UBIQUITI WORLD CONFERENCE

CHICAGO, MARCH 23, 2012

Revolutionary New
Radio Platform Unveiling

UBIQUITIACADEMY Officially Launched

UBIQUITIACADEMY

- Hands-on, lab focused learning
- Trainers world-wide
- Courses for all Ubiquiti platforms

Ubiquiti airMax Certified Admin Topics:

- RF Fundamentals
- Antennas
- Link Planning
- Installation Best Practices
- Spectrum Analysis
- Ubiquiti Protocols

More Info: www.ubnt.com/training

UBIQUITI ACADEMY Upcoming Locations

3/26 - Buenos Aires, Argentina

3/29 - São Paulo, Brazil

TBA - Prague, Czech Republic

TBA - Barcelona, Spain

TBA - Beijing, China

TBA - Bangkok, Thailand

TBA - Dubai, U.A.E.

More Info: www.ubnt.com/training

airOS RoadMap

5.5 (Now)

New:

-AirSync Incorporated
-Multiple VLAN Support
-RADIUS MAC Authentication
-AirMax support for all legacy devices
-Custom Channel Bandwidths (2,3,5,8,10,20,30,40MHz)
-Large MTU capabilities on all M-Series products (2024 bytes)
-DHCP Relay
-UPnP Support
-Dynamic ACL Management
-Updated Kernel Version

5.6+ (Future)

Planned:

-Official UBNT SNMP MIB
-Full IPv6 support
-Remote AirView & Recording capabilities

Possibilities:

-Multiple SSID support
-DHCP Address Reservation

Requests Welcome!


Ubiquiti AirMax WorldConference 2012
Matt has been promising 5.4 to 5.7 for too long!

airMAX Lower 5GHz Approval

Approved Today!

5255 - 5340 MHz

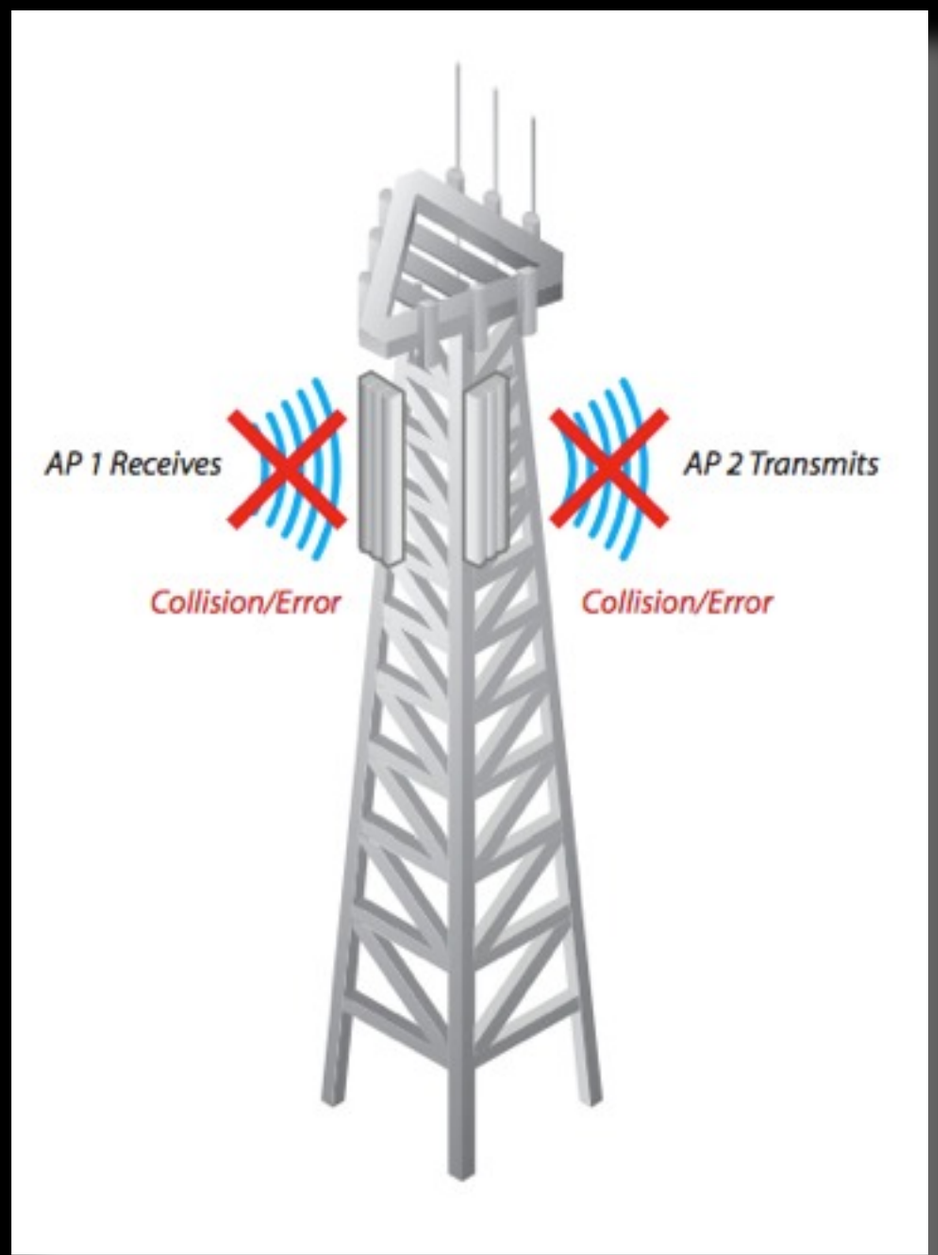
5475 - 5715 MHz

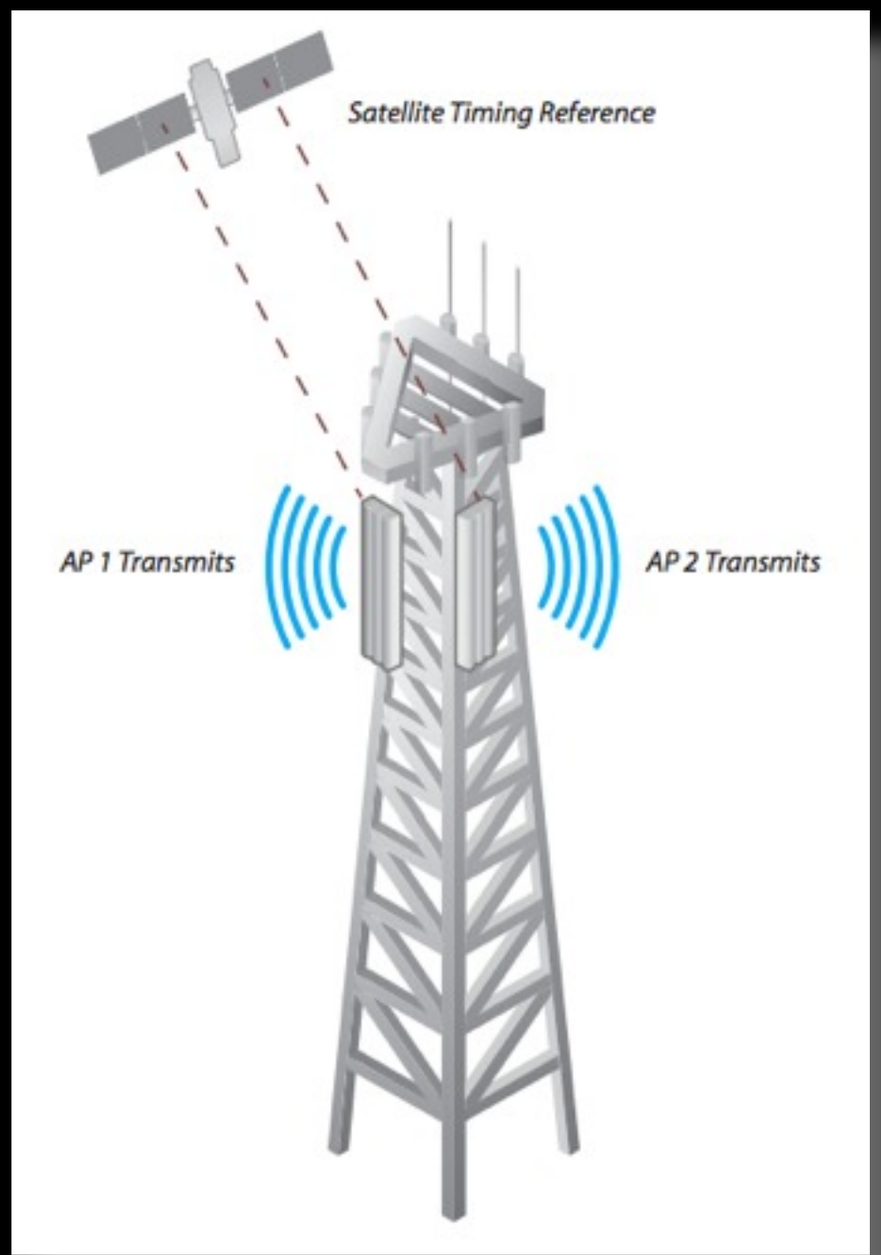
5725 - 5850 MHz

Available in upcoming airOS v5.5.1

airSync Expectations

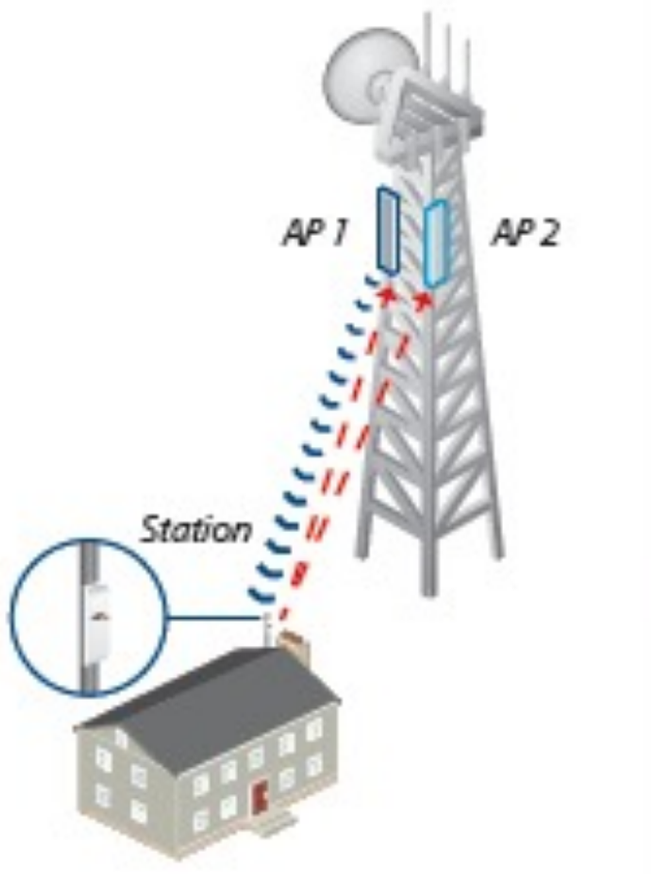
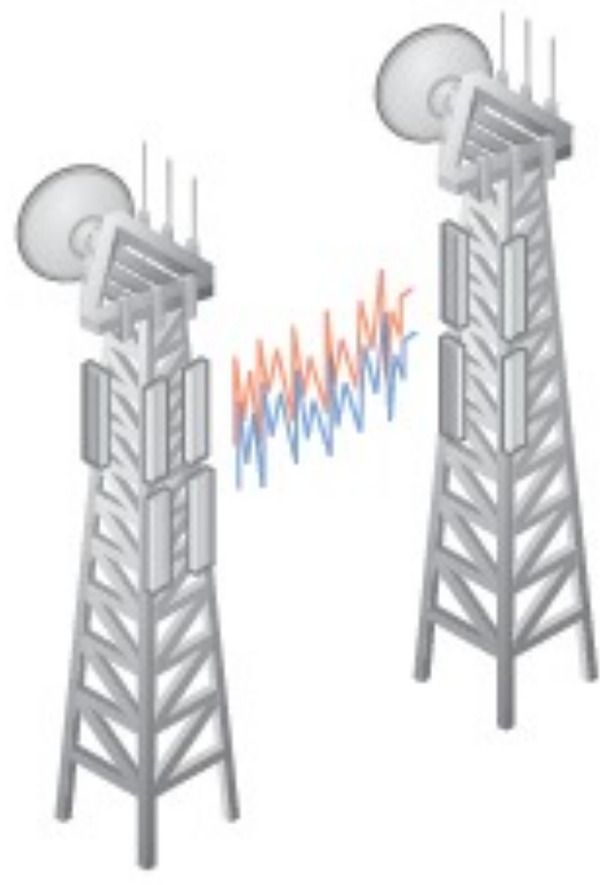
What problem does airSync solve?





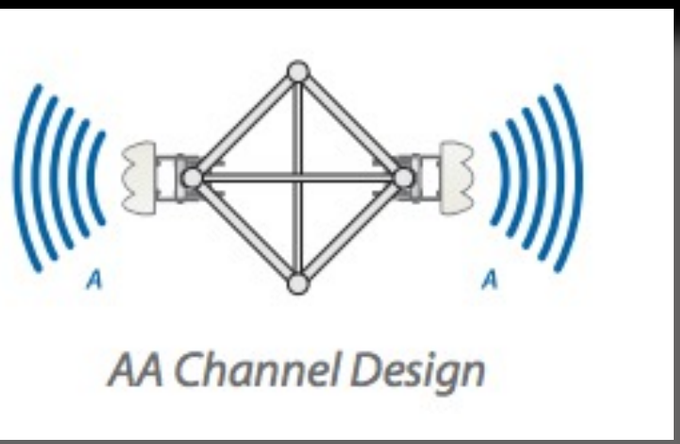
airSync Expectations

What problem does it **not** solve?

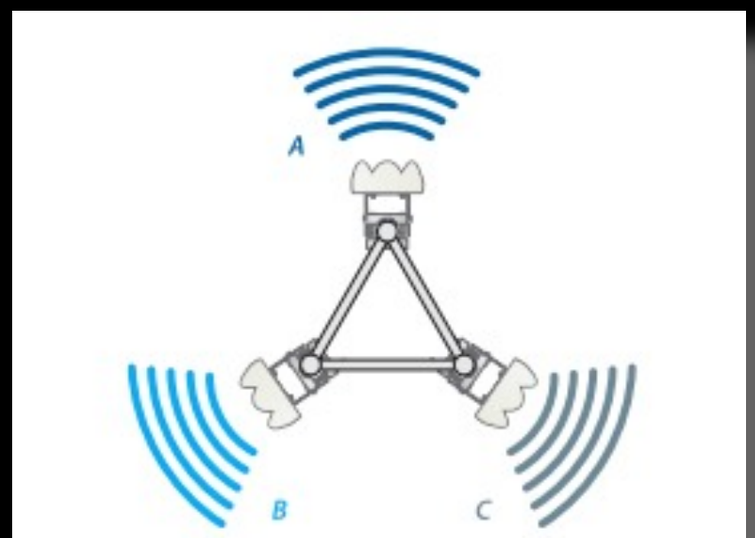
Station sees AP other than its own with similar signal strength	AP sees Station from another AP	Excessive in-band noise from sources outside the network
		

airSync Expectations

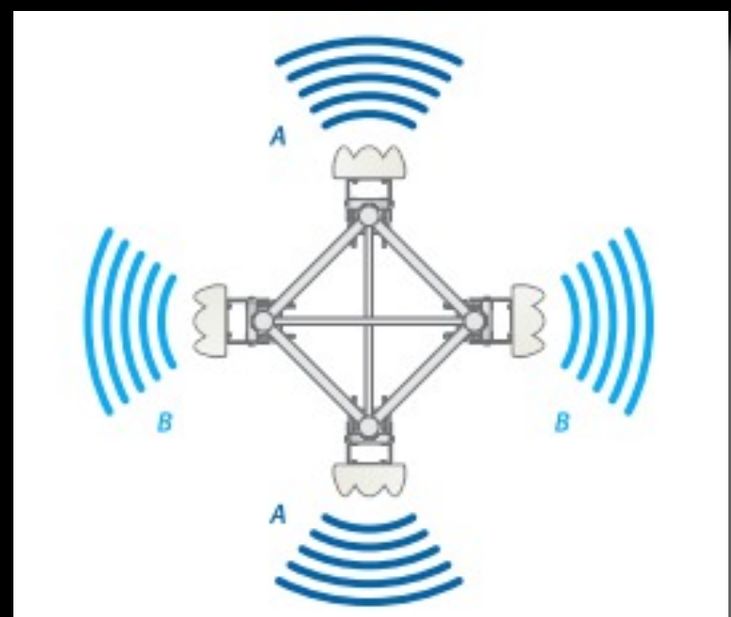
Channel Planning



AA Channel Design



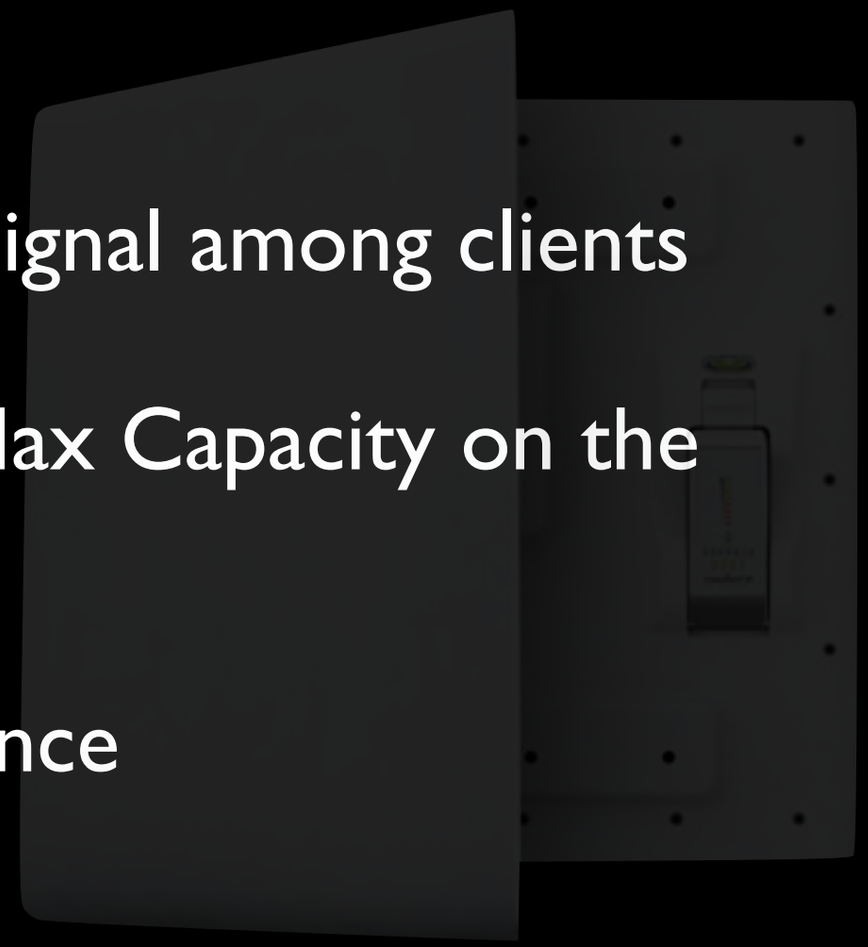
ABC Channel Design



ABAB Channel Design

airBeam Field Results

Signal / Noise, dBm	Beam
-58 / -92	
-62 / -92	
-63 / -92	
-64 / -92	
-51 / -92	
-65 / -92	
-54 / -92	
-65 / -92	
-55 / -92	
-51 / -92	
-75 / -92	
-77 / -92	
-64 / -92	



- 6-8dB improvement in signal among clients
- 15-20% increase in AirMax Capacity on the Access Point
- Better overall performance

Standard Rocket

AirMax:	Enabled
AirMax Quality:	74 %
AirMax Capacity:	66 %

AirBeam Rocket

AirMax:	Enabled
AirMax Quality:	75 %
AirMax Capacity:	85 %

airBeam In Action

TOUGHSwitch PoE

TOUGHSwitchPOE

STATUS | DEVICE | PORTS | VLANS | ALERTS

Tools: Logout

Total Throughput 57.6 tx kbps | 8.27 rx kbps

TOUGHSwitch PoE

Highlights:

- 5/8 Port Gigabit Managed PoE Capable Switch

- VLANs, Port Bonding, STP/RSTP, Alerts, Rate Limiting / Traffic Shaping

-24V or 48V PoE Output (Software Controllable)

- Two Versions:
  - 5 Port | DC Input
  - 8 Port | AC Input

rocket TITANIUM

-More powerful processor provides 10%+ PtP AirMax performance improvement and 20%+ PtMP AirMax performance improvement

-Gigabit Ethernet

-802.3af 48V Power Over Ethernet

-Greatly improved Shielding (all metal enclosure) for co-location deployments

-Improved GPS receiver (M5 version)

Titanium Series

rocket TITANIUM

BULLET TITANIUM

AMS-XG-Ti

Variable Beamwidth airMax Titanium Sector

AMS-XG-Ti

-Greatly improved RF isolation for co-located sector deployments

-Variable 60 to 120 degree beamwidth

-Integrated weatherproof shroud design

airMAX Mechanical Updates