SOLUTION OVERVIEW The Hybrid Workplace

Adapting to the New Normal with Aruba ESP (Edge Services Platform)

In the past few decades, technology has shifted how we live, work, and interact with others. This mobile era has changed everyday things like banking and shopping, to how we design and configure our office spaces. So, it is no surprise that technology will be a key factor in how we get back to the office post-sheltering in place. And while human behaviors (wearing masks, taking care to socially distance, etc.) will be the most important short-term elements in minimizing a new surge in COVID-19 infections, technology will again be the great enabler of what's possible for the new normal supporting things like density planning and behavioral goals—all in a seamless and secure manner to keep the workplace safe and employees connected.

But what happens when we look longer term—after that initial push back to the office? How do we enable a hybrid work environment where employees move seamlessly between working from home and returning to the office for in-person collaboration and meetings. How to foster workplace culture when the experience shifts to this new model. And the role of the network infrastructure as workplace design once again evolves to accommodate this new normal. Because one thing is clear—connectivity, and the technologies that support it, will be even more important in setting the foundation for the hybrid workplace.

The consensus seems to be that the return to the office and beyond will be a three-phase journey.

- The first, work from home, is where many companies are today.
- As we begin to move into phase two, many organizations are now planning to return at least some portion of the workforce to the office.
- The third phase will be a hybrid environment, which envisions a completely new approach to workforce management, facilities, and connectivity – where there's a mixture of employees that come to the office on a daily

basis, and those that continue to work from home and visit the office on occasion for meetings and customer engagements. Phase 3 will build on the lessons learned in phases one and two and will encompass planning for the office of the future.

THE NETWORK AS THE FOUNDATION

Each phase of the journey has a common set of challenges associated with connectivity, management, and security. **Aruba ESP**—a cloud-native and Al-driven platform—is specifically designed to address these challenges and serves as the foundation for enabling the hybrid workplace. With Aruba Central at the heart of the solution, Aruba ESP provides a cloud experience that can be consumed either as a service in the cloud or on-premises. It can be delivered as a managed service through Aruba partners or via network as a service with **HPE GreenLake**.

Aruba ESP utilizes a cloud architecture to ensure ultimate flexibility and scalability when the situation calls for it – like the recent rush to enable a distributed workforce for business continuity – while enabling centralized management and AI-powered automation. Aruba ESP provides a single pane of glass for wireless, wired and WAN infrastructure across campus, branch, remote worker, and data center locations for a unified operational model. This becomes increasingly important as the workplace is dispersed, because it simplifies network operations and management across any environment. And built-in Zero Trust Security means that the network remains secure, regardless of where employees or devices are connecting from.





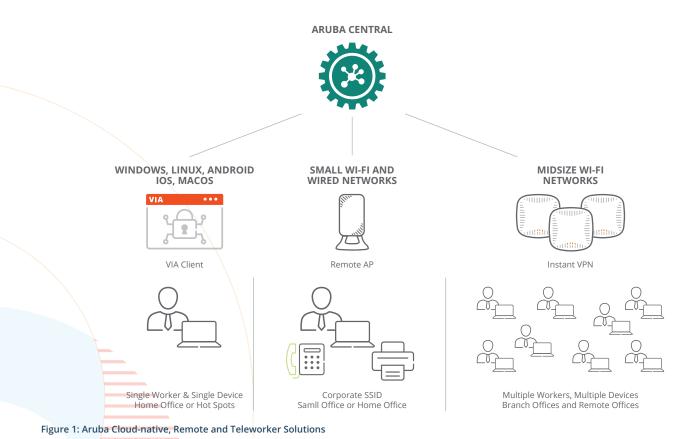
Work from Home – Secure Connectivity Takes Center Stage

The global pandemic threw the world into a crisis situation where companies had to quickly enable a distributed workforce at scale to maintain business continuity. Aruba was able to use our expertise in remote connectivity solutions to securely and seamlessly extend the enterprise to the home office – managed by Aruba Central. **Aruba Remote Access Points** (RAPs) not only supply home wireless connectivity that is identical to an in-office experience (down to the SSID), they also support Zero Touch Provisioning (ZTP), ideal for the non-technical home worker. Aruba RAPs also support identity based Zero Trust Security and cloud management designed from the ground up to enable IT to manage and troubleshoot an employee's network from a remote location.

The **Aruba VPN soft client**, **VIA**, for mobile devices such as phones and tablets, offers a secure solution that enables access and security from anywhere to provide a complete remote workforce portfolio. These solutions were a much needed foundation for quickly maintaining business continuity in the face of the crisis.

ARUBA ESP ZERO TRUST SECURITY AND PRIVACY

Security and privacy go hand-in-hand. Aruba's Zero Trust Security framework ensures that the data being collected for proximity solutions is always protected. It starts with military-grade encryption that moves sensitive information securely and efficiently throughout your network. User and device access are controlled using Aruba's embedded **Policy Enforcement Firewall** (PEF) to dynamically micro-segment traffic based on centralized corporate policies defined in Aruba ClearPass Policy Manager. It all adds up to advanced protection that is native to Aruba's wireless, wired and WAN infrastructure.



SOLUTION OVERVIEW THE HYBRID WORKPLACE



PHASE 2.

Return to the Location-aware Office – Ensuring Employee Wellness and Safety

As organizations plan for the safe return to the office, solutions that support density planning and behavioral goals are essential. This makes things like contact tracing possible and means technology can also encourage social distancing. Aruba's 500,000 customers already have the network foundation in place to easily deploy these solutions. No need to rip and replace, no forklift upgrades required.

Aruba access points are platforms that include Wi-Fi, Zigbee and Bluetooth radios that deliver the Smart Telemetry – precision indoor and outdoor location data – necessary for these new applications. And to help with this phase of recovery, Aruba is providing Al-powered, cloud-based proximity solutions that will operate seamlessly on existing Aruba networks. These include:

- **Contact tracing** using Wi-Fi and Bluetooth to minimize virus spread by quickly identifying employees, visitors, or customers who may have come into contact with an infected person
- Hotspot or heat mapping of locations that carefully pinpoint physical locations that require quarantining and special cleaning schedules
- Purpose-built **dashboards and reports** in Aruba Central to accelerate discovery and investigation
- Al-based **data enhancement** to relieve IT from time-consuming collection and analysis to enable HR to quickly respond and take the necessary action in real time
- Point and click views and filters that provide precision site, building, floor and access point granularity across a wide range of user and device attributes

Aruba's cloud-delivered services are complemented by a broad range of solutions delivered through our extensive partner ecosystem. Using Aruba APIs, connectivity, and telemetry data, these partners are able to provide robust return-to-work solutions, with the controls necessary for maintaining privacy and confidentiality.

LOCATION DATA OR AIOPS FOR CONTACT SOLUTIONS?

You will hear a lot about using location data, but how do you turn that into useful actionable information? Many wireless vendors will supply a large amount of raw data—which is table stakes, but then it's left up to you to interpret how to use this data for employee health and safety solutions. How do you distinguish between contacts that are separated by walls from true personal interactions? Given that we all use use multiple devices, how do you build a comprehensive contact profile that correlates devices to users? Will the data provide a proximity "risk score" to prioritize action? Aruba offers location solutions that start with precision location data post-processed by Al-based Machine Learning and are visualized by graphically-rich applications to solve these challenges. You are provided with accurate contact and location information without the guesswork. This relieves HR from the overhead and delays associated with correlating data and manual analysis, so they can focus on protecting employees.

• Rapid set up on any existing Aruba infrastructure



Aruba Access Points Collect Smart Telemetry Location Data



Data streamed to visualization and AI/ML Proximity Models



Figure 2: Aruba AIOps Uses Smart Telemetry and AI Modeling to Power Location Solutions





PHASE 3.

The Hybrid Office – A Long-term Blended Approach

As we learn what the new normal really means and the blend of home and physical offices becomes better understood, the hybrid office will come into focus. We expect this blended workplace to consist of a new generation of home office products and form factors that build on current work-from-home solutions like RAP's, while new campus guidelines for density and space management will require flexibility, intelligence and fluid, seamless connectivity with remote locations for a consistent experience—no matter where employees connect from.

The reimagined office will increasingly rely on Wi-Fi, Bluetooth, IoT sensors, and other capabilities that build on what we've learned in phases 1 and 2 of the business recovery journey. Where can touchless solutions be used more effectively? How does the network play a bigger role in security and crisis management, should any health or other type of emergency arise? What about automatically adjusting physical and environmental factors for each individual based on their learned preferences?

With a rich set of open APIs and high quality, AI-curated data, Aruba is actively mapping out what the new workplace may look like and the benefits it will provide. Long established partnerships with key leaders in the field of office architecture, design and furnishings, such as Gensler and Herman Miller will help to redefine next generation spaces. Additional technology partnerships will address smart building and long-term health and safety challenges, regardless of where employees and visitors connect.

WIRELESS ACCESS POINTS AS APPLICATION PLATFORMS

Aruba wireless access points provide the foundation of the new workplace. With built-in Wi-Fi, Bluetooth, and Zigbee radios supplemented by a simple USB extension, Aruba APs allow you to accommodate any device protocol from a wide range of sensors, cameras, and similar IoT devices. Aruba's cloud-based Developer's Hub provides application developers comprehensive resources that include Aruba Open APIs, native support for tools such as Ansible, and documentation to streamline the development of innovative, next-generation applications.

THE HYBRID WORKPLACE STARTS WITH THE NETWORK YOU HAVE

With 14 straight years in the Gartner Wired/Wireless Leader's Quadrant, Aruba's leadership and innovation in secure connectivity is proven and is the foundation for all three phases of the reimagined workplace. Aruba's portfolio and solutions are designed to work in every customer environment—from small businesses to the enterprise, remote, branch, campus, data center, and cloud. No matter where the journey may lead, Aruba customers can count on having a network that offers the connectivity, security, management, AI, and data insights necessary for the future.



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