FAQs
February 2013

Q: What is BYOD?
A: BYOD is a phenomenon propelled by the mass adoption of mobility devices, such as smartphones and tablets, and it is driving demand for access to private, commercial wireless networks. This surge in access by unsecured devices leads to a multitude of IT security challenges:
- Providing secure access to the network
- Protecting the network from malware
- Scaling the network to meet demand
- Ensuring an optimized Wi-Fi experience

Q: What components of the HP BYOD solution are being announced at the 2013 HP Global Partner Conference?
A: The BYOD components announced by HP at the Global Partner Conference include:
- HP Intelligent Management Center (IMC)
- HP IMC User Access Manager v5.2
- HP 830 Unified Wired-WLAN Switch
- HP 10500/7500 Unified Wired-WLAN Module
- HP 2920 Switch Series
- HP Wi-Fi Clear Connect
- HP Sentinel Security Application

Q: What are the advantages of the HP BYOD solution?
A: The HP BYOD solution solves your BYOD challenges holistically with the following approaches:
- Provides comprehensive user access management that delivers device onboarding, provisioning, and monitoring
- Supports multivendor environment with in-depth policy management
- Meets the growing demand for wireless access with enterprise-scale wireless infrastructure
- Allows for a continuous, optimized wireless experience for users

Q: Who does the HP BYOD solution target?
A: Any organization that is looking for a self-optimizing, comprehensive solution that solves the challenges of a scalable wireless infrastructure and grants access to users securely.

Q: How does the HP solution compare to competitor solutions?
A: Built to be simple, scalable, and secure, the HP solution favorably compares to other vendor solutions.

Q: What are the major considerations when solving BYOD challenges?
A: Here are the key considerations that you should look for while adopting BYOD:
- Consider a solution that optimizes deployment and management of your entire network – wired, wireless, security, and management of users and network
- Security is a paramount consideration
- Consider solutions that go beyond just secure onboarding to provide policy enforcement and monitoring for as long as the device is on the network
- In addition to device management, you should consider the impact to the network and managing the user experience
- BYOD requires a high-density and high-performance wireless network to support several mobile devices

The HP BYOD solution is built upon three tenets – simplicity, scalability, and security.
- Simplify operations – deploy new wireless optimization tools, such as a plug-and-play BYOD user management solution and unified network infrastructure
- Scalable solutions – meet the upsurge in mobile devices accessing the network
- Secure the network – provide access with flexible yet granular policies as well as intrusion prevention through live quarantine

Complete, unified bring-your-own-device (BYOD) solution
Simple, scalable, and secure

Q: What is the HP BYOD solution?
A: HP has taken a holistic approach to solving BYOD challenges by offering a broad solution that goes beyond secure access to the network.

The HP unified BYOD solution is the industry’s only complete solution that delivers BYOD essentials, such as secure device onboarding, provisioning, and monitoring, through a single management application.

The HP solution also delivers unified wired and wireless management and switching platforms, which creates a single network for wired as well as wireless connectivity.

This solution provides a simple, scalable, and secure network that is also ready for software-defined networking (SDN).
Q: What is the impact of BYOD to your network?
A: Most initiatives immediately focus on mobile devices and how to secure those devices. But BYOD initiatives have a far greater impact on the underlying network.
- WLANs have to be redesigned to increase coverage and provide higher density
- Client virtualization needed to deliver applications securely – requires a high-speed, low-latency, and high-bandwidth network
- Unification of the network – wired, wireless, and security – is necessary to simplify the network
- Support for multiple devices for a given user

Q: What is IMC Smart Connect Virtual Appliance?
A: IMC Smart Connect Virtual Appliance is an easy-to-deploy software solution for comprehensive network management that comes in two packages:
- IMC Smart Connect Virtual Appliance – includes IMC Standard Edition and IMC User Access Manager, which provides user access, guest access management, and device fingerprinting and self-registration
- IMC Smart Connect Virtual Appliance w/WLAN Manager – includes single policy enforcement and converged network management across wired and wireless environments. This is in addition to IMC Smart Connect capabilities

IMC Smart Connect is packaged as a virtual appliance, which includes IMC, IMC User Access Manager, SQL database, and Red Hat Linux. It also includes a license for managing 100 network devices and 200 users.

Q: What is IMC User Access Manager v5.2?
A: IMC User Access Manager (UAM) is the user and device management module that integrates into the IMC Standard and IMC Enterprise application.
IMC UAM is part of a broader suite of BYOD-oriented modules available with IMC to provide a comprehensive approach to solving your organization's BYOD challenges. It provides all the capabilities required for onboarding, provisioning, and monitoring.

Q: What are the key advantages of IMC Smart Connect Virtual Appliance over the competition?
A: IMC Smart Connect Virtual Appliance has several advantages:
- More economical, as user licensing is on a per-user basis rather than client endpoint. Each user can be associated with up to five client endpoints. Other products license each endpoint device
- Unified user policies across wired and wireless infrastructure, with multivendor support
- Built on network management platform, enabling administrators to leverage IMC Smart Connect for comprehensive network management
- Unified wired and wireless infrastructure management with IMC Smart Connect w/WLAN Manager

Q: How will you benefit from IMC Smart Connect Virtual Appliance?
A: You can benefit with the following:
- Ease of deployment – IMC Smart Connect is delivered as a virtual machine, which eliminates software installations and enhances application security
- Expansion of capabilities – BYOD solution can be expanded, as IMC Smart Connect provides comprehensive multivendor network management
- Network protection – through integration with HP TippingPoint Intrusion Prevention Solutions

FAQ | Bring your own device (BYOD)
• Advanced device identification gives IT administrators granular control of user policy definition
• Network protection from malware threats through the following mechanisms:
  • The following are sub-bullets
  • Integration with IMC Endpoint Admission Defense for device health checks
  • Integration with HP TippingPoint to provide device monitoring and infected device quarantining
• Unified wireless management through IMC Wireless Services Manager, which delivers user/device location identification

Q: What are the key advantages of the IMC UAM over the competition?
A: The key advantages of IMC UAM are:
• More economical, as user licensing is on a per-user basis rather than client endpoint. The competition licenses each endpoint device
• Unified user policies across wired and wireless infrastructure, with multivendor support
• Integrates with other IMC modules to provide a complete BYOD solution and comprehensive single-pane-of-glass network management solution

Q: How does IMC UAM integrate with the IMC management suite to provide a comprehensive solution?
A: IMC UAM integrates with the following modules to provide a broad range of capabilities, from network access management, to traffic and usage analytics, to wireless infrastructure management. All of these capabilities support the administrator’s goal of single-pane-of-glass management for BYOD.
  • IMC Endpoint Admission Defense (EAD) reduces network exposure by providing postureing capabilities and health checks
  • IMC Network Traffic Analyzer (NTA) provides traffic monitoring and capacity planning
  • IMC User Behavior Auditor (UBA) provides usage monitoring
  • IMC Wireless Services Manager (WSM) provides converged wired and wireless management

HP 830 Unified Wired-WLAN Switch

Q: What is the HP 830 Unified Wired-WLAN Switch Series?
A: The HP 830 Unified Wired-WLAN Switch Series integrates both wireless and GbE switching functions. The switch series provides Gigabit Ethernet ports, PoE+, and works with IEEE 802.11a/b/g/n APs, to deliver a true unified wired/wireless branch office solution.

Q: What are the key features of the HP 830 Unified Wired-WLAN Switch Series?
A: Key features of HP 830 Wired-WLAN switch are:
• 8 or 24 GbE PoE+ ports
• Up to 24 or 60 APs
• Supports MSM460, MSM466, MSM466-R, MSM430, and H3C WA2620 APs
• 802.1X and portal authentication
• Flexible forwarding modes
• Wi-Fi Clear Connect RF optimization and integrated IDS
• Layer 2 and Layer 3 roaming

Q: How will you benefit from the HP 830 Unified Wired-WLAN Switch Series?
A: You can benefit from the following:
• Unified access at small/medium branches of large enterprises networks
• Core-to-edge unified access, branch office client survivability, consistent user security, policy, and QoS when the 10500/7500 unified Wired-WLAN module is deployed in the main campus
• Reduced hardware and operating costs, and improved investment protection with lifetime hardware warranty and firmware upgrades

HP 10500/7500 Unified Wired-WLAN Module

Q: What is the HP 10500/7500 Unified Wired-WLAN Module?
A: The HP 10500/7500 Unified Wired-WLAN Module integrates into HP 10500 and HP 7500 series modular enterprise campus switches to deliver unified wired and wireless access for large enterprise networks.

Q: What are the key features of the HP 10500/7500 Unified Wired-WLAN Module?
A: The key features of the 10500/7500 module are:
• Up to 1024 APs per module (up to 11 modules/chassis)
• Supports MSM430, MSM460, MSM466, MSM466-R, and WA2620 APs
• High availability, and industry-leading scalability and throughput
• IPv4/IPv6 and end-to-end QoS
• Flexible forwarding modes
• Wi-Fi Clear Connect RF optimization and integrated IDS

Q: How does the HP 830 Unified Wired-WLAN Switch Series support the HP BYOD solution?
A: The HP 830 Unified Wired-WLAN Switch Series unifies hardware, eliminating the need for separate wired and wireless access devices, policies, and security.

Q: How will you benefit from the HP 10500/7500 Unified Wired-WLAN Module?
A: The HP 10500/7500 Unified Wired-WLAN Module delivers high availability, high density, and scalable wired and wireless connectivity for large enterprise networks.

The integrated modules unify hardware and provide the necessary high availability and redundancy with a single device to manage. Comprehensive RF management, fast roaming, and robust QoS ensure a high-quality and more reliable end-user experience, even if using the most demanding voice and video applications. Flexible forwarding options allow you to optimize traffic flows, reduce latency, and

Q: What are the key advantages of the HP 10500/7500 module over the competition?
A: The HP 10500/7500 Unified Wired-WLAN Module delivers industry-leading scalability, reliability, and throughput, with support for up to 11,264 APs per switch vs. support for 8000 APs offered by competing solutions.

Q: How does the 10500/7500 Unified Wired-WLAN Module support the HP BYOD solution?
A: The HP 10500/7500 Unified Wired-WLAN Module delivers an integrated solution that easily scales to support your increased client density in large enterprise deployments.

Q: How do these new product announcements complement the existing MSM wireless controllers?
A: The current MSM products will continue to serve mid-sized companies, while the new Unified Wired-Wireless modules will deliver industry-leading WLAN capabilities for large enterprises.

The MSM 430 and MSM 46X access points will work with both controllers and IMC will continue to be the single-pane-of-glass management solution for wired-wireless networks for mid-size and large enterprises.

HP 2920 Switch Series

Q: What is the HP 2920 Switch Series?
A: The new, innovative HP 2920 Switch Series is part of the HP Networking FlexNetwork Architecture for Campus and Branch. This switch series is used in HP FlexCampus for midsize enterprises and in HP FlexBranch, where a managed 10/100/1000 network is required. The HP 2920 delivers flexibility, scalability, and low TCO with a robust feature set.

OpenFlow-enabled delivers SDN-ready infrastructure and investment protection

Stacking delivers pay-as-you-grow economics and operational simplicity

PoE+ delivers 30 watts per port for access points, cameras, and conference phones

Energy Efficient Ethernet (EEE) and HP ASICs reduce power consumption

Q: What are the key features of the HP 2920 Switch Series?
A: The key features of the HP 2920 Switch Series are:

- Modular 40GbE stacking modules for up to four switches
- Removable and upgradeable power supplies
- Modular 10GbE uplinks for either SFP+ or 10G BASE-T
- OpenFlow-enabled (available 1H’13)

Q: How will you benefit from the HP 2920 Switch Series?
A: The HP 2920 Switch Series consists of four fully managed basic Layer 3 access switches, delivering scalable, flexible, reliable, and energy-efficient connectivity. In addition, the HP 2920 Switch Series can be managed through single-pane-of-glass management.

Q: What are the key advantages of the HP 2920 Switch Series over the competition?
A: The main differentiators between the HP 2920 Switch Series and the Cisco Catalyst 2960-S LAN Base Switches are:

- All HP 2920 switches support up to four optional 10GbE SFP+ or 10G Base-T uplinks in a modular format
- All 2920 switches support the option to add a stacking module if you need additional scalability with dedicated stacking throughput

- Static and RIP routing
- Openflow-enabled support
- IEEE 802.3az Energy Efficient Ethernet
- HP lifetime warranty and the HP single-pane-of-glass management with HP IMC

Q: How does the HP 2920 Switch Series support the HP BYOD solution?
A: The HP 2920 switch series provides connectivity, performance, scalability, security, and energy-efficiency.

Both HP wireless LAN and wired switches, such as the HP 2920, can be managed through IMC single-pane-of-glass management software in order to create a seamless wired and wireless environment for BYOD solutions. HP 2920 delivers PoE+, providing a single data and power line for wireless access points.

HP Wi-Fi Clear Connect

Q: What is HP Wi-Fi Clear Connect?
A: HP Wi-Fi Clear Connect automatically optimizes WLAN performance and reliability, mitigates RF interference, and detects wireless threats. HP Wi-Fi Clear Connect simplifies your WLAN management and lowers operating costs, while delivering the Wi-Fi experience that workers expect today.

Q: What are the key features of HP Wi-Fi Clear Connect?
A: The key features of HP Wi-Fi Clear Connect are as follows:

- Advanced radio resource management (RRM) automatically tunes transmit power and RF channel assignments on APs to help avoid dead zones, AP failures, and severe RF interference
- Automatic RF interference mitigation – each AP scans all of its available radio channels to monitor and identify RF interference. If an AP...
HP Sentinel Security Application

Q: What is the HP Sentinel Security Application?

A: HP Sentinel Security is a software-defined network application that enables automated, real-time network security in enterprise and cloud networks. Built on the HP Virtual Application Networks (VAN) SDN controller, the application uses the HP controller and OpenFlow protocol to communicate to the infrastructure layer. Sentinel Security has the ability to turn any OpenFlow-enabled infrastructure device into an enforcement device.

Q: How will you benefit from the HP Sentinel Security Application?

A: The HP Sentinel Security Application will secure your networks with unprecedented capabilities. Sentinel Security operates in a dynamic fashion, programming the network to eliminate threats and protecting users and devices from malicious sites. Through the use of OpenFlow, Sentinel Security turns existing network hardware into security devices, providing investment protection and removing the need for dedicated appliances.

Q: Where do you find additional information on the Virtual Application Networks Controller?

For additional information on the Virtual Application Networks Controller, including a fact sheet and FAQs, go to hp.com/networking/VAN.

Q: How does the HP Sentinel Security application support the HP BYOD solution?

A: With HP Sentinel Security, users’ devices are protected from accessing questionable sites that may pose a threat. Sentinel Security takes advantage of the HP TippingPoint DVLabs cloud database to provide continuous protection against even the most recent threats.

Resources:

Q: Where can I find more information on the HP BYOD solution?

For more information on BYOD, including brochures, whitepapers, and videos, go to hp.com/networking/byod.

detects persistent interference, it will choose the best alternative channel
• Airtime fairness – ensures 802.11a/b/g/n clients get equal RF transmission time, and higher priority traffic is never delayed by lower-priority traffic
• Intelligent client load balancing – determines the client load of each AP, and balances the client load among APs by adjusting the transmit power for beacon and probe response frames
• Integrated Intrusion Detection System (IDS) – the access point uses time-slicing to simultaneously provide client services and act as a security sensor to automatically detect and identify any unauthorized wireless access and threats

Q: How will you benefit from HP Wi-Fi Clear Connect?

A: Wi-Fi Clear Connect simplifies deployment, providing you with a better performing Wi-Fi network and a more consistent and reliable end-user experience at a lower cost.

Q: What are the key advantages of HP Wi-Fi Clear Connect over the competition?

A: HP Wi-Fi Clear Connect is a software-based solution, requiring a simple firmware upgrade without the need for expensive AP hardware upgrades or additional licensing for features such as interference mitigation or integrated IDS.

HP Wi-Fi Clear Connect is supported on MSM430, MSM 46X, and MSM 410 APs. Interference mitigation is not supported on the MSM410.

Q: How does HP Wi-Fi Clear Connect support the HP BYOD solution?

A: HP Wi-Fi Clear Connect optimizes WLAN coverage and performance and ensures a more reliable end-user experience in dense client environments and when deploying BYOD initiatives.