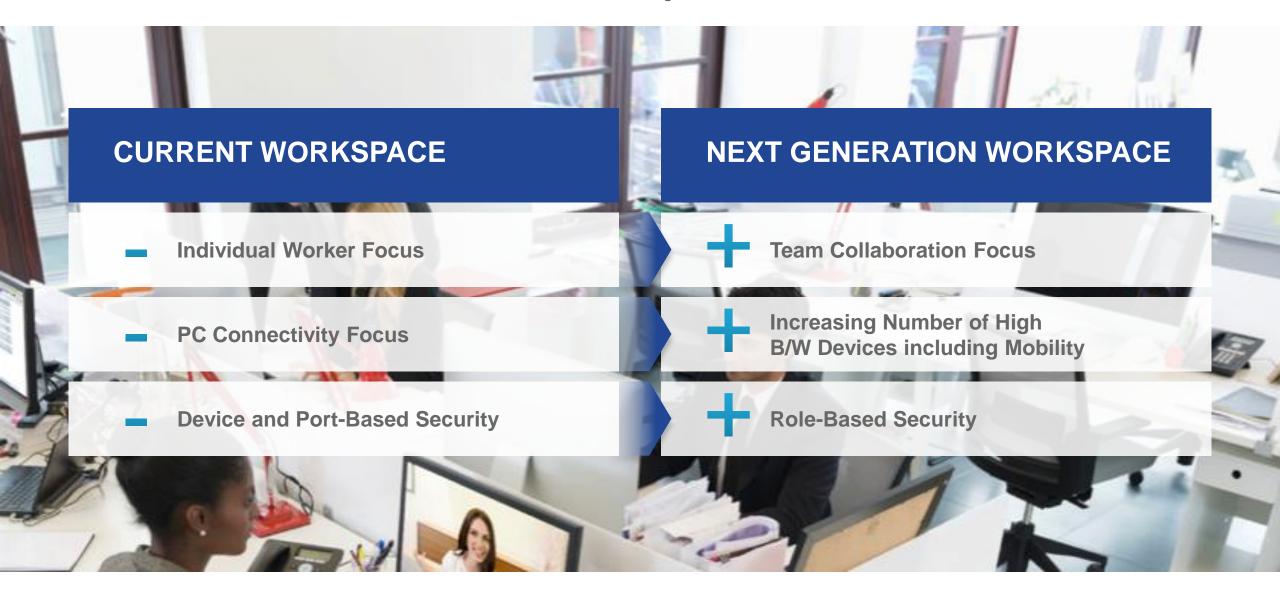


Fast IT. Fast Networks.

Redefine the Workspace

Sanjay Kumar Kundnani

Next Generation Workspace



Collaborative Work Spaces



Unique layouts

Far from the wiring closet

No dedicated room to mount the rack for networking gear

No prior cabling, old buildings etc.

Limited power outlets

Noiseless operation

Network reliability, failover support

Conference and Ad-hoc Training Rooms



Requirements

Many IP end points

Quiet working environment

Space constraints

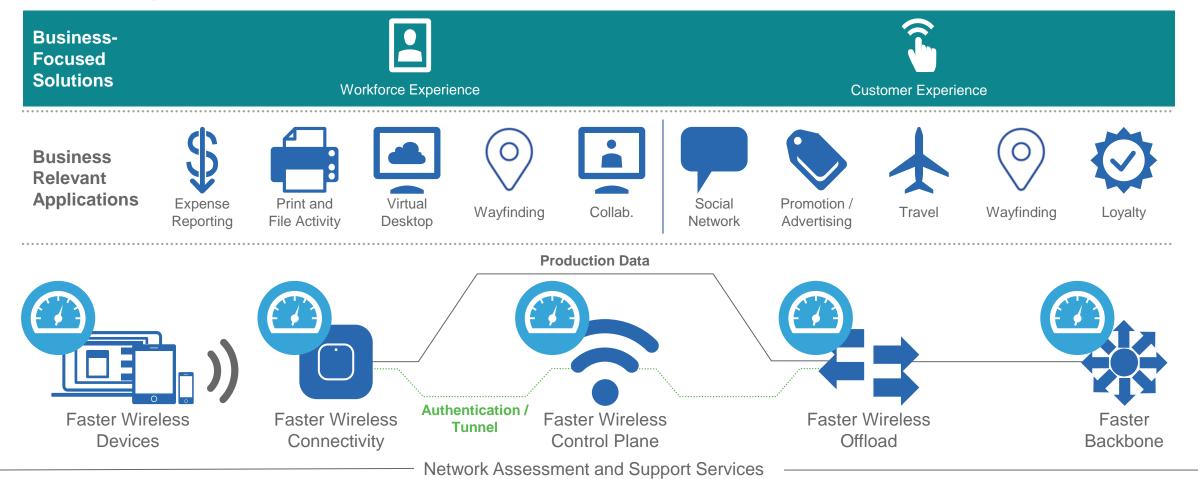
Wireless access

High speed end to end wired connectivity

Enterprise security

Simplified manageability

Looking Beyond Wireless For Large Wi-Fi Deployments



FASTER MOBILITY

Not Just A Wi-Fi Access Problem

The Tipping Point





NBASE-T Alliance





















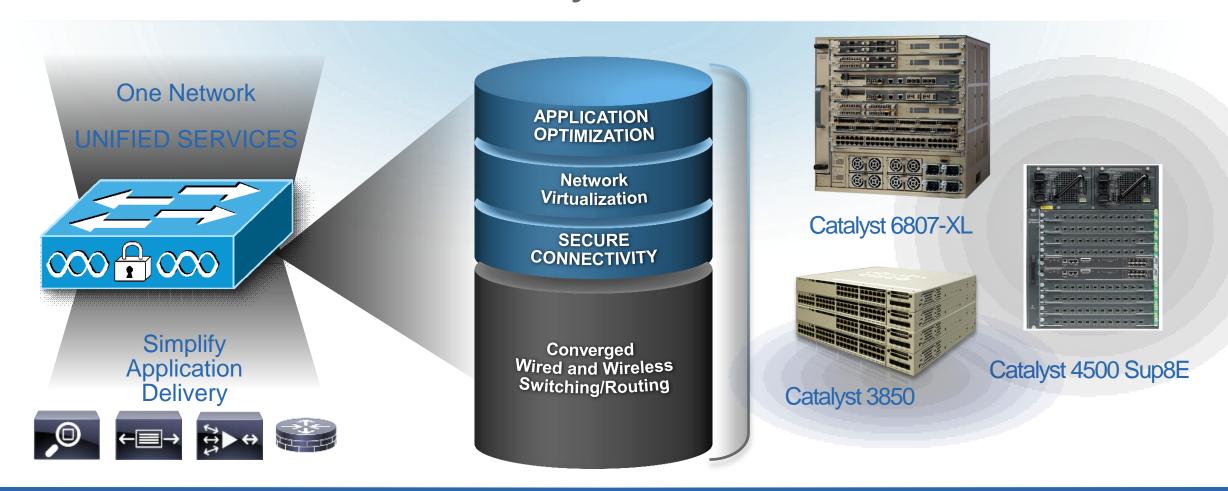








Start with Cisco Catalyst Switches



Capabilities Embedded in the Switch

What Is New?

Fast IT. Fast Mobility.

END-TO-END READINESS FOR NEXT-GEN MOBILITY FOR LARGE DEPLOYMENTS

802.11ac Wave 2-Ready Wireless



NEW!

Cisco Aironet 1850 Access Point



Future-Proofed For 802.11ac Wave 2: Access & Backbone



Catalyst 3850 10G Series Switches





Cisco Catalyst Compact Switches





Dramatically Reduce Cabling Costs



PoE+: Deploy Applications
Without Access
to Power Outlets



Small Form Factor for Easy Deployment



Fan-less: Providing Quiet, Pleasant Working Environment



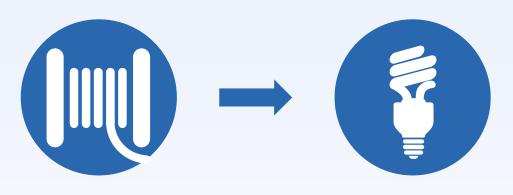
10G End-to-End Connectivity for Power Users and High-Performance Apps



Adaptable to New Business Requirements



Requirements from Power Source Equipment



High Voltage (110/227V) AC Wiring in the Ceiling

Requires High-Voltage Electrician

Low-Voltage Ethernet/ DC Wiring in the Ceiling

Better LED Lighting Experience, Lower TCO PoE switch (PoE+, 30W/port)

Mountable above the ceiling

Passive cooling: no fan, noiseless

8–24 ports

Management via SNMP (e.g., link status, PoE status)

Support for IEEE 802.3az (Energy-Efficient Ethernet)

Centralized Power Management Solution

Network Redundancy, Reliability

Deploying Cisco Compact Switches on ceilings is one alternative but not the only one



Perpetual Power over Ethernet

PoE devices connected to switch stay powered on even on switch reboot!

PoE devices continue to get last negotiated power

Minimum software version: 3.7E1 (H1CY2015)

Not applicable when switch is in hibernation mode





Cisco Catalyst 3850 10G Aggregation Switch Complements the recently launched 3850 Multigigabit switches

High Capacity for Next Generation Wi-Fi

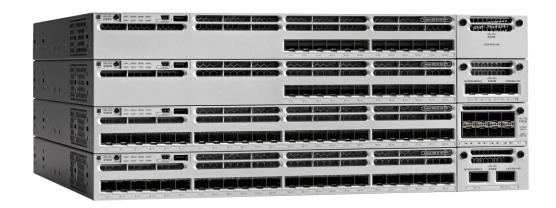
- Stackable 12-port and 24-port models of 10G ports
- Option to extend with New high capacity uplink modules 8x10G, 2x40G
- Standalone design with 48-port 10G with 4x 40G uplinks for high density deployments

Programmability and Manageability

- Built on innovative Unified Access Dataplane (UADP) ASIC architecture
- Stackable up to 480G, Stackpower*

Network Security and IT Simplicity

- Network as a Sensor with TrustSec and ISE
- Integrated with Prime Infrastructure for Converged Access







Cisco Catalyst 6840-X 10G/40G Backbone Switch Catalyst 6k in 2RU form factor

Fixed Full Featured Backbone Switch

- Available in 16, 24, 32 and 40 10G Port models
- 40G uplinksoptions
- Legendary 3000+ Catalyst 6500/6800 features from day One

Built for Manageability

- Instant Access for simplified management of access switch ports in a centralized configuration
- Uncompromised Security and Segmentation
 - Advanced Services with MPLS, VPLS, A-VPLS, LISP and EVN
- High Availability
- Robust availability with VSS, 1+1 power
 redundancy

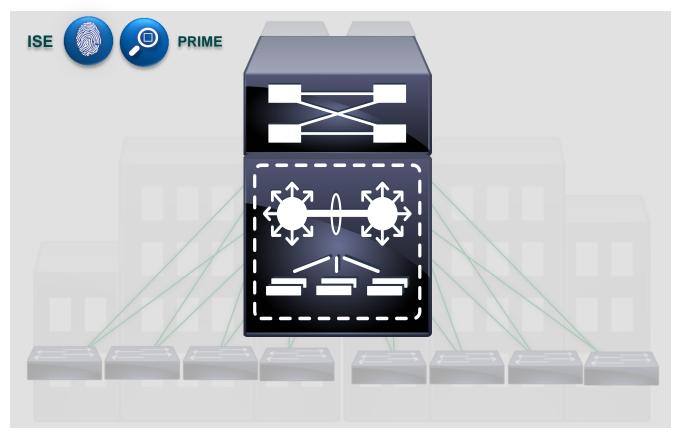




Smallest full featured MPLS backbone Catalyst switch!

Catalyst Instant Access

Managed Devices = 40+



500 Port Campus Distribution Block

Satellite Device capable of Stacking & POE+

Single Point of **Management, Configuration** and **Troubleshooting**

Simplified Network Design for VLANs and Port-Channels

Agile Infrastructure to add new features uniformly across Access Layer

A Single Image to Deploy and Manage across Distribution Block



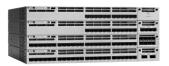
What's New: Catalyst Fixed 10G Switches

Preparing for the Impact of 802.11ac Wave 2

MODULAL

FIXED

Catalyst 3850 NEW 10G Fiber



12/24/48p 10G 1RU Aggregation

Catalyst 3850 1G Fiber



12/24p 1G 1RU Aggregation

Catalyst 4500-X



16p/32p 1 RU **10GE Aggregation** Catalyst 6880-X



Up to 80 10G Ports 5 RU Core





Up to 40 10G Ports 2RU, NG Backbone

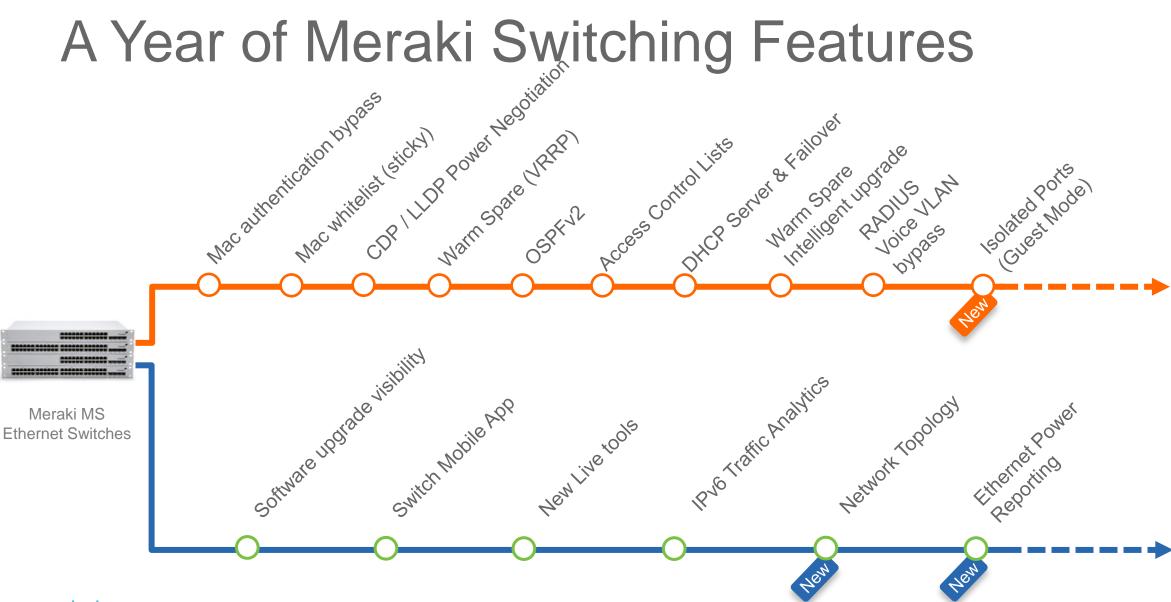
Catalyst 6807-XL/6500-E

- Comprehensive
- Borderless Feature Set
- Highest Performance and Scalability
- Lower TCO



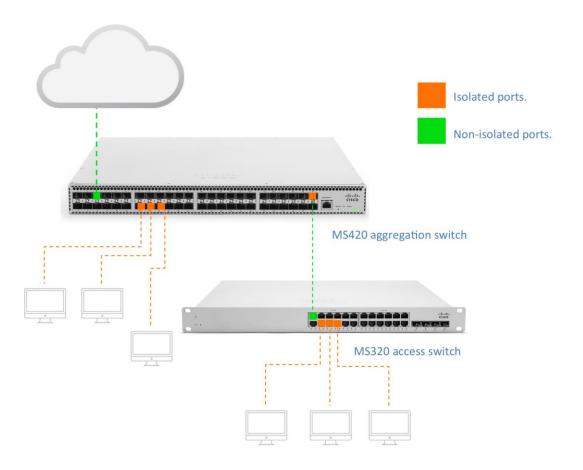


Industry-Leading Campus Backbone Platform





Isolated Ports (Guest Mode)



Simplify deployments in verticals like hospitality

- Ensure client traffic is kept separated, even for clients on the same VLAN
- Leverage the Virtual Stack to quickly find ports of interest and create isolated ports (e.g., vlan: 110)
- Secure simplified deployments that use the same VLAN for multiple clients



Energy Consumption Reporting

Ethernet power

Power rate over time (Avg: 266 W, Max: 301 W, Min: 56.3 W)



Top switches by power usage

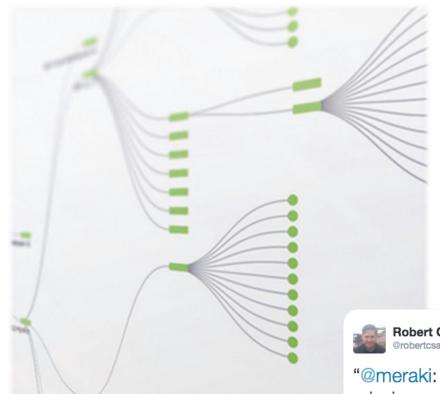
# Name	Model	Power usage ▼
1 MAIN HUB SWITCH	MS42P	12.6 kWh
2 PLT POE 2	MS42P	8.48 kWh
3 PLT POE 3	MS42P	5.55 kWh
4 <u>00:18:0a:75:e1:24</u>	MS42P	4.73 kWh
5 PLT POE 4	MS42P	4.66 kWh
6 <u>00:18:0a:76:12:a2</u>	MS42P	4.08 kWh
7 PLT POE 1 Top	MS42P	3.81 kWh

Visibility into the daily power consumption of all PoE network devices

- Full report of top switches by power usage
- Max, Min and Average of power rate
- Support for tag-based reporting
- ROI by reducing power consumption with power-saving features



Network topology



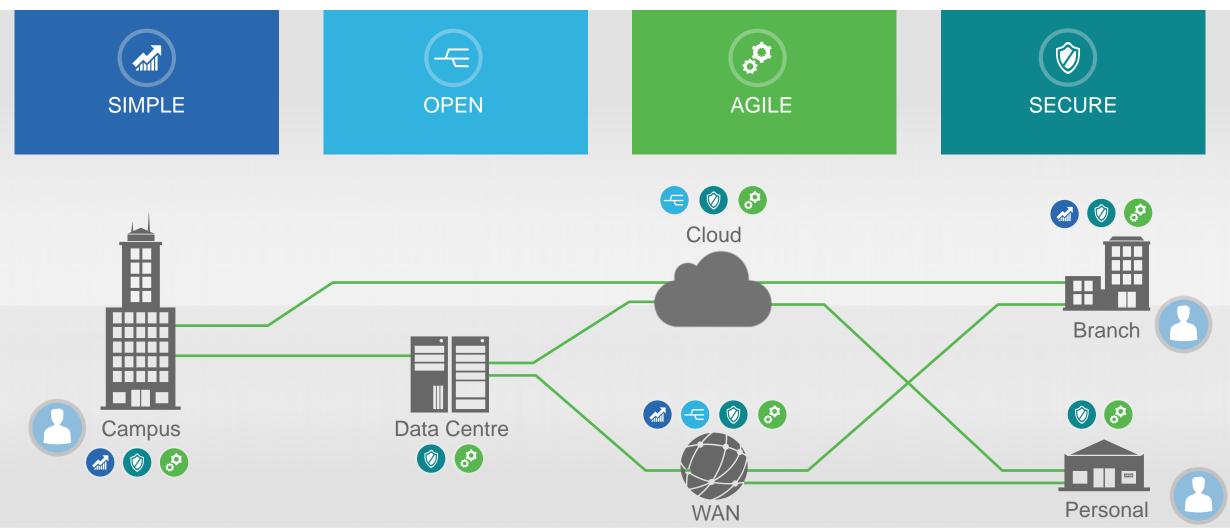
A truly unique view of the network featuring support for:

- Automatic and end-to-end network discovery
- Interactive and dynamic
- Detailed link information and support for redundant links
- Full Meraki stack
- Support for non-Meraki devices
- Options to export to Visio and other file types for further customization





The Network Matters



CISCO

CISCO TOMORROW starts here.