WHITE PAPER:

Modernized Networks for the Digital Workplace

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Reduce Costs & Increase Productivity

Making the move to mobile technology is the fastest way to boost workforce productivity, creativity, and loyalty. For IT, this means embracing cloud solutions and supporting a growing number of devices they don't directly control. Plus, as more communications shift from wired to wireless, IT has to evolve its networking infrastructure to ensure reliable connectivity for all without adding to management complexities or compromising security standards.

This especially holds true in today's Bring Your Own Device (BYOD) world, where employees bring their own smartphones, tablets, and Internet of Things (IoT) devices to work. Gartner has forecasted the usage of IoT devices will reach 20.8 billion by 2020[1], and many of them will be utilized in the workplace to access data.

These devices become even more important with more and more employees, who are working from home, at branch offices or on the road, requiring true anytime/anywhere access to their email, network, and shared drives.

[1] Gartner, Gartner Says 6.4 Billion Connected "Things" Will Be in Use in 2016, Up 30 Percent From 2015

For IT professionals, the chance to create a true digital workplace offers an exciting opportunity to increase agility and innovation by adopting new cloud solutions and mobile technologies. There are key specifications that every IT group needs to address when designing a future-proof WiFi network, including the ability to do the following:

- Optimize coverage and ensure "fair access" for all users that require wireless access
- Boost network speeds to user productivity at all times
- Bring networking resources from all vendors under the control of a single management solution
- Set global security policies that can restrict access based on user, content, application, device type, device configuration, update status and more
- Gain end-to-end visibility into device health, network performance, application usage and other metrics to proactively preempt issues and rapidly troubleshoot all mobility problems
- Easily deploy self-administrating guest portals with predetermined usage parameters
- Ensure scalability with a networking solution that lets IT quickly adopt innovative collaboration, video conferencing, hot-desking environments, and more.

A Mobile-First Approach

BYOD is a growing frustration for IT system and network administrators, who need to make sure all employees have access to their files without having visibility into the security of those devices. This is what keeps sys and network admins up at night worrying about security issues.

As companies move to a digital workplace with remote access needs, many employees will connect via their own or public WiFi. However, the use of BYOD and IoT on days when employees are in the office means that you can't forget your wired infrastructure. Always-on connectivity becomes extremely important, so you'll need high performing switches to team up with WiFi.

To ensure reliable WiFi service, network access, and application performance, IT needs to be able to optimize where it matters most—between users and mobile networks, from the data center to the branch office, and between LAN and WAN connections. At the same time, IT departments also need to keep up with device proliferation and the increased demand for bandwidth this trend creates.

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Why Go Digital?

With Aruba, a Hewlett Packard Enterprise Company, and the Aruba Digital Workplace, your business and your network will reap countless benefits.

- **Enhanced workforce collaboration and productivity.** Employees will gain anywhere/anytime desktop and mobile access to a collection of tools like IM&P, voice, web conferencing, video, and application sharing to support real-time collaboration
- **Reduced communication costs.** Aruba Digital Workplace provides audio conferencing and long distance service at a fraction of the cost of traditional plans.
- **Reduced TCO.** You'll be able to centralize communications architecture and reduce operations and management costs with a high-speed, scalable solution that leverages lower cost technology
- **Improved security, flexibility, and growth.** You'll mitigate risks by consolidating control and security for sensitive data and intellectual property in the data center.

Network Security

Aruba's ClearPass family of solutions offers you a unique advantage over the competition with real-time, agentless profiling that can be acquired as a standalone appliance or within a comprehensive policy enforcement solution.

Both of these unique options allow you to continuously identify endpoints and network devices on non-AAA or AAA-enabled wired and wireless networks—be it through dynamic or static IP addresses. Comprehensive dashboard visuals make it easy to see the total number of endpoints, filtered by category, family, and device type.

ClearPass solutions help you discover endpoints with unsurpassed ease by identifying and profiling attributes that determine device category, vendor, operating system, IP address, hostname, owner, and more. Automatic and IT-customizable endpoint classification ensures that new and unknown IoT devices are quickly placed into the proper device families for visibility and security enforcement.

Aruba ClearPass also offers:

- Automatic detection and categorization of endpoints for security and audit demands
- Continuous monitoring of all devices, including those that come and go
- Agentless visibility that lets you find devices like BYOD smartphones and IoT devices
- Contextual attribute sharing that extends visibility to a wide range of security and IT services solutions
- Improved network performance and security by understanding the number of endpoints, types, and their attributes

Ensure WiFi Availability & Boost Reliability

Aruba Access Points and Controllers:
With standard support for the next-gen 802.11ac Wave 2, these solutions offer faster transmission speeds and address the density challenges device proliferation presents. To increase service accessibility, they support new multi-user, multiple input/multiple output (MU-MIMO) techniques while offering 30% more battery life.

Aruba ClearPass:
Gain complete visibility and control over multi-vendor networking environments. With Aruba ClearPass, IT can set policies that determine which users and device profiles can access which content, applications, and corporate access portals.

Aruba AirWave:
See the entirety of client behavior and RF issues so you can proactively troubleshoot application and infrastructure issues.

HPE Campus Switching:
By integrating mobile networks with a wired solution that ensures agile, scalable switching from edgeto core, IT can leverage all of its assets to improve performance for applications deployed in both data center and cloud environments.

HPE Software Defined Networking:
Leverage software-based solutions to inject more intelligence and automation into security, buildout, and management processes.

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Network Assessment

Today, IT departments are challenged to develop and implement a reliable, efficient IT network. This requires time to plan, strategize, and be proactive in their support. Is your network ready to take on the changes in business? Are you following best practices? Are you positioned to take advantage of evolving technology and changes in work dynamics?

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All-Star Networking Expertise

At Zunesis, our solution architects are the secret sauce to help you get what you need, as they have particular expertise with Aruba to help design and deploy solutions. Whether your company's goal is to consolidate your data center or build-out, improve compliance, or business continuity, we can help accelerate your transition to a highly scalable and secure networking platform with a strong portfolio of world-class products that support the networking and security needs of our customers.

As a Hewlett Packard Enterprise Platinum Partner, Zunesis can show you how to leverage next-gen Aruba and HPE networking solutions to create a faster, more reliable, highly secure corporate network.

We've maintained our Platinum partnership level with Hewlett Packard Enterprise for over ten years. As one of the largest HPE IT solution providers in the Rocky Mountain/Southwest area, we have extensive experience and expertise in all major enterprise infrastructure solutions offered by Hewlett Packard Enterprise.

Boost workforce creativity, productivity and loyalty with solid anytime/anywhere wireless experiences. Make sure your infrastructure is ready for innovative cloud and mobile tech—contact Zunesis for a network assessment today.

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