Surviving the iPad Crush

Meraki, Inc





Agenda

- » Meraki overview
- » iPad growth in the enterprise
- » iPad security and access
- » Network considerations
- » Enabling a superior network experience

Meraki builds cloud-based networks that are easy to manage.

Complete Wireless LAN Product Line



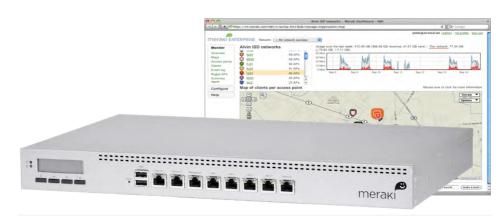


Access points for any environment

+ Cloud-hosted controllers



Cloud-Managed Routers



Branch router with integrated application firewall, site to site VPN, traffic shaper



17,000 sites and 35 Million Clients Connected























iPad:

Growth in Enterprise Networks



iPad Exploding Onto Enterprise Networks

Apple COO Tim Cook:

» 80% of the Fortune 100 are deploying or testing the iPad.

Forrester Research Report:

- » Approximately 26% of enterprises with 1,000 employees or more are using or planning to use tablets for business use.
- » 80% are supporting multiple smartphones and laptop models.
- » In general, companies plan to support more configurations in 2012.

iPad Exploding Onto Enterprise Networks





iPad Exploding Onto Enterprise Networks







iPad:

Security and Access



Apple integrates security measures into the iPad

- » Device security
- » Data security
- » Network security
- » Application security

Prudent network administration considers all of the above when allowing new client device types on the network

Device security includes fine-grained password policies

- » Enforcement of passcode requirement on device
- » Minimum length and complex characters
- » Passcode aging
- » Maximum failed attempts

Choose the right mix of password policies to ensure a high level of access security.



Highly robust data security

- » Always-on 256-bit AES hardware encryption
- » Backup data on user computer can also be encrypted
- » Highly sensitive data, such as email and attachments, are further encrypted using a key based on the user passcode
- » Remote and local wipe methods are supported

Ensuring passcode strength increases data protection.



Network security support is built-in

- » VPN supported through IPsec, SSL/TSL VPN
- » Safari, Mail, Calendar, and applications use SSL

Flexible access and authentication security

- » Supports digital certificates and token methods
- » Access via 128-bit AES WPA2 and many 802.1X protocols

Built-in security supports a wide variety of configurations and methods, making integration smooth.

Application security is baked into iOS

- » Applications are isolated and shielded from system components
- » Encrypted keychain stores identities, usernames, and passwords
- » Custom applications are enabled through a provisioning profile

iOS platform ensures safe handling and encryption of application and user data.





iPad:

Network Considerations



Your wireless infrastructure must be ready

- » 802.11n for high-density deployment
- » Adequate coverage of areas likely to see the iPad
- » Automatic management of clients and access point radio settings:
 - assigning clients to the right 2.4 GHz or 5 GHz channel
 - power of access point and client power saving
 - channel selection
 - client roaming
 - and mesh routing

The iPad has no wired access – there is no other way!



Network traffic types must be considered

- » Can't degrade experience for existing, non-iPad clients
- » Critical traffic should be prioritized, such as VoIP, meeting applications, or video conferencing
- » On the other hand...



Consider iPad use cases

- » Email and calendar
 - Microsoft and open standards supported





Consider iPad use cases

- » Business applications
 - Document reading and editing
 - Meeting and webcasts
 - Business-specific apps



Consider iPad use cases

» VoIP







» Recreational video





» Video conferencing





Two cameras.
One for them. One for you.



iPad:

Enabling the proper network experience



Enterprise 802.11n Access Points



Meraki MR12	Meraki MR16	Meraki MR58
Single-Radio 802.11ab/g/n	Dual-Radio 802.11a/b/g/n	3-Radio 802.11a/b/g/n
300 Mbit/s	600 Mbit/s	900 Mbit/s
Most economical	Most popular	Rugged, outdoor

All enterprise access points feature:

802.11n, 2x2 MIMO, Beamforming, 802.3af PoE NAC, Teleworker VPN, AutoRF, Client Fingerprinting Hardware accelerated encryption Self-configuration, self-optimization, mesh networking Seamless management with the Enterprise Cloud Controller



Meraki MR24 Cloud-Managed Access Point



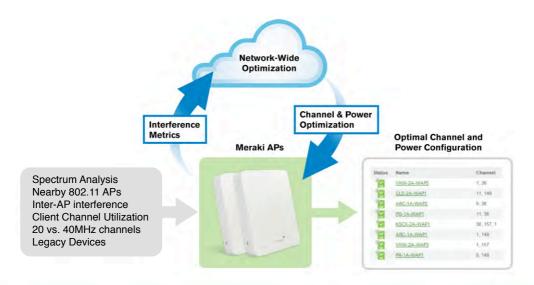
Built for highest-performance and density

- » Triple stream 3x3 MIMO
- » Dual concurrent radios
- » 900 Mbit/s
- » Up to 50% more clients

More than just an access point:

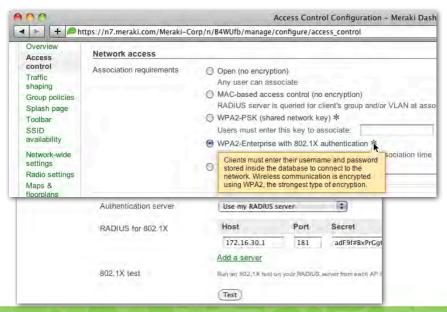
- » Cloud management
- » Application (L7) traffic shaping
- » Multi-radio mesh routing
- » Spectrum analysis and RF planning
- » Priority voice and video
- » Layer 2/3 VPN

Auto RF: Cloud-based Optimization



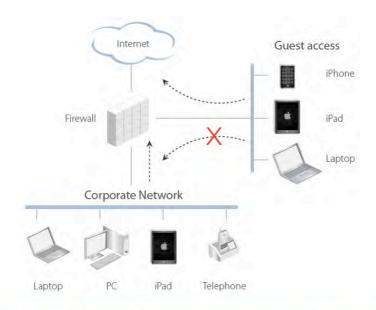


Integrated Enterprise Security





Secure Guest Access

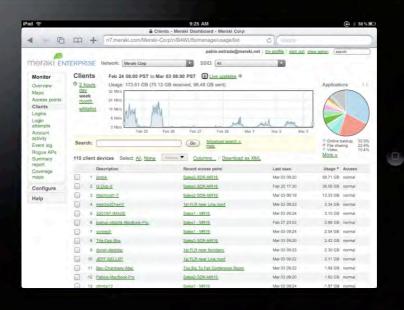


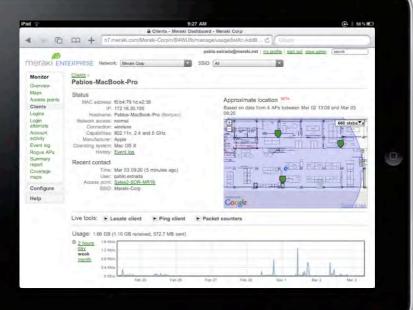
Secure Guest Access





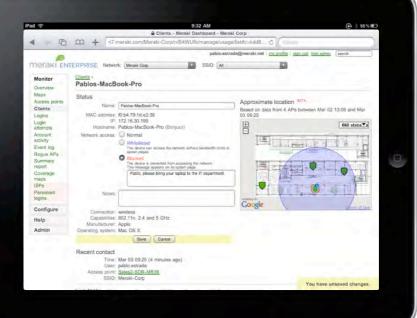




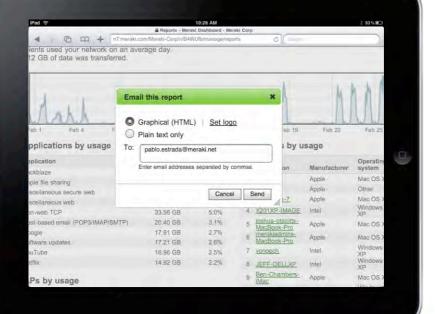




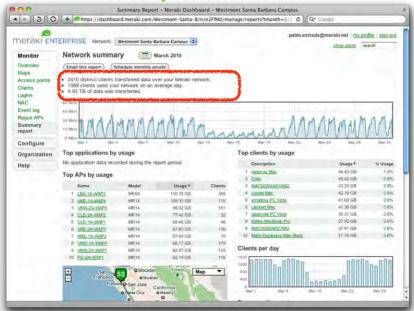




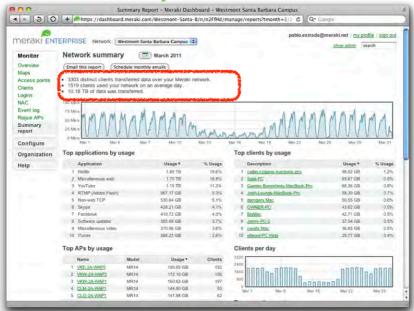




iPad: Are You Ready?



iPad: Are You Ready?





iPad: Five Recommended Best Practices

- 1. Ensure device security with integrated methods provided by Apple
- 2. Use standards-based authentication such as 802.1X if providing access to the corporate LAN
- 3. Block LAN access if providing internet-only guest access
- 4. Use automatic RF optimization to ensure performance and reduce management overhead
- 5. Monitor and shape application usage with integrated user/device fingerprinting and application traffic shaping

iPad: Are You Ready?

- » iPads and tablets are here and they're coming to the enterprise.
- » Network administrators needs to protect critical assets while providing the right network experience for all end users.
- » Meraki's cloud-based networks provide the infrastructure needed to:
 - Make integration of iPads and tablets painless
 - Allow your network to survive the crush of iPads
 - Deliver the proper network experience for all your users.

iPad

Enabling the proper network experience



http://meraki.com/ipad

