

- CONTROL and VISIBILITY for IT
- DEVICE CHOICE and PREDICTABILITY for Users
- BALANCE between the number of wired ports and wireless radios

Agenda – BYOD / Mobility

Drivers

uluilu cisco

- Assumptions
- Key Functionality
- Portfolio
- Innovations
- Why Cisco



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What is BYOD / Mobility?



BYOD / Mobility Drivers and Assumptions

Drivers

- · Majority of new network devices have no wired port
- · Users will change devices more frequently than in the past
- · Mobile devices have become an extension of our personality
- · Guest access with accountability has become a mandatory busine

Assumptions

- · Guests must be isolated and their activity accounted for
- · Users will have 1 wired and 2 or more wireless devices moving forward
- · The wireless network must be secure and as predictable as the wired network
- There can be no unmanaged devices any more only managed and semi-managed

ess than a year	-429 votes
very year	31.77% 596 votes
very two years	32.04% 601 votes
ore than two years	12.79% 240 votes
1876 votes	

How often do you change your p

BYOD / Mobility



BYOD / Mobility

Key Functionality and Success

Key Functionality

- · Unified wired and wireless network with centralized policy management
- · Sponsored guest and contractor access management that is isolated and accountable
- "AAA" (Authentication, Authorization, and Accounting) to determine "who" accesses your network
- "PP" (Profiling and Provisioning) to simplify onboarding of personal devices and enforce the "what, where, when, and how" users access your network

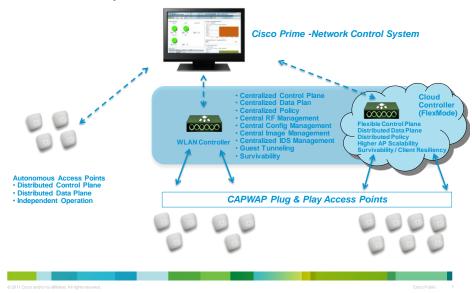
What is success?

- A well designed Mobility / Unified Access Network provides:
- CONTROL (ISE) and VISIBILITY (Prime) for IT
- DEVICE CHOICE and PREDICTABILITY (CleanAir, ClientLink, VideoStream) for Users
- BALANCE between the number of wired ports (1:1 ratio) and wireless radios (25:1 ratio)

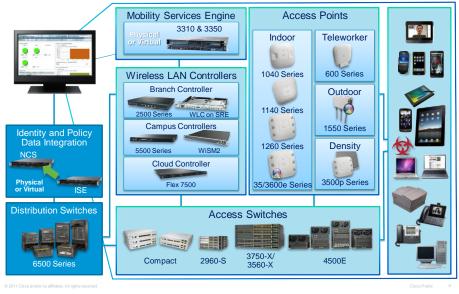
Centrol Visibility Choice Predictability

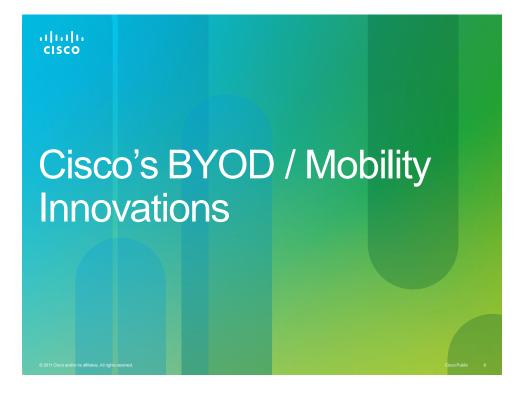
Cisco's BYOD / Mobility Architectures

Choice and Flexibility for IT



Cisco's BYOD / Mobility Portfolio Control and Visibility for IT / Device Choice and Predictability for Users

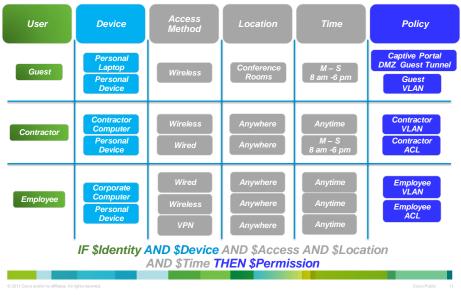




Cisco's Unified Policy Management / Guest Access Industry's first context-based Wired+Wireless+VPN policy/guest management

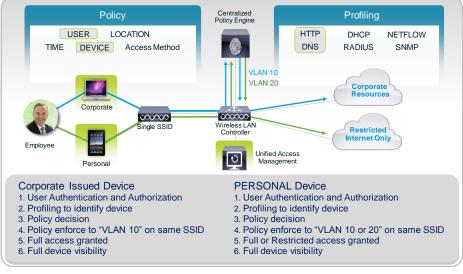




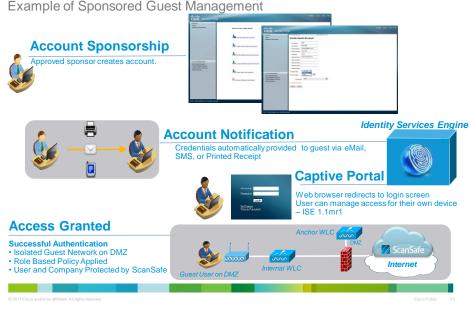


Cisco's Unified Policy Management / Guest Access

Example BYOD / Mobility Implementation

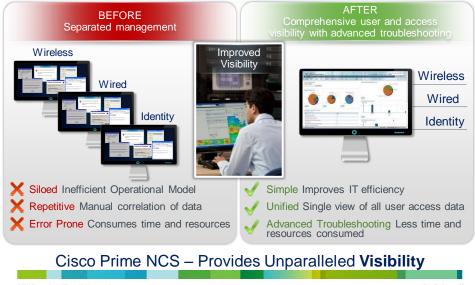


Cisco's Unified Policy Management / Guest Access Example of Sponsored Guest Management



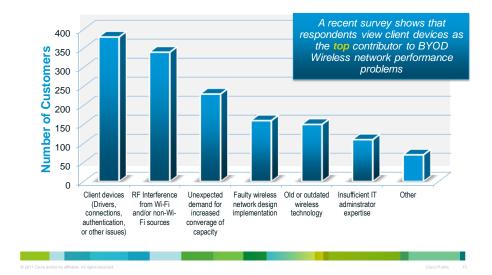
Cisco's Unified Network Management

Single pane of glass view and management of Wired+Wireless+Identity



Cisco's Unified Network Management

Top BYOD Wireless Issues

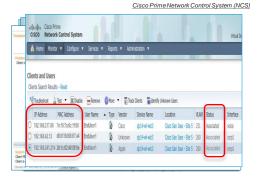


Cisco's Unified Network Management

Troubleshoot BYOD Wireless and Wired devices

<u>USE CASE:</u> User calls in to help center because they cannot get access to financial data on the network. IT determines if they are authorized to access this area.

- 1. Search on user name
- 2. Identify wired and wireless devices associated with the user
- 3. Display associated and disassociated devices
- 4. Use automated client troubleshooting workflow to resolve the issue
- 5. Issue resolved



Cisco Prime NCS = Provides Unparalleled Visibility

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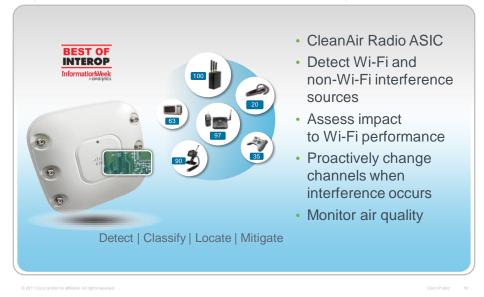
Cisco's Unified Network Management

Unified Network and Policy Management	 Extends visibility beyond the edge to both wired and wireless users Unifies wired, wireless and security visibility into a single view Aligns to how networks and organizations are evolving for efficient operations and faster troubleshooting
Comprehensive Wireless Lifecycle Management	 Comprehensive lifecycle management of 802.11n and 802.11a/b/g enterprise-class indoor and outdoor wireless networks Delivers a wide array of tools and resources for effective planning, deployment, monitoring and troubleshooting, remediation, and optimization
Integration with Cisco Identity Services Engine	 Cisco Prime NCS retrieves information directly from clients: Wired, wireless and authenticated, unauthenticated Enables client posture status and client profiled views Directly links from Cisco Prime NCS to ISE
Highly Scalable	 Monitor thousands of switches and Manage hundreds of Cisco wireless LAN controllers and thousand of Aironet access points Seamlessly integrates with Cisco context-aware software, Adaptive Wireless Intrusion Protections System (AWIPS), CleanAir, and the Cisco Integrated Services Router

Cisco's CleanAir Technology Industry's first chip level proactive and automatic interference protection



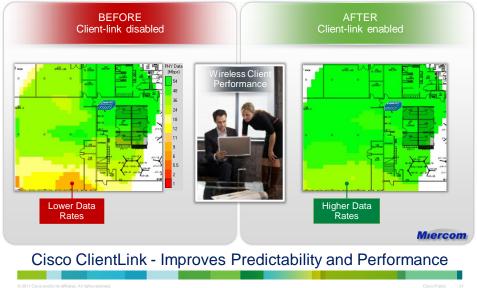
Why is Cisco's CleanAir Technology so Unique? High resolution interference detection, classification, and mitigation at chip level



Cisco's ClientLink / ClientLink 2.0 Technology



Why is Cisco's ClientLink so Unique? Reduces coverage holes / improves client predictability and performance

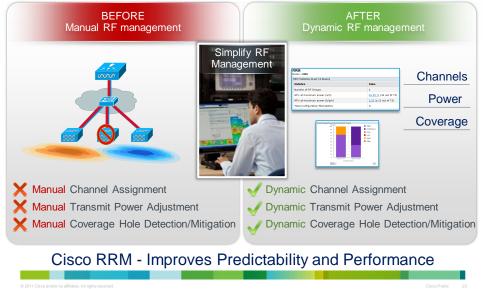


Cisco BandSelect Technology Automatic band steering and selection for 5GHz capable devices

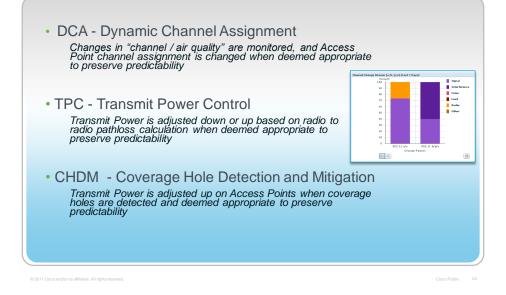


Cisco's Radio Resource Management

Simplify IT operations with automatic / dynamic RF management



Why is Cisco's RRM Technology so Unique? High resolution interference detection, classification, and mitigation at chip level

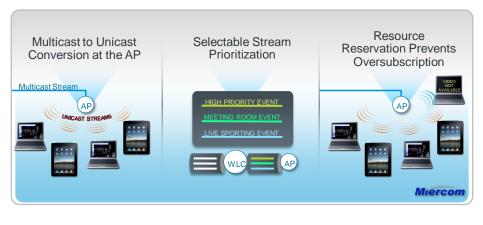


Cisco VideoStream Technology

Wired-like video delivery over wireless



Why Is Cisco's VideoStream so Unique? We optimize end-to-end starting at the Access Point



Tested for 30X Less Bandwidth Consumed and Double the Performance of Competitors

Cisco AnyConnect Technology Industry's first context-based and persistent VPN Connectivity



