Is the LAN Dead?
Aruba MOVE™
Access Network Architecture for the Mobile Virtual Enterprise
Aruba Networks – Fastest Growing Enterprise WLAN Vendor

Source: Dell’Oro Group
### Gartner Magic Quadrant
#### WLAN Infrastructure

**2010**
- **Aruba** – Up and to the right
- **Cisco** – Possibly slightly up but to the left
- **Juniper** – Big drop down and left. Welcome.
- **HP Procurve** – Down
- **Motorola** – Left and slightly down
- **Meru** – No movement
- **Ruckus** – Up and to the right

**2011**
Announcement: March 15th 2011

- Aruba MOVE™
  Mobility-Centric Access Network Architecture

- Bring Your Own Device (BYOD)
  Solution

- Eight New Products
Enterprise Mobility: A Perfect Storm

Mobile Devices
- Fortune 100
  - >80% deploying iPad & iPhone
- Smartphones
  - 289M in 2010 ➔ 1B in 2013*
- Tablets
  - 54.8M in 2011 ➔ 300M in 2013*

10x growth by 2013!

Multimedia
- Custom enterprise multimedia apps
- > 50% of employees adopting video

Collaboration
- Social Business: Jive, Chatter, Yammer
- Connections: Lync, Telepresence, Facetime

Virtual Desktops
- Virtual Desktops: 45M installations by 2013
- Citrix XenDesktop, VMware View

(*) Source: Gartner
Exponential Pressure on IT Departments

End Users

- Can I use my iPad? No!
- Can I work from home? No!
- Can I video conference? No!
- Can I connect outdoors? No!

IT Managers
Trapped Budgets in Existing Networks
Not Suited For Mobility

“Failure to put a comprehensive mobility strategy in place typically leads to higher cost, lower security, silo-ed solutions, and unnecessary duplication of services.”

— Gartner, July 2010
Introducing Aruba MOVE™: Access Network Architecture for Mobility

Mobility Services

Thin Access On-Ramps

- Centralized Control
- Thin Access

- Rapid Service Delivery
  - Zero touch deployments for BYOD, Voice, Video

- Context-based Policies
  - User, Device, Location and Application Aware
New Products
New Mobility Services

Amigopod Access Management
Industry’s only self-registration portal for smartphones and tablets

ArubaOS 6.1 for Mobility Controllers
Apple Facetime QoS
Spectrum Enhancements
Multicast Enhancements

Authorization
Security
ArubaOS 6.1 for Mobility Controllers
Device fingerprinting
IPv6 certified firewall
Suite B encryption

RF
AirWave 7.3 Network Management
Wireless & Wired
Device Visibility
Context Aware

Management
Aruba Amigopod Access Management

✓ Self Registration
  • Guest account delivery with SMS
  • Certificate installation on Apple iPads, iPhones, and iPod Touches

✓ Easily Customize Branding
  • Optimized view for mobile devices
  • Multimedia and ad content

✓ Vendor, Technology Agnostic
  • Supports all major vendors
  • Wireless/Wired; Indoor/Outdoor

• Installation Options
  – virtual appliance
  – hardware appliance

• 10K concurrent user sessions
AP-134/135 802.11n Access Points

✓ Unprecedented Capacity
  • Supports 50% more client devices

✓ Best RF Coverage
  • Integrated spectrum analysis
  • Industry-best 802.11n implementation
    – Transmit Beam Forming (TxBF)
    – Space-Time Block Coding (STBC)
    – Low-Density Parity Check (LDPC)

✓ Most Secure
  • 802.1ae MACSec ready
  • Integrated TPM security
  • Integrated advanced wireless IPS

• Dual 3x3:3 radios
• 802.3af PoE
• Optional external antennas
AP-175 Series 802.11n Access Points

✓ Ruggedized design
  • Campus WLAN extension to outdoors
  • Storage yards, warehouses, industrial production and transportation facilities
  • Full protection against airborne contaminants, moisture, precipitation

✓ Fully Featured
  • Enterprise mesh for wireless backhaul
  • Always-on spectrum analysis
  • Integrated firewall and wireless IPS
  • Adaptive Radio Management

• Dual 2x2:2 radios
• 300Mbps data rate per radio
• Power Options
  - 802.3at PoE, AC or DC
Aruba S3500
Industry’s First Mobility Access Switch

✓ **Wired Security**
  - 802.1x authentication on all ports
  - 802.1ae MACSec ready
  - Stateful firewall enforcement

✓ **Wireless to Wired Mobility**
  - Role based access per device, user

✓ **Zero Touch Install**
  - All configuration and firmware comes from the controller
  - Can be deployed as overlay to existing network

✓ **High Performance**
  - Wire rate, non-blocking
  - 4 x 10GbE uplinks

- 24 or 48 GbE ports
- Optional PoE+
- ArubaStack (up to 8)
- Lifetime warranty
Aruba S3500
Wired AP & Controller Modes

- **Wired Access Point**
  - Tunnel traffic to controller
  - Policy enforcement at controller

- **Integrated Controller**
  - Wired AP for 8 APs
  - Terminate tunnels from Wireless APs

- **Ethernet Switch**
  - Layer 2 forwarding
  - Rule-based policy enforcement

*Roadmap*
For the First Time: A Truly Integrated Wireless & Wired Access Network

- Wired AP builds tunnel to controller

- Uniform security policy across wired and wireless

- Visibility and control over ALL users, independent of medium

- Simplified network designs
  - no VLANs, no ACLs at access switch
VIA for Mac OS X

✅ **Zero Touch**
- Downloaded and installed by the user
- Automatic connections when remote

✅ **Seamless Mobility**
- Firewall policies tied to user role
- Same policy as in campus, branch

✅ **Best in Class Security**
- Suite B encryption for 802.11i, VPN
- IPSec VPN with SSL fallback
- Integrates with Aruba Content Security Service

VIA is also available for Win7 32- & 64-bit
Mobility Controllers

Supported Access Points

- 1000s
- 100s

Firewall Performance

- CAMPUS
- 6000 Series
- 3000 Series
- 650/651
- S3500
- Instant
- 620
- 3000 Series
- 100s
- SMALL OFFICE
- BRANCH OFFICE
- 100s

NEW!
Virtual Controller Technology
- Adaptive Radio Management
- Stateful firewall & rogue AP protection
- Stateful QoS for voice & video

3-minute WLAN Install
- Over the air provisioning
- Single screen user interface

Cloud-based Management
- Network operations by AirWave

Software Upgradable to Join Controller-based WLAN

- IAP-105: Dual radio, integrated antennas
- IAP-92/93: Single radio external/integrated antennas
- 16 IAPs per group
Eight New Products Released with Aruba MOVE

**Mobility Network Services**

- **ArubaOS 6.1**
  - Introduces context aware networking for smartphones and tablets

- **Aruba Amigopod**
  - Industry’s only self-registration portal for smartphones and tablets

- **Aruba AirWave**
  - Industry’s only platform with a single view of the entire access network

- **Aruba VIA for MacOS X**
  - Industry’s easiest to use VPN software with per user firewall

**Thin Access On-Ramps**

- **Aruba S3500 Series**
  - Industry’s only mobility access switch, truly unifying wireless and wired

- **Aruba AP-134/135**
  - Industry’s only Gigabit AP with firewall and spectrum analysis

- **Aruba Instant**
  - Industry’s first Enterprise-grade Wi-Fi that can be setup in under 3 minutes

- **Aruba AP-175 Series**
  - Aruba’s industry-leading 802.11n technology – now available outdoors
Bring Your iPad to Work with Aruba MOVE™

- Zero IT touch, context aware access
- Auto-identification of user, device, application
- Monitoring, reporting per user and per device

802.11n AP

Device Fingerprinting

Amigopod

iPad Self Registration

Device Visibility

AirWave
Next Steps
Register Your Customers for the Live Launch Webcast – March 15th 2011

• http://www.arubanetworks.com/move

3 Lucky Winners
1. 1/2 day Gartner consulting (USD $18,000 value)

2. Networking gear (up to USD $5,000 value)

3. Mobility assessment service (USD $5,000 value)
Mobility Readiness Assessment

- Identifies issues and opportunities to enable mobility
- Deliverables: MOVE Architecture blueprint and ROI
- One day service, $5K price
- Delivered by Aruba trained partners

Discovery Questionnaire
- Wi-Fi Environment
- Wired Environment
- Security / Compliance
- Remote Access

Network Test
- Application Performance
- RF Health
- Security Posture

Analysis & Reporting Tool
- Summary of Findings & Recommendations
BAD MOVE – GOOD MOVE
6 Funny Spots

- Meow
- Anything Else?
- Hold on, Let me Check
- Emailllllllllll
- Time Machine
- Second Life

Search for “arubanetworks” on YouTube
Thank You