Building the Campus for the Experience Edge

The Interaction of People, Places, and Things

- Uninterrupted experience
- Optimized Gigabit connectivity for user, device, and environment
- Automated and simplified IT operations
Can You Afford Not to Deliver Stable Wi-Fi?

dear barry university,
your wifi simply sucks. Sincerely, a frustrated college student trying to study

I'm glad I denied a University IT job offer - these guys can’t even get wifi working right on most of the campus.

INSTITUTIONAL
Student Success
Attracting and Retaining Students
Perception of degree low ROI
Student security and safety
4-year Graduation Rate

IT AND APPLICATIONS
Network and Data Security
Data Analytics for Student Success
Accelerating Services
Adaptability, Scalability, Customization
Disparate IT Groups

Higher Education Challenges
Student Success Requires an Informed, Reliable and Smart Network

#GenMobile Undergraduate Student Statistics

- **85%** want a tech savvy university
- **25%** want data-driven personalization for academic success
- **81%** connect two+ devices simultaneously

BYOD

Connectedness

Capacity
The Higher Education Solution

Unmatched network assurance

Easy automation, control, integration

Faster detection, diagnosis, and resolution

Immediate visibility into what’s happening

Infrastructure
- Campus AP
- Remote AP
- Beacons
- Access
- Core / Agg
- Controllers

Management
- AirWave
- NetInsight
- Mobility Master

Security
- ClearPass
- IntroSpect

Applications
- Meridian
- Partnerships

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Aruba Connection to **Always On Connectivity**

Students say connectivity issues are the **#1 impact** on academic success\(^1\)

- **Uninterrupted high bandwidth connectivity while roaming or in dense environments**
- **Built in intelligence to prioritize learning apps**

Know about issues before students
Optimize poor performing buildings
Use network data to support campus initiatives

- **Empower students with self-serve features**
- **Proactive discovery of RF/non-RF issues**
- **Personalize student experience and enable smart classrooms**

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Architected for Capacity and Uptime

<table>
<thead>
<tr>
<th>Device use and proliferation</th>
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<tr>
<td>12M authentications per day</td>
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<td>Network demands as wearables and IoT increase</td>
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<th>Proven scalability</th>
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<tr>
<td>100K+ unique clients per day</td>
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<tr>
<td>40TB data transferred per day</td>
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ClearPass AppRF™
#1 Higher Education IT Issue for 2018 is Information Security

User-level awareness of all traffic (Device types and app flows)

Differentiated access for student, staff, guests, and IoT

Automatically segment traffic to the correct location (Academic – Facilities – Public)

Machine learned analytics to respond to risk
Deployment Flexibility for All Locations

Satellite Campus
Satellite Campus Wi-Fi with built-in controller

Main Campus
Controller-based centralized encryption with advanced services at scale

Remote Staff
Virtual Intranet Agent and Remote APs

Students roam with consistent user experience
Right-size infrastructure for environment and budget
Reduce IT workload with simple and consistent management tools
Pulling it all together

Mobile First Architecture

Faster detection, diagnosis, and resolution

Policy Management

User and Entity Behavioral Analytics

Cloud Networking

Easy automation, control, integration

Immediate visibility into what's happening

Unmatched network assurance

Network Management

Network Optimization

Access

Network Controls

Core

Aruba 8400

Location Analytics

Location-Based Services

API

API

API

API

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Aruba Mobile First Ecosystem
Best in Class Community

Aruba Ecosystem

IT SERVICES

- Deloitte
- MobileIron
- Intel Security
- Accenture
- Infoblox
- Juniper Networks
- Check Point Software Technologies
- Citrix
- Splunk

GTM Partners

- Skype for Business
- kasada
- Robin
- Eventbase
- edu.com

BUSINESS AND USER FACING APPLICATIONS

Alliances

Airheads and Developers

Partnering Across IT, Security, Apps, Business Solutions, and Services
Improve Wi-Fi Security, Coverage and Performance

**Aruba Solutions:** Aruba 801.11ac APs, 7200 Series Mobility Controllers, 5400R Switch Series, ClearPass Policy Management, and AirWave Network Management

- Improved Wi-Fi security and coverage
- 50% Wi-Fi performance increase
- Poor coverage library complaints reduced from dozens per month to zero
- Enables future technologies leveraging built in Bluetooth beacons
- Streamlined operations via HPE core, edge, and Wi-Fi solutions
Superior Performance

**Aruba .11ac Wi-Fi, ClientMatch:** Complete campus-wide .11ac infrastructure maximizing devices/AP matching

**AirWave:** End-to-end management (23 buildings + outdoor)

One of the top 20 comprehensive universities in the U.S.

“With the Aruba 802.11ac infrastructure, we can see a direct link between the performance and ability to support teaching and learning.”

Peter Quan, Vice President and Chief Technology Officer
Innovative Classroom Instruction

**Aruba .11ac Wi-Fi, AppRF:** Real-time proctored testing

**ClearPass:** Advance policy services for tablet app based learning

“A robust Wi-Fi network enables classroom innovations (app-based learning, shared communications, on-the-fly presentations, quizzing and testing) for improving student learning.”

Bret Wood, Professor