologies
Control-plane Simplicity
Operational Simplicity
L2-L4 Load Sharing
Flat L2 Network

System Redundancy with SSO/NSF
## Single and Dual Chassis Sup Redundancy
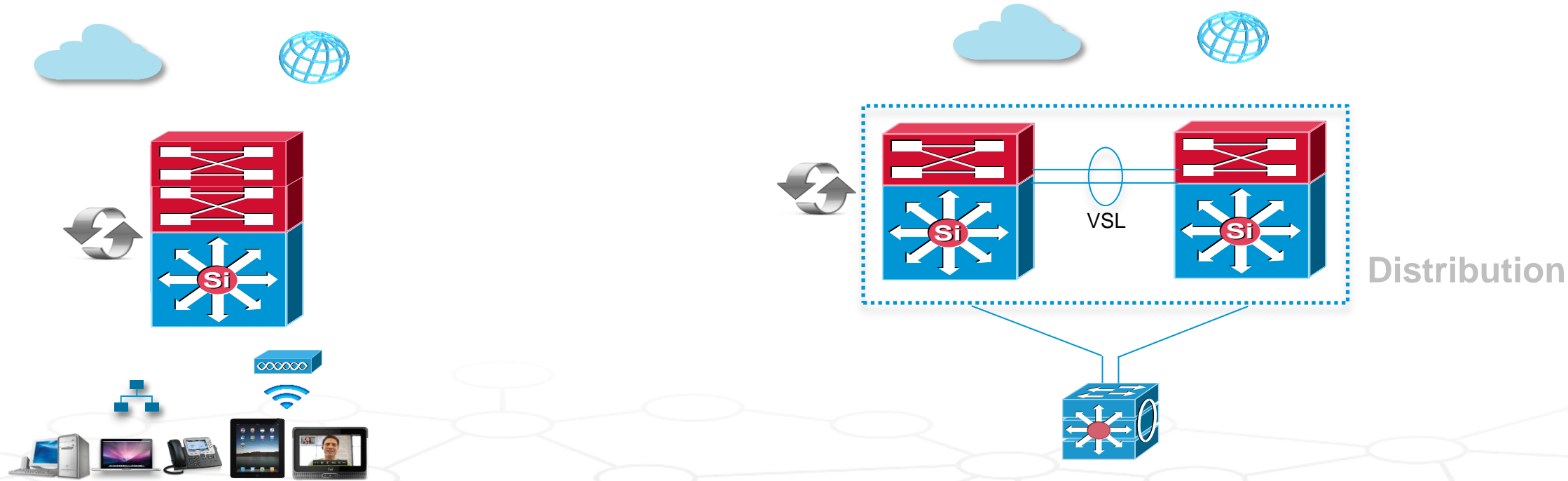
Access

Distribution

VSL

- Non-Redundant Systems are Single-Points-Of-Failure

- Single-chassis Redundant Supervisors provide System-level Stateful & Graceful redundancy

- Protects network services, capacity and availability for Wired and WLAN end-points

- Cisco VSS provides inter-chassis redundancy

- Redundant Supervisors between both chassis provides VSS Stateful & Graceful redundacy

- Protects network services and availability at Access layer with redundant paths

Operational Resiliency with ISSU
Delivering 99.999% Network Uptime

Mismatch IOS Version
During Software Upgrade

Access

VSL

Distribution
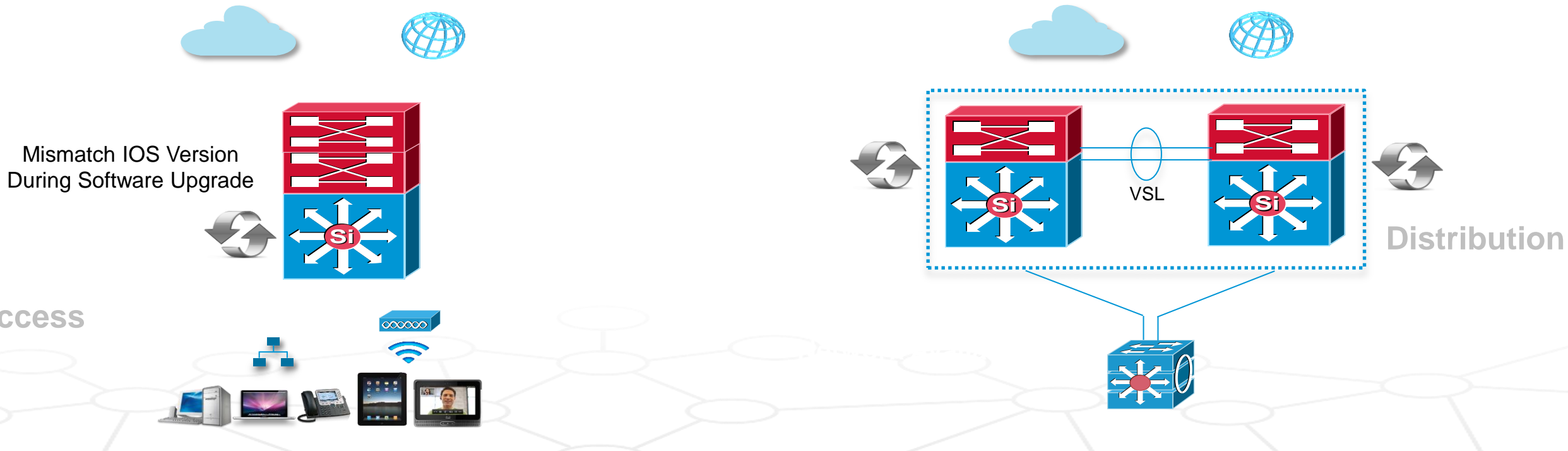
- Dual-Supervisor requires software consistency

- ISSU provides real-time single-chassis software upgrade. Reduces MTBF

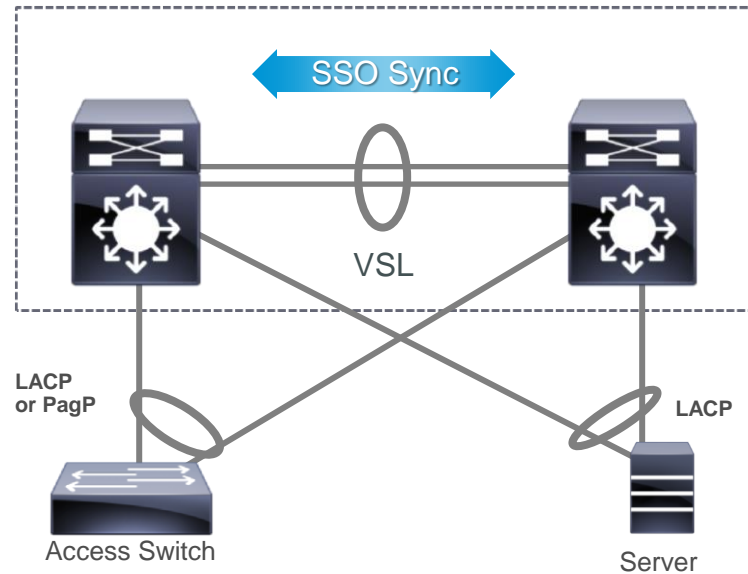- Protects network services, capacity and availability for Wired and WLAN end-points

- Cisco VSS requires software consistency

- eFSU provides real-time dual-chassis software upgrade. Reduces MTBF

- Protects network services and availability at Access layer with redundant paths

VSS Quad Sup SSO

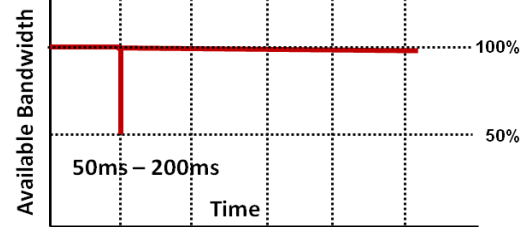Provide Optimal Business Continuity for BYOD & Collaboration

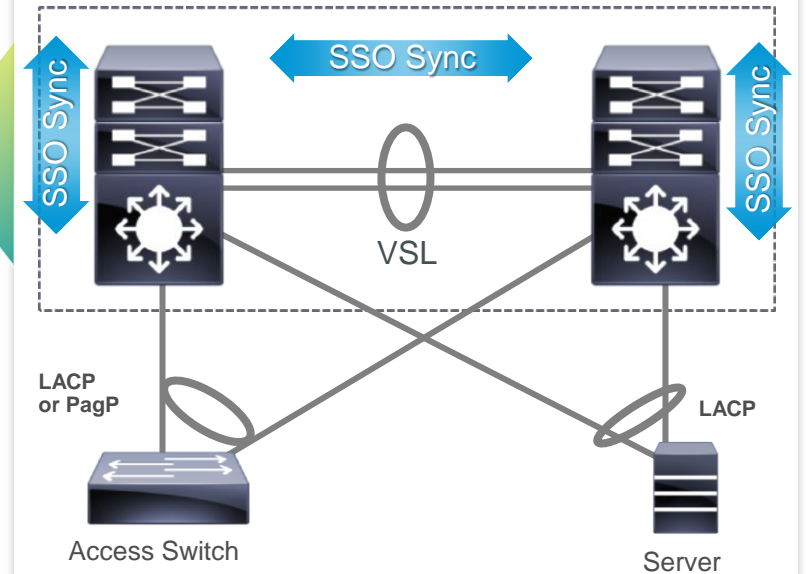| 15.1(1)SY1	Support
Sup2T	YES
Sup720	NO

Traditional VSS

SSO Sync

VSL

LACP or PagP

LACP

Access Switch

Server

Available Bandwidth

100%

50%

50ms – 200ms

Time

Available Bandwidth

100%

50%

Time

VSS Quad SUP SSO

SSO Sync

SSO Sync

SSO Sync

VSL

LACP or PagP

LACP

Access Switch

Server

Inter-Chassis SSO & MEC

- If SSO Active Supervisor or Chassis fails, the SSO Standby Supervisor & Chassis will ensure all MEC remain operational

- Assumes Dual-Attach (MEC) Links! Any Single-Attach Links and local Modules are down until local Chassis is restored

Maximized Bandwidth

- Traditional VSS with MEC maintains Network Topology (no convergence), but bandwidth drops to 50% until restoration

- VSS Quad Sup SSO with MEC maintains all Modules & Links for 100% bandwidth – convergence is only 50-200ms

Intra-Chassis SSO & MEC

- SSO between VSS Chassis, and SSO between In-Chassis Active & In-Chassis Standby Supervisors.

- Maintains all local Modules & Links, to support Single-Attach and different Service-Modules

Instant Access (IA)
Overview

Polling Question 3

What is your level of experience with Catalyst Instant Access (FEX)?

a) I am familiar with Catalyst VSS, but I have no idea about Instant Access.

b) I am familiar with Nexus FEX, but I have no idea about Instant Access.

c) I'm playing with Catalyst VSS & Instant Access in the lab.

d) I'm running Catalyst VSS & Instant Access in production.

IT Spends Most of Their Time in Repetitive Operational Actions for Access Switches

INTRODUCING

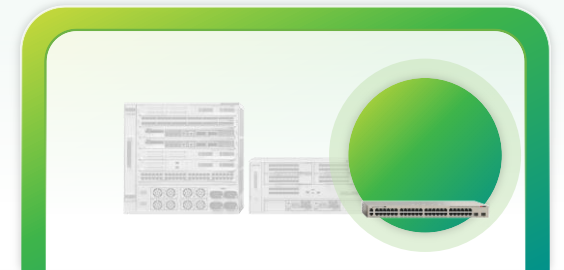## Campus Instant Access

28%
MONITORING, TROUBLESHOOTING

19%
SECURITY CONFIGURATIONS

18%
INITIAL INSTALL, CONFIGS, TESTING

14%
UPGRADING EQUIPMENT

Source: A commissioned study conducted by Forrester Consulting for Cisco Systems, 2012
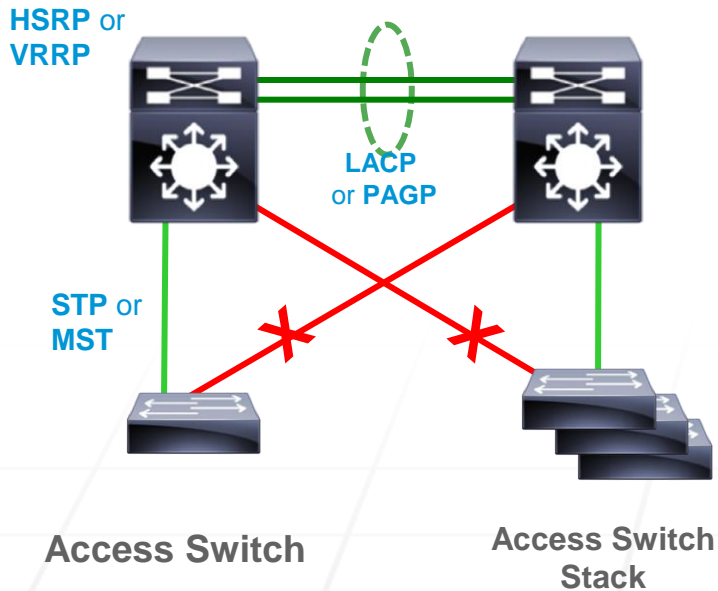
Simple Install and Connect
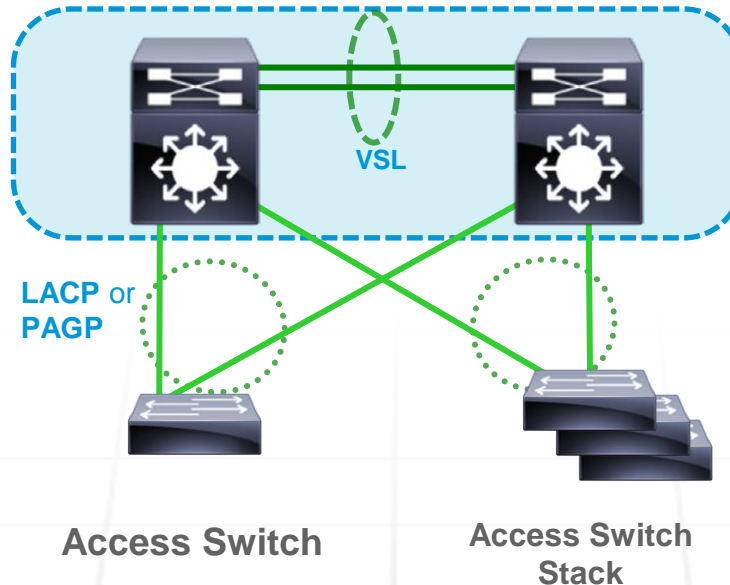
No More Repetitive Operations

Catalyst Instant Access
Topology Comparisons

Traditional

HSRP or VRRP

LACP or PAGP

STP or MST

Access Switch

Access Switch Stack

VSS

VSL

LACP or PAGP

Access Switch

Access Switch Stack
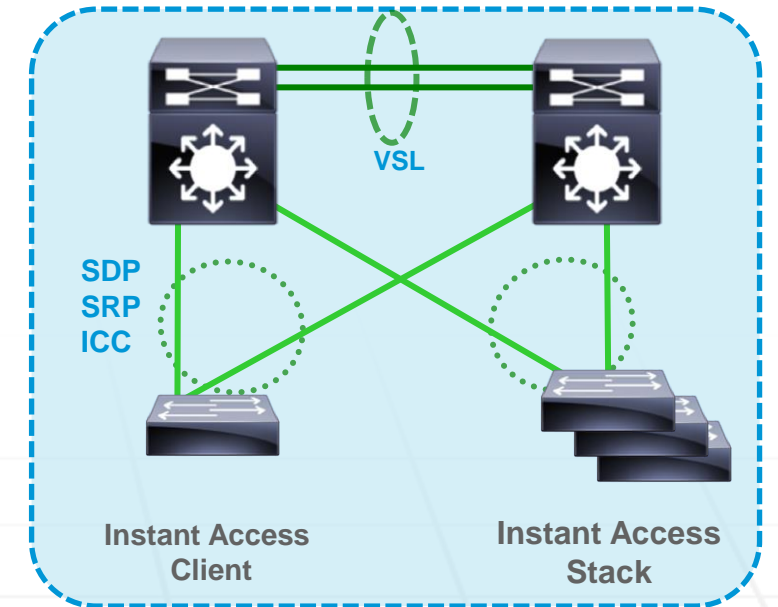
Instant Access

VSL

SDP SRP ICC

Instant Access Client

Instant Access Stack

Benefits of Instant Access

Simplify Operations across Entire Distribution POD

Deploy Premium Catalyst 6800 features at Access Layer

"Grow as you Go" with full "Plug & Play" IA client provisioning

Catalyst Instant Access – Key Components
Instant Access Director & Client

INSTANT ACCESS PARENT

| Catalyst 6500-E | + | Sup2T | + | 6904 | + | FourX |

| Catalyst 6807-XL | + | Sup2T | + | 6904 | + | FourX |

Catalyst 6880-X

INSTANT ACCESS CLIENT

Catalyst 6800IA

STACK up to 3

RIGHT-SIZED, GROW-AS-YOU-GO NETWORKING!

Catalyst Instant Access
Simplified Configurations

Catalyst 6500/6800 VSS

FEX 101   FEX 102   FEX 103   FEX 104

Catalyst 6800ia   Catalyst 6800ia   Catalyst 6800ia   Catalyst 6800ia
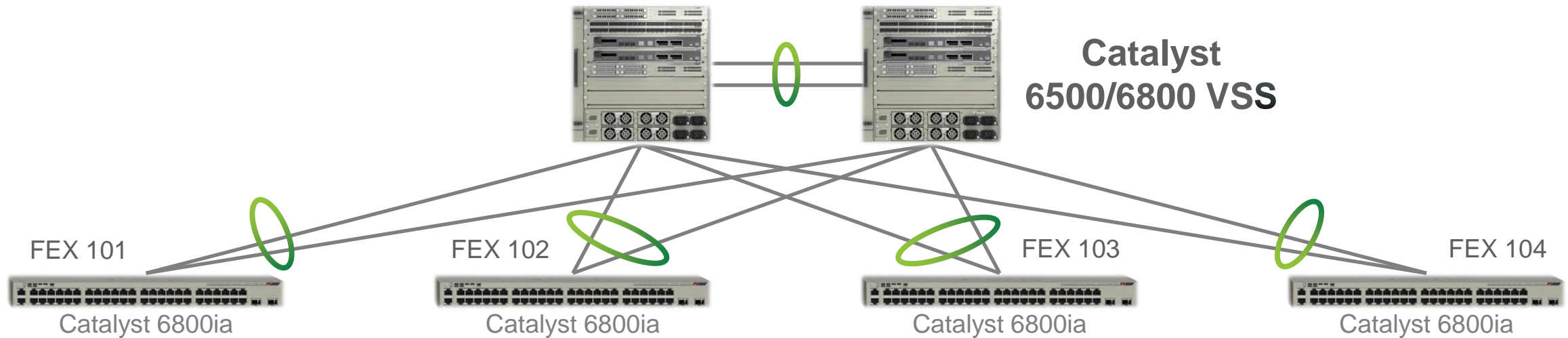
Config on Parent:

```
interface Port-channel101
 switchport mode fex-fabric
 fex associate 101
!
interface Port-channel102
 switchport mode fex-fabric
 fex associate 102
!
interface GigabitEthernet101/1/0/1
 switchport mode access
 switchport access vlan 101
!
interface GigabitEthernet102/1/0/1
 ip address 102.1.1.1 255.255.255.0
 ipv6 address 2013:102:1:1:1::1/96
```
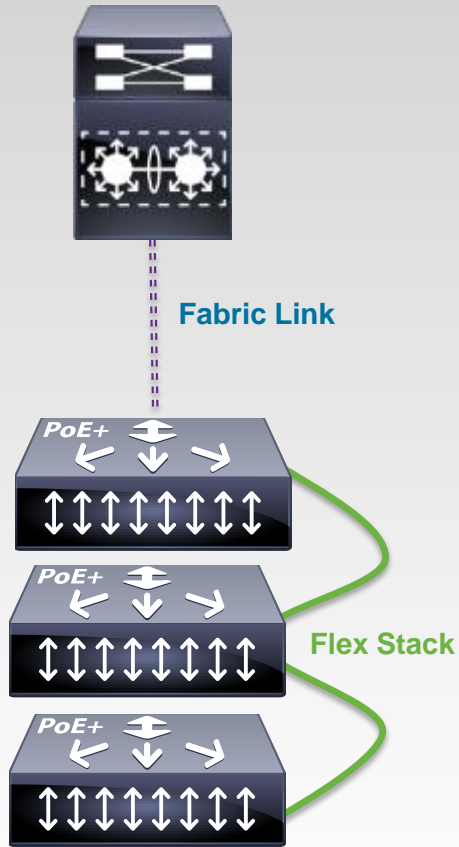
No Configuration @ Access Switches!

No Trunks Configured @ Access to Distribution!

Instant Access Capabilities
Differences From DC FEX

FEX STACKING

Fabric Link

PoE+

Flex Stack

PoE+

PoE+

POE/POE+ CAPABILITY

PoE+

PoE+

REMOTE SWITCHES

PoE+

PoE+

spanning-tree
bpduguard disable
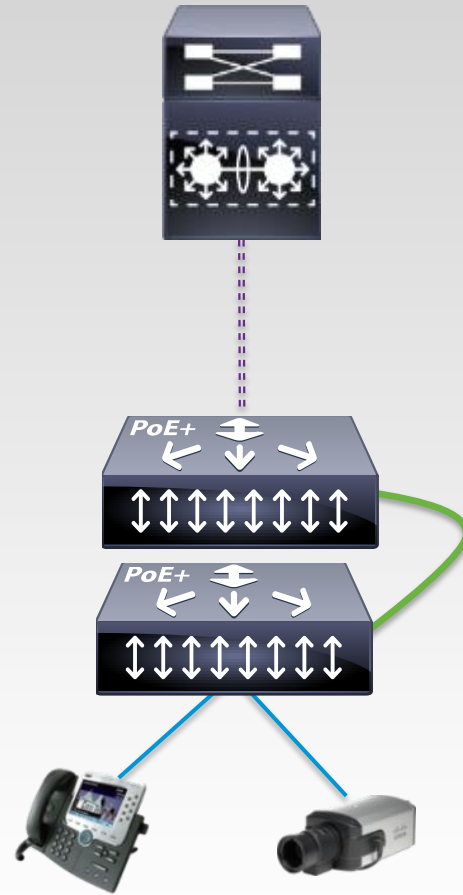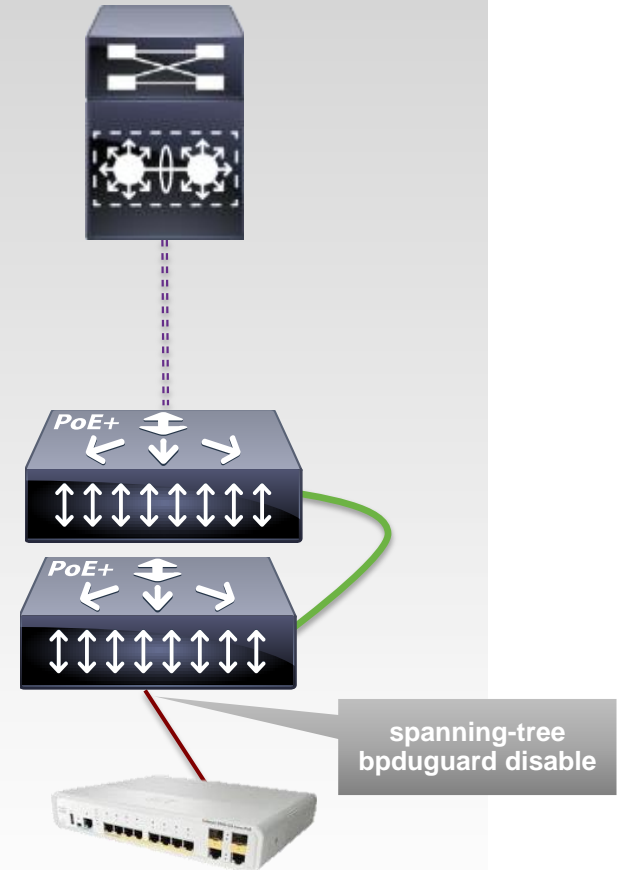
LIVE DEMO!!
Catalyst 6800 with
VSS & Instant Access
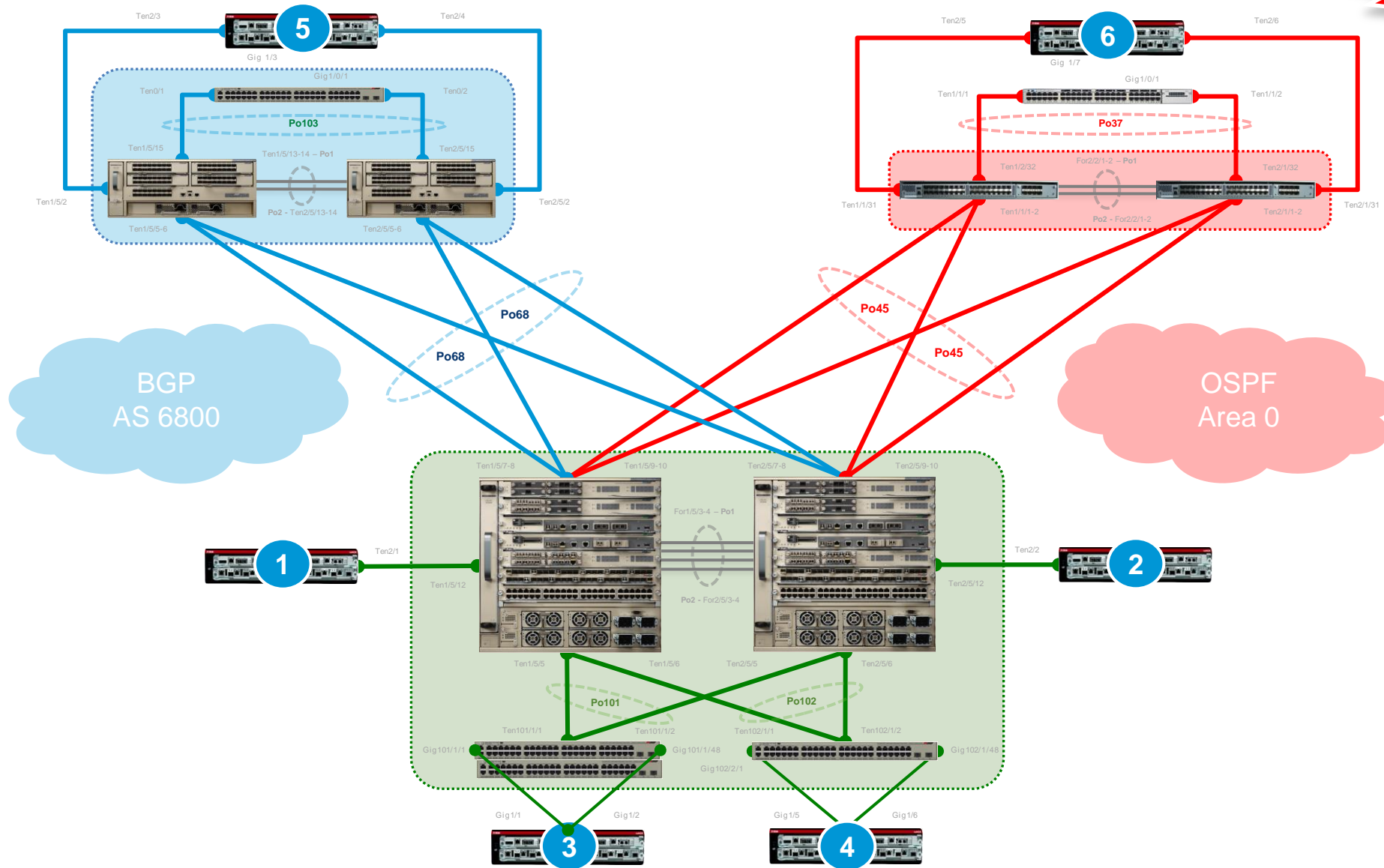
Submit Your Questions Now!

Use the Q&A panel to submit your questions. Experts will start responding those

43

We Appreciate Your Feedback!

Those who fill out the Evaluation Survey will enter a raffle to win:

Cisco Press eBook
(value up to $80 USD)

To complete the evaluation, please click on link provided in the chat or in the pop-up once the event is closed.

Ask the Experts Event
(with Vivek Baveja and Shawn Wargo)

If you have additional questions, you can ask them to Vivek and Shawn. They will be answering from February 3 through February 14, 2014.
https://supportforums.cisco.com/thread/2263952

You can catch the video or read the Q&A five business days after the event at
https://supportforums.cisco.com/community/netpro/ask-the-expert/webcasts

Trivia Question (Select the correct answer)

What do the Euro and the Cisco Catalyst 6000 Series Switches have in common?

A. The Euro was introduced in 1999, the same year the Cisco Catalyst 6000 was released.

B. The Euro zone phased out previous currencies in favor of the Euro in 2002, the same year the Catalyst 6000 series was released.

C. The Euro was introduced in 1997, the same year the Cisco Catalyst 3000 and 6000 series were released.

February Expert Series Webcast – Russian

Topic: Advanced Features of Cisco Unified Border Element - Configuration and Troubleshooting

Tuesday, February 11

12:00PM Moscow Time

 9:00AM Brussels Time

Join Cisco Expert:

Vladimir Savostin

During this webcast Technical Assistance Center (TAC) expert Vladimir Savostin will present a number of recent features of Cisco Unified Border Element with a focus on configuration and troubleshooting.

Registration for this live webcast:

http://tools.cisco.com/gems/cust/customerSite.do?METHOD=E&LANGUAGE_ID=R&SEMINAR_CODE=S19807&PRIORITY_CODE=

February Expert Series Webcast – Portuguese

Topic: Cisco Nexus Virtual PortChannel (vPC)

Wednesday, February 12

11:00 a.m. Brasilia City Time

 1:00 p.m. West Lisbon

 5:00 a.m. San Francisco

 8:00 p.m. New York

Join Cisco Expert:

Felipe Lima

During this live event, Felipe will provide the basic concepts offered by the Cisco Nexus Virtual PortChannel (vPC) features.

Registration for this live webcast:

http://tools.cisco.com/gems/cust/customerSite.do?METHOD=E&LANGUAGE_ID=P&SEMINAR_CODE=S19845&PRIORITY_CODE=

February Expert Series Webcast – English

Topic: Troubleshooting Common Features of UCS and Nexus 1000v

Wednesday, February 19

10:00 a.m. PDT San Francisco

1:00 p.m. EDT New York

6:00 p.m. London

7:00 p.m. Paris

Join Cisco Expert:

Vishal Mehta

During this live event, Cisco subject matter expert Vishal Mehta will cover UCS and Nexus 1000v features from a perspective of configuration, performance, best practices, and troubleshooting.

Registration for this live webcast:

http://tools.cisco.com/gems/cust/customerSite.do?METHOD=E&LANGUAGE_ID=E&SEMINAR_CODE=S19850&PRIORITY_CODE=

February Expert Series Webcast – Spanish

Topic: IOS-XR - Installing and Upgrading Software and Introduction to Cisco Software Manager

Tuesday, February 25

 9:00 a.m. Mexico City

 10:30 a.m. Caracas

 12:00 p.m. Buenos Aires

 5:00 p.m. Madrid

Join Cisco Expert:

Sergio Barragan

During this live event, Sergio will present Turboboot methods, CLI installation and IOS SR system upgrade.

Registration for this live webcast:

http://tools.cisco.com/gems/cust/customerSite.do?METHOD=E&LANGUAGE_ID=S&SEMINAR_CODE=S19871&PRIORITY_CODE

March Expert Series Webcast – Japanese

Topic: OSPF Introduction

Tuesday, March 4

10:00 a.m. JST Tokyo

or

Monday, March 3

5:00 p.m. San Francisco

Join Cisco Expert:

Tsuyoshi Suzuki

During this live event, Tsuyoshi will provide an overview of OSPF, how it works, terminologies and features to learn, and noteworthy points needed to learn when pursuing CCNA certification..

Registration for this live webcast:

http://tools.cisco.com/gems/cust/customerSite.do?METHOD=E&LANGUAGE_ID=J&SEMINAR_CODE=S19864&PRIORITY_CODE

Ask the Expert Events – Current English

Topic: Troubleshooting Unified Contact Center Enterprise

Join Cisco Experts: **Goran Seltholfer**

Learn and ask questions about integrating Unified Contact Center Enterprise into your environment and troubleshooting the many features that are available.

Ends February 14

Topic: ASR9000 Hardware Architecture

Join Cisco Experts: **Satya Narra**

Learn and ask questions about software installation, SMU installation, ASR9000 architecture, installing (ASR9000 nv) and troubleshooting.

Ends February 14

Join the discussion for these Ask The Expert Events at:
https://supportforums.cisco.com/community/netpro/expert-corner#view=ask-the-experts

Ask the Expert Events – Upcoming English

Topic: Enterprise IPv6 Deployment

Join Cisco Experts: **Chip Nielsen**

Learn and ask questions about enterprise IPv6 deployment.

Starts February 17

Join the discussion for these Ask The Expert Events:

https://supportforums.cisco.com/community/netpro/expert-corner#view=ask-the-experts

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153/posts

http://itunes.apple.com/us/app/cisco-technical-support/id398104252?mt=8

https://play.google.com/store/apps/details?id=com.cisco.swtg_android

http://www.linkedin.com/groups/CSC-Cisco-Support-Community-3210019

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YSICAL%20FULFILLMENT%20Y/N=NO&SUBSCRIPTION%20CENTER=YES

We have communities in other languages

If you speak Spanish, Portuguese, Japanese or Russian we invite you to ask questions and collaborate in your language

- Spanish → https://supportforums.cisco.com/community/spanish

- Portuguese → https://supportforums.cisco.com/community/portuguese

- Japanese → https://supportforums.cisco.com/community/csc-japan

- Russian → https://supportforums.cisco.com/community/russian

Cisco Technical Support Mobile App

Global community members can collaborate with colleagues and other support professionals with easy, on-the-go access to the community's breadth of technical resources in their local language.

With the latest version of the mobile app, you can now access the Spanish, Portuguese, Japanese and Russians communities.

https://supportforums.cisco.com/community/netpro/online-tools/mobile-technical-support

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https://supportforums.cisco.com/community/netpro/idea-center/cafe/blog/2013/06/07/ratings-extended-to-documents-blogs-and-videos

Trivia Question (Select the correct answer)

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A. The Euro was introduced in 1999, the same year the Cisco Catalyst 6000 was released.

B. The Euro zone phased out previous currencies in favor of the Euro in 2002, the same year the Catalyst 6000 series was released.

C. The Euro was introduced in 1997, the same year the Cisco Catalyst 3000 and 6000 series were released.

Answer is A:

The Euro was introduced in 1999, the same year the Cisco Catalyst 6000 was released.

Thank You for
Your Time

Please Take a Moment to Complete the Evaluation

Thank you.