



Aruba Emergency Management Solution

Planning and executing an inclusive Campus Safety and Emergency Management strategy is now more important than ever for academic institutions as they are faced with greater exposure to threats. Even the federal government has stepped in, stipulating how emergency response and evacuation policies should be shared between agencies and how these policies are to be executed in the event of an emergency.

But many organizations are still unclear what best practices should be followed for adopting and integrating emergency management technology. When building the network foundation for this technology, wireless is emerging as the most compelling infrastructure to support the many emergency applications that are likely to be implemented, but there are challenges that have hindered wireless networks.

- **Network Capacity** – Emergency situations result in increased load on the network as users congregate in evacuation areas, and collection data such as video feeds increase bandwidth usage.
- **Reliability and SLAs** – Mission-critical applications are life-critical during an emergency. A system must ensure quality of service to applications like voice service for emergency workers or notification messages to voice broadcast systems
- **Flexibility** – The campus emergency network must be available everywhere across campus, so that mobile command centers can be activated on the fly and receive every service required, from video and sensor data feeds to the campus VoIP network.
- **Granular Network Segmentation** – Context of location and user identity are critical, whether delivering notification messages, allocating priority of network resources, or accessing surveillance video and sensor data.

How Aruba Enables Emergency Management

Only Aruba provides a robust 802.11n wireless LAN with an integrated stateful firewall for user, device, location and application awareness, ensuring that notification messages are properly distributed and that emergency communications are prioritized.

Combined with the highest performance mobility controller in the industry, Aruba becomes a clear choice for creating a reliable mobile network to support emergency applications along with user traffic.

Benefits:

- **Cost-Effective:** One platform for high-performance 802.11n wireless LAN, network security and remote access eliminates the need to acquire, install and manage multiple disparate systems
- **Over-The-Air Reliability:** Patented Adaptive Radio Management (ARM) 2.0 ensures consistent performance for multiple mission-critical applications sharing a common wireless LAN
- **Scalable:** 80Gbps mobility controllers enable high performance wired and wireless access during peak usage that can exist during emergencies.
- **Easy to Manage:** Single point of control for networks in main offices, branch offices and home offices reduces time and resources required to configure, monitor and troubleshoot.
- **Secure Mesh:** Specialized outdoor access point hardware and wireless mesh software reduce the costs of installation for video surveillance cameras and environmental sensors

Emergency Management

APPLICATIONS

Some of the emergency applications that Aruba enables include the following:

Mitigation and Preparedness

Providing timely information to campus police and local law enforcement through video surveillance and environmental monitoring are the basis for identifying threats, but it is often cost prohibitive to deploy these devices in areas where existing cabling is not available. The Aruba secure enterprise mesh solution can offer a 20:1 cost advantage compared to trenching or boring new cable for cameras and sensors. Aruba provides the only centralized encryption wireless mesh architecture so that the benefits of resilient mesh technology do not sacrifice security and manageability.

Emergency Response

Emergencies can place extraordinary stress on campus information technology resources. Usage is often more concentrated and mission-critical applications such as mobile telephony and broadcast voice/PA systems can suffer from the congestion. This is especially problematic for wireless LAN systems that weren't designed as mission critical networks. Aruba addresses these requirements with a set of unique features.

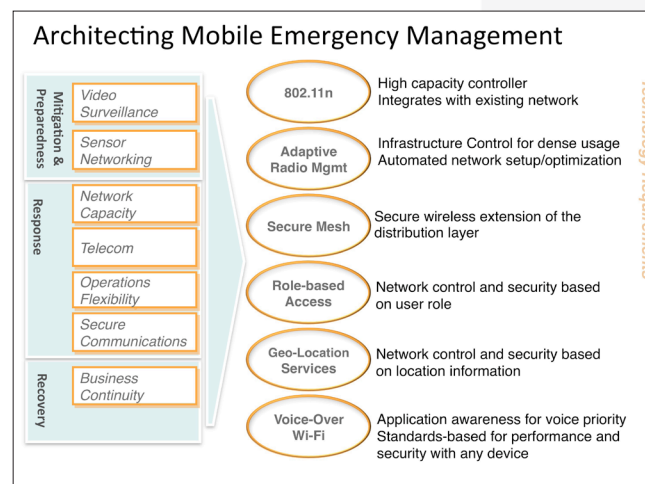
The Aruba solution is built on the highest capacity 802.11n mobility controller in the industry and can be set up in a redundant configuration to ensure that the network stays up and can handle even the largest traffic loads. Next, Aruba's patented Adaptive Radio Management (ARM) 2.0 technology optimizes network and client behavior to ensure consistent performance for multiple mission-critical applications sharing a common wireless LAN.

Finally, with the only integrated stateful firewall in the industry, the Aruba solution can use context of user role, device, application, and location to provide high quality of service exactly where it is needed and to deliver notification messages that are relevant and timely.

Recovery

Business continuity during and after an emergency cannot be an afterthought. A recovery plan must be in place not just for business operations but also to accommodate for the many facets of a university's activities from research and development to learning and class progression when the physical campus structure is either unsafe or unavailable.

Two functional requirements that can be addressed through mobility include remote access and interactive learning. Aruba's unique centralized remote access approach eliminates the need to replicate data center services in each location or to deploy cumbersome and insufficient solutions like VPN clients. The Aruba Remote AP solution is an inexpensive way to replicate the campus wired and wireless network to remote locations and mobile command centers or to faculty and staff home offices and student's homes.



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