



## **WIRELESS NETWORKS ARE NO LONGER FOR CONVENIENCE, THEY ARE MISSION CRITICAL.**

We live in a wireless, BYOD, IoT world, and organizations want fast, consistent enterprise-wide access both private and public cloud applications and data. Today's #GenMobile workforce expects to be able to work anytime and from anywhere. Solid WiFi coverage and security is essential in the current digital workplace.

### **MOBILE AND IOT RAISE CHALLENGES FOR IT**

According to a recent Goldman Sachs survey of CIOs, the top networking spending priorities for the next twelve months are network management and security as well as bundled wired and wireless offerings. There's a general consensus that the new mobile-cloud model raises IT challenges and CIOs will spend lots of time trying to figure out how to put the right infrastructure in place.

### **PERFORMANCE AND INTEGRATION ACROSS THE WIRED AND WIRELESS NETWORK**

The move to mobile-cloud means that wireless is no longer an add-on to the wired network. It needs to be incorporated into the infrastructure design from the start and should be treated as the primary means employees will get most of their business done. However, the peripheral and headless devices will also rely on wireless and Ethernet connectivity. Network operators, who are responsible for keeping the network up and running, need tools that easily deploy the infrastructure end-to-end, secure it, and collect performance information on a continual basis.



## KEY DELIVERABLES OF WIRELESS NETWORKING



### Access

You need the best in coverage and performance for a mobile-first workplace



### Security

You can't control what your network doesn't understand.



### Visibility

You can't manage what you can't see.



### Location-based Services

Wireless Analytics and ways to monetize your wireless investment.

## HOW THE WEI EXPERTS ADDRESS THESE NEEDS

WEI understands wireless technology and that security is paramount. WEI has relationships with the top wireless networking and security vendors and we'll customize a solution that is right for your needs. Cisco and Aruba are two of the best known wireless networking manufacturers and we'll take a brief look at their solutions.

### Cisco

Cisco offers a comprehensive, cutting edge wireless network solution that offers tools to manage volume on high density networks (HDX), flexible bandwidth selections (FlexDFS) to alleviate congestion and improve throughput, geo location services to help pinpoint activity and enable applications such as mapping, dispatching and routing, CleanAir™ to help eliminate interference that can cause dropped packets and Cisco ClientLink beamforming that improves performance for all clients. Coupled with Cisco Aironet access points, wireless LAN controllers, remote management, built in security and intrusion detection and prevention, Cisco offers complete wireless and hybrid network solutions that can be configured to meet the needs and budget of any size organization.

### Cisco Meraki

The Cisco Meraki wireless LAN offering is 100% cloud managed for faster deployment, simplified administration and richer visibility. This wireless solution includes a complete, robust feature set right out of the box. No additional purchase required.

The Meraki MR series is the world's first enterprise-grade line of cloud-managed WLAN access points. Designed for challenging enterprise environments, the MR access points

use advanced 802.11ac and 802.11n technologies including MIMO, beam forming and channel bonding to deliver the throughput and reliable coverage required by demanding business applications

### Aruba—Cloud Based Solution

The controllerless architecture revolves around simplicity. Aruba offers solutions designed for the cloud-based businesses of today. With contextual security features, mobile readiness and cloud deployment, the Aruba network solution is up to the challenges of a changing world.

Aruba Instant is an easy to deploy, fast, reliable Wi-Fi connection point that can function as an access point or as a controller to manage multiple access points. It can be managed remotely with Aruba Central and it works with wired and wireless networks from multiple vendors, simplifying network management. It offers a cloud dashboard with all the analytics you need to manage your network across multiple sites and complex workloads.

### Aruba—Controller Based Solution

Today, the controller-based architecture is the primary architecture that is used in large campus deployments. Typically, university campuses, hi-tech companies, large enterprises and large healthcare facilities fall into this category. Security conscious customers like the government, military, finance and insurance companies also prefer to go with a purpose built controller appliance to serve their wireless needs.

## IMPLEMENTATION INSIGHTS

Cloud deployment of network management solutions offers major benefits. You can usually deploy the solution within a few hours or days without a lot of training or tweaking of the configuration settings.

The centralized management dashboards both Cisco and Aruba offer enables you to monitor and manage the entire network from anywhere at any time, eliminating wasted effort and improving uptime statistics. You can easily balance workloads and allocate bandwidth to maximize performance for critical applications and ensuring the maximum efficiency and performance for your entire network.



## A WEI-DESIGNED WIRELESS NETWORK PROVIDES:

Security that lets you sleep at night

Consistent, Fast Access

Cost Effectiveness

Flexible and Modular solution

IoT Readiness

Built in Analytics

Remote Management

Cloud, On-Premise, Hybrid Deployment

## ABOUT WEI

**WEI is an innovative, full service, customer centric IT solutions provider.**

**Why WEI? Because we care. Because we go further.**

At WEI, we're passionate about solving your technology problems and helping you drive your desired business outcomes. We believe in challenging the status quo and thinking differently. There are a lot of companies that can take today's technology and create a great IT solution for you. But we do more. We go further. And we have the customer, vendor and industry awards to prove it. WEI is a premier technology partner, who always puts our customers first while providing the most innovative solutions for over 25 years.

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Built in security, perimeter and intrusion detection helps keep your sensitive data secure regardless of where or when users try to log in.

The cloud also provides a more flexible and resilient network than on premise solutions can offer. Cloud providers have built in redundancy and backup servers to ensure continuous operation with no loss of data.

The single homogeneous architecture across all sites can simplify network management and reduce the amount of training your IT team to be productive.

## MOVING FORWARD WITH WEI

All access points are created equal but all solutions are not. Wireless networking technology is moving at a fast pace and this is where WEI can add significant value. WEI has engineers focused on keeping up with all available options in the industry and will design the best solution for you. As a result, partnering with WEI will provide you with the expertise you need to develop the best path forward for you.

## WEI HAS MADE SIGNIFICANT INVESTMENTS TO BRING YOU THE LATEST WIRELESS INVESTMENTS THAT INCLUDE:

- **RF Coverage Maps**—RF coverage area contour maps for the areas requiring wireless coverage to help determine the required number of access points and provide information about RF leakage and coverage gaps.
- **RF Analysis**—Information and location of potential RF issues related to the facility structure, interfering sources or other rogue wireless access points.
- **Capacity Plan**—Guidance on capacity needed to support VoIP, Tablet applications and BYOD devices as well as other user requirements.
- **Channel Plan**—Guidance on correct channels to use all AP's to avoid channel overlapping and interference.
- Recommend locations for installing AP's to cover all locations as well as the necessary wiring.
- Any additional recommendations for network infrastructure in order to support the successful deployment of a wireless network.