

A man wearing a light blue face mask and glasses is sitting at a wooden desk in an office, working on a laptop. He is wearing a light-colored blazer over a blue shirt. In the background, another person is visible, also wearing a face mask. The office has a modern, open-plan feel with large windows and warm lighting.

aruba

a Hewlett Packard
Enterprise company

Reimage The Workplace

Empowering Users to Move
Seamlessly, Securely and Safely
between Home and Office

Sriharsha Narasimhan
CTO, Aruba India

Sriharsha Narasimhan

Sriharsha Narasimhan is Chief Technology Officer for Aruba, Hewlett Packard Enterprise. His core responsibilities include driving technology and strategic initiatives around Digital Experiences, Network Analytics, Network Security, Location Based Services, IT-OT and IoT across industry verticals. He is with Hewlett Packard for over 19 years and held multiple roles across strategy, management, engineering, and solution architecture.

Sriharsha has over 32 years experience as an IT professional with expertise in architecture, design, and development of embedded & enterprise solutions across market verticals. Prior to joining Hewlett Packard in 2001, he has worked for multiple organizations in India and USA, where he successfully lead teams in product development & engineering, sales and management areas.



Agenda

- Post Pandemic Challenges
- Aruba's Vision and Approach
- Recommendations for Hybrid Workplace
- Technology Enablers
- Summary



sriharsha.narasimhan@hpe.com



@sriharshaz



<https://www.linkedin.com/in/sriharsha-narasimhan/>



BUSINESSES FORCED TO TRANSITION TO A HYBRID WORKPLACE



Phase 1

Jan – Mar 2020

Transition to work from home with connectivity and security taking center stage



Phase 2

Jul – Sep 2020

Enabling a safer return to the office and campus with an emphasis on use cases such as contact tracing



Phase 3

2021+

Reimagining the Hybrid Workplace and adapting to the "New Normal"

THE "NEW NORMAL" CREATES SIGNIFICANT CHALLENGES FOR IT TEAMS



Widespread impact on employees and IT projects with significant budgetary headwinds



IT requirements are less predictable, increasingly fluid, and require the agility and flexibility that comes with Cloud infrastructure



IT professions are looking for a more automated approach that leverages technologies like AI

**IT LEADERS PLAN TO INCREASE THEIR SPENDING IN
CLOUD NETWORKING BY 38% and AI BY 35%**



Source: Aruba Edge Study 2020

Organizations need to seize this moment to review longer-term strategies and not conflate them with the immediate demands of this crisis.

Lori Gee,
VP of Client Workplace Performance, Herman Miller

aruba

a Hewlett Packard
Enterprise company



POWERING THE HYBRID WORKPLACE

ARUBA'S VISION
AND APPROACH

aruba

a Hewlett Packard
Enterprise company

TOP CONSIDERATIONS FOR BUILDING A HYBRID WORKPLACE

What kind of workplace suites my organization?

Which roles and personalities thrive in a remote work environment? Which find it more challenging?

How do I maintain company culture with an increasingly distributed workforce?

How can technology make the workplace more flexible, healthy and productive?



RECOMMENDATIONS FOR IT PROFESSIONALS

**Create location-
independent productive
work environments**

**Leverage the power of AI
and Cloud to automate
and simplify manual tasks**

**Use network intelligence
to operationalize
preventative and reactive
health and safety
measures**



Phase 1: Enable Secure Work From Home

Priorities and Pain Points

Easily installed
remote connectivity

Re-creation of
Corporate office
environment

Corporate security
policies

Enterprise scale

Centralized
management



Phase 1: Enable Secure Work From Home

Aruba Solutions

Easily installed
remote connectivity

Re-creation of
Corporate office
environment

Corporate security
policies

Enterprise scale

Centralized
management



Aruba Virtual Internet Access

Single worker requiring
remote access using a device
running Window, MacOS,
IOS, Android, or Linux



Aruba Remote Access Point

Corporate network projected
to home

Redundant WAN links;
Wi-Fi 6 and WPA3 ready



Aruba Instant VPN

Multiple workers with multiple
wired or wireless devices in
branch offices or remote
offices

Secure and office like access to Corporate Executives
and critical teams, like legal, finance, controllership,
customer service with plug-n-play convenience



Phase 2: Return to office

Priorities and Pain Points

Establish employee confidence through enhanced health and safety processes



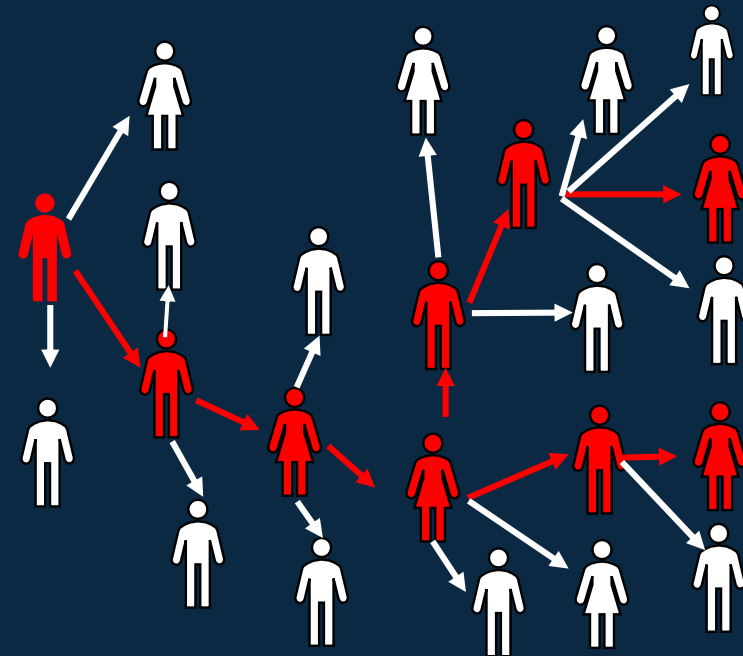
Leverage current Aruba Infrastructure



Security and privacy

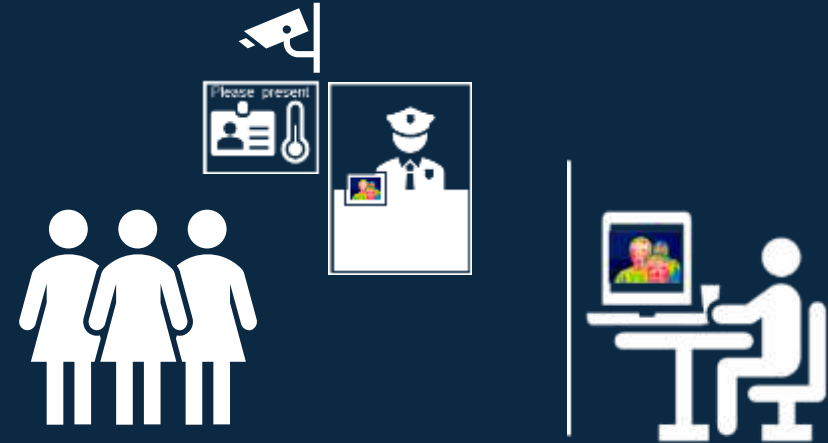
Track and optimize sanitization activities

Minimize adverse publicity



Employee Health and Safety

Authorized for RTO, Health check and compliance monitoring



Revised Security Check for employees

- ✓ Authorized to work in office (that day)
- ✓ Healthy to enter office
- ✓ Adhere to new safety / sanitary norms

Regulatory Compliance Requirements

- ✓ Log employee presence + health data
- ✓ Monitor occupancy & density levels
- ✓ Accelerate discovery & investigation



Connectivity and Location Services already available

Natively generated location data to power contact and location tracing



Aruba 300 and 500 Series Access Points



Aruba Meridian based app and Asset Tags



CONTACT AND LOCATION TRACING

With WI-FI Location Data

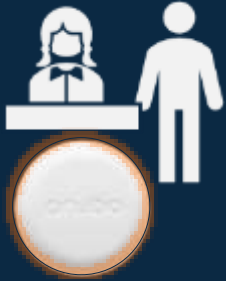


Contacts traced
(sorted by total contact minutes) with each infected person



CONTACT AND LOCATION TRACING

With Meridian and BLE Location Data



Users are issued
Aruba Tags



Aruba 300/500
series APs sense
tags in-building



Meridian cloud
determines tag
locations



Data streamed to
visualization and
rules engine SW



User is sick and
informs HR



HR looks up user tag and queries
contact tracing SW for potential user
and location contacts

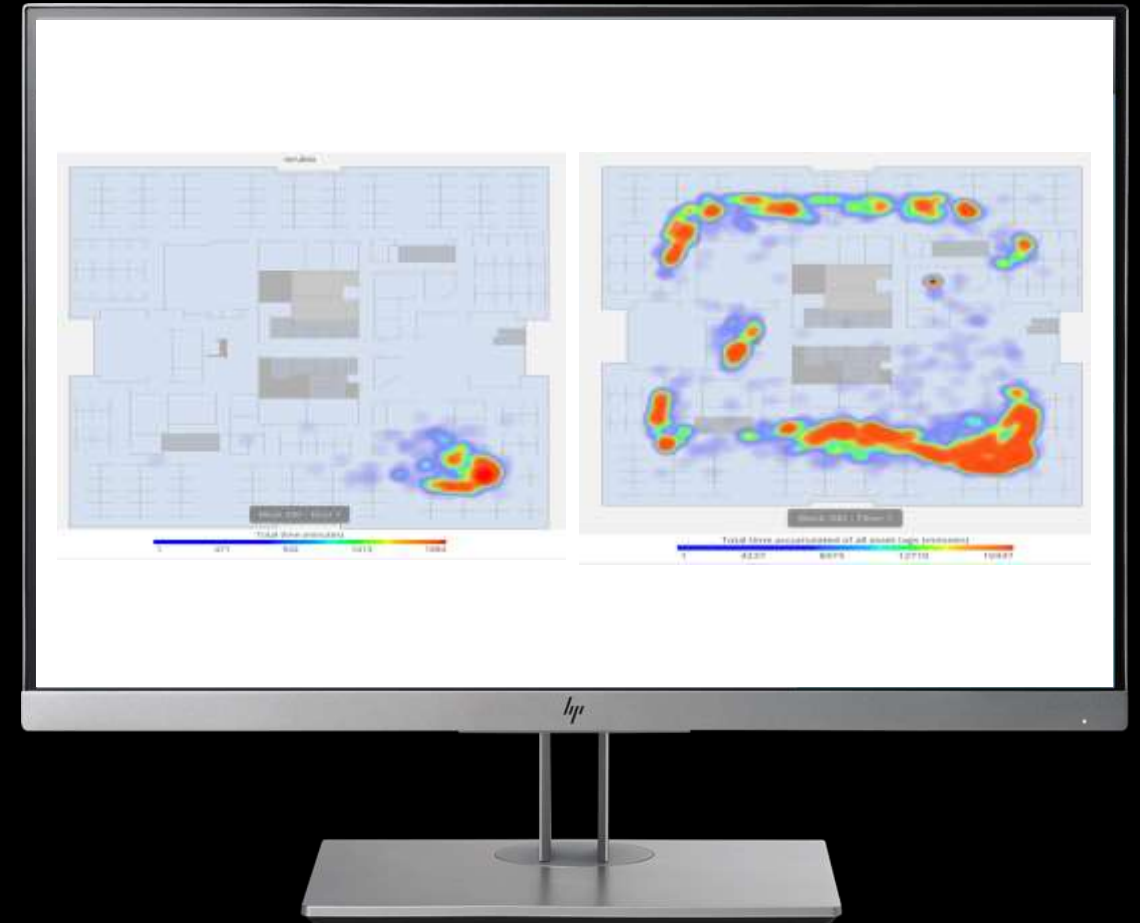


Contacts traced
(sorted by total
contact minutes) with
each infected person

Locations traced
listing dwell time at
various AP/building
locations for
sick person.



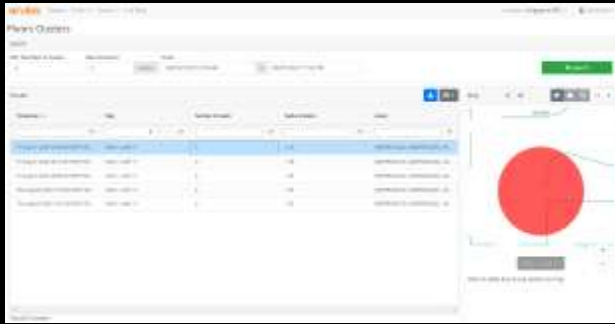
NETWORK INTELLIGENCE: IMPACTING PHYSICAL WORLD



NETWORK INTELLIGENCE: CONTACT TRACING SOLUTION



A dashboard titled 'Route History' showing a table with columns for 'Route ID', 'Start Time', 'End Time', and 'Status'. The table contains several rows of data.



A dashboard titled 'Level Contacts' showing a table with columns for 'Route ID', 'Start Time', 'End Time', and 'Status'. The table contains several rows of data.

A dashboard titled 'Route Exposure' showing a table with columns for 'Route ID', 'Start Time', 'End Time', and 'Status'. The table contains several rows of data.

Network Should Provide **More Than Connectivity**

Analytics to address compliance to max capacity, social distancing and contact tracing



Solutions from Aruba Technology Partners



COVID-19 Rapid Containment
Reducing Employee Health Risks after COVID-19

EMPLOYEE SAFETY
Business continuity
Rapid containment
Protect

COVID-19 Social Distancing Solution

Modo WorkReady™
Confidence. Delivered.

OccupancyNow™
An Automated Occupancy and Social Distancing Management Toolkit

Help your customers feel safe, and ensure your venues are maintaining COVID-19 compliance with OccupancyNow™ from Skyfi.

Benefits of OccupancyNow™

- Reduce customer wait times
- Reduce customer wait times
- Reduce customer wait times



Keeping Your Campus Secure During The Shutdown

THE CXAPP
A RETURN-TO-WORK STRATEGY

Features roadmap for a touchless campus environment

- Reducing communication
- Reducing physical touchpoints
- Supporting flexibility



A Non-contact Measurement Solution based on AI - Face capture, suitable for crowd temperature screening (30 people max)

2212HD

CREATING A SAFE WORKPLACE IN A COVID-19 ENVIRONMENT

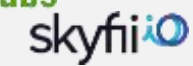
CHALLENGES FOR ORGANIZATIONS

With OccupancyNow™

Solution Components

- Autosight

Proximity Detection | LBS Campus App | Touchless Kiosks | Spatial Analytics | Thermal Imaging



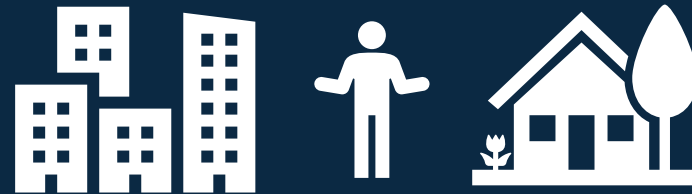
Phase 3: Hybrid Workplace

Priorities and Pain Points

Traditional office space transitions to more on-demand and modular

Focus on “touchless” & autonomous workplace technologies

Increased collaboration between facilities and IT teams



Mobility is key

Aruba on Aruba: Rich insights on space usage trends

Aruba leveraged this data for real estate planning and now RTO planning

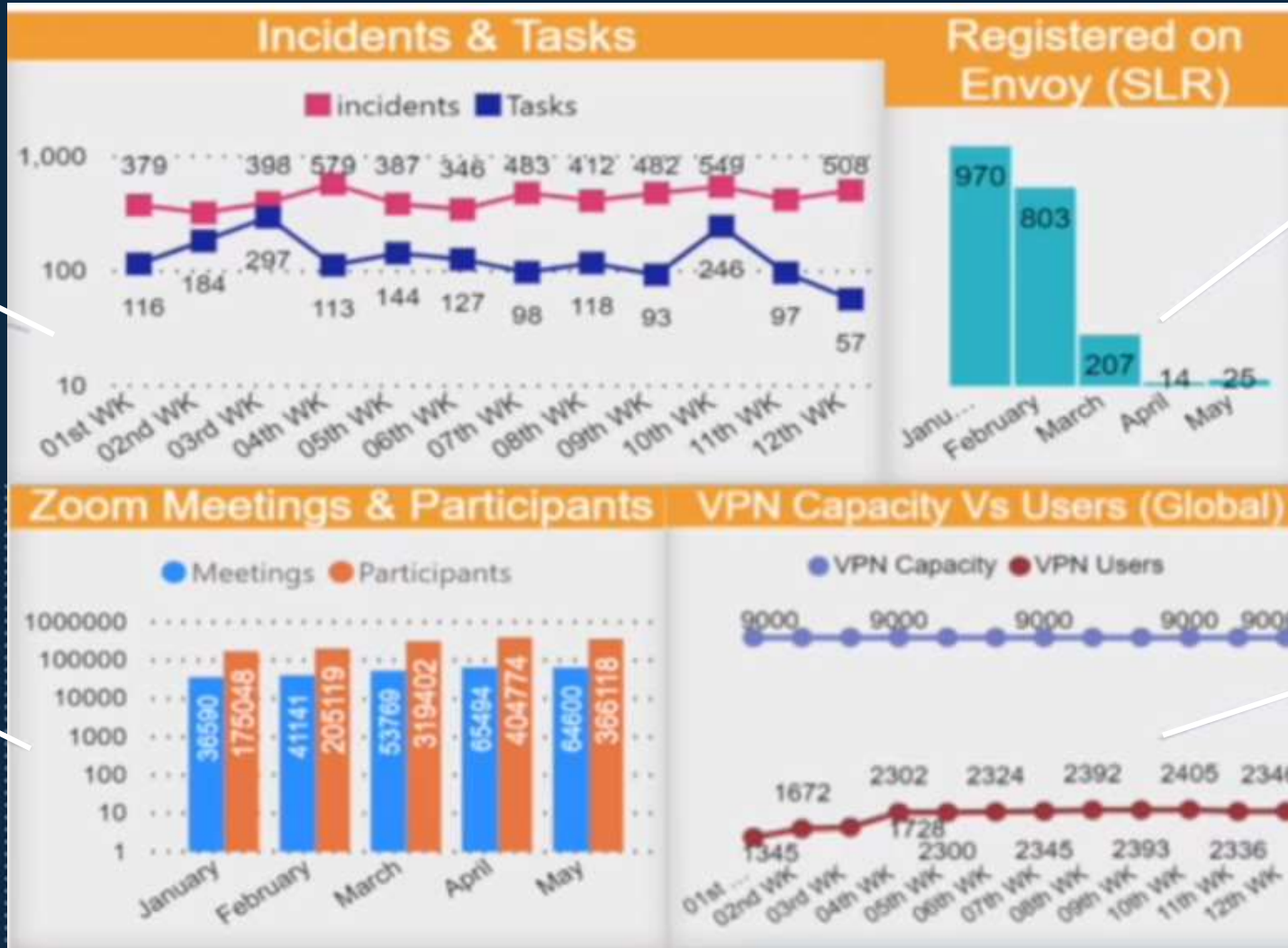


Improve employee office experience with real-world insights to repurpose or increase “touchless” capabilities (like voice command, mobile controlled, focused IoT automation)



Aruba on Aruba: Supporting the New Normal

How is IT supporting Business



End user support increased initially and then leveled off

Campus guest registrations dropped

Video conferencing load nearly doubled

VPN Usage increased approx. 40%



What is the journey to Hybrid Workplace

- ✓ Create a low-touch environment
- ✓ Use data to manage density
- ✓ Introduce flexibility in space management
- ✓ Seamlessly fuse physical architecture and technology
- ✓ Indoor wayfinding, find colleagues and resources in real-time
- ✓ Explore next generation office solutions
- ✓ Transition all employee interactions to touchless
- ✓ Address deep-seated cultural behavior
- ✓ Incidence driven sanitization strategy



Enhance Employee Experience – and Productivity

Huddle spaces

- Instant innovation space
- Easy to book – e.g. via Slack

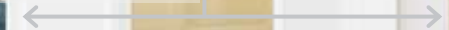


Smart meeting rooms

- Find a room
- Auto-detect
- Auto-setup
- Control lighting and temperature

Digital guest management

- Digital login
- Auto-guest Wi-Fi
- Directions
- Security



Personal workspaces

- Find a desk
- Find team members
- Auto-desk setup



Enterprise benefits

- Optimize energy usage and real estate
- Employee engagement
- Safety & Compliance Management

Aruba Campus – Touchless Ready Smart Workplace



Watch this video at <https://www.youtube.com/watch?v=imcnlzZz3b8&t=6s>

Aruba Campus – Touchless Ready Smart Workplace

Technologies to enable to return to Contactless Workplace



Campus App



Map Management



Visitor Management Solution



Paperless Visitor Management



Guest Wi-Fi enrollment automation



Host notification automation



Meeting room reservation solution



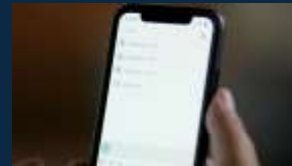
Reserve meeting room with campus app



Work desk reservation automation solution



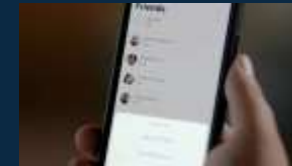
Locate Work desk using campus app



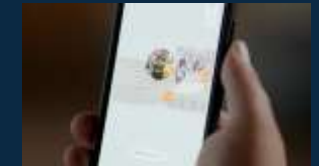
Find resources using campus app



Locate resources using campus app



Find people using campus app



Locate people using campus app



Work from anywhere in office



Creating new physical resource



Mapping new physical resource



Locate new physical resource using campus app



Allotting employee seat for the day

Evolving employee experiences from 2016 onwards



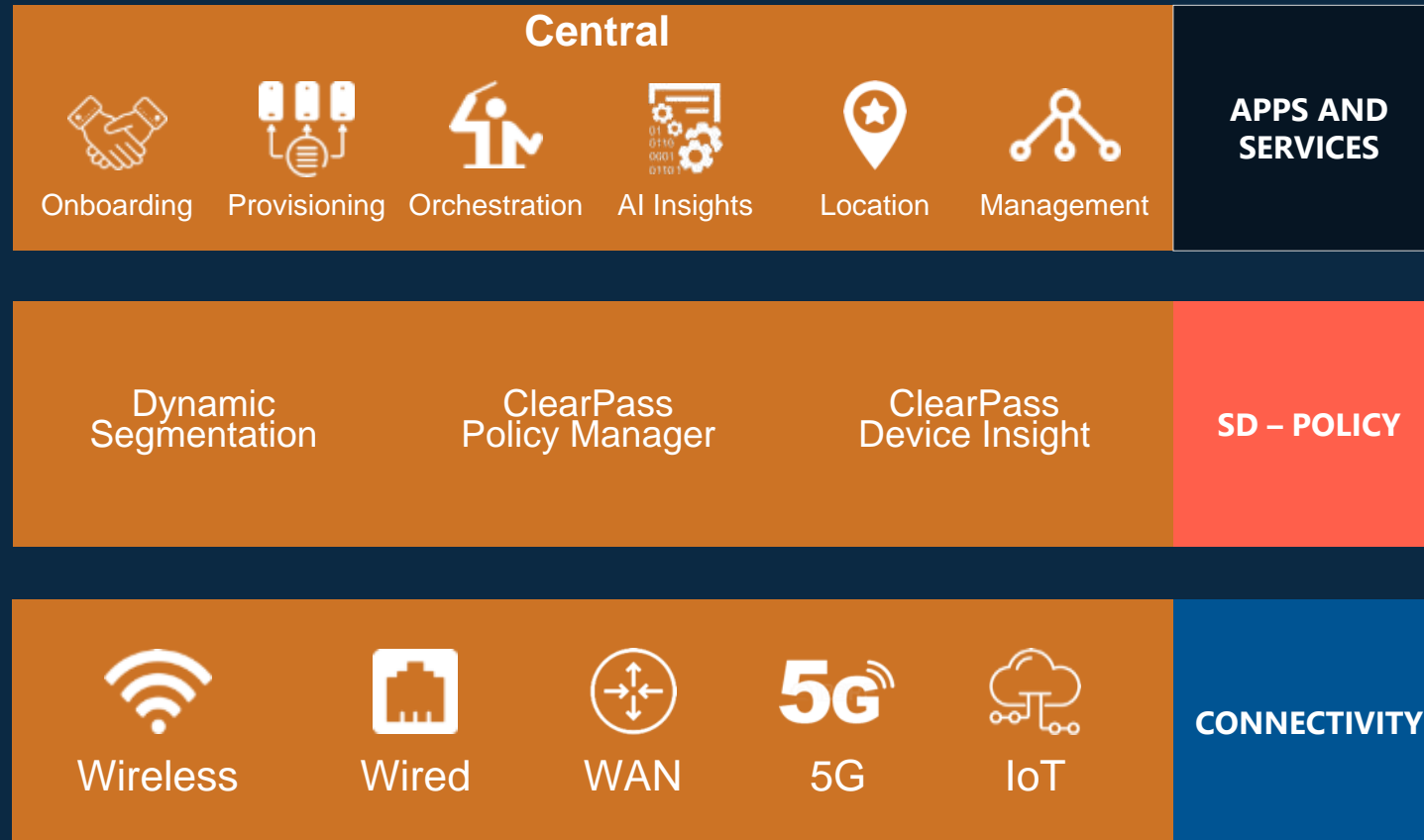
Hyper Aware Foundation for an Autonomous Workplace

Shift in consumption of information and insights

Covid-19 Pandemic Requirements



THE ARUBA Edge Services Platform Architecture



INTRODUCING ARUBA ESP

AIOPS

AI Insights | User Insights



UNIFIED INFRASTRUCTURE

Wi-Fi | Switching | SD-WAN | 5G | IOT



ZERO TRUST SECURITY

Dynamic Segmentation | Device Insight



Financial and Consumption Flexibility

HPEFS | SaaS | NaaS





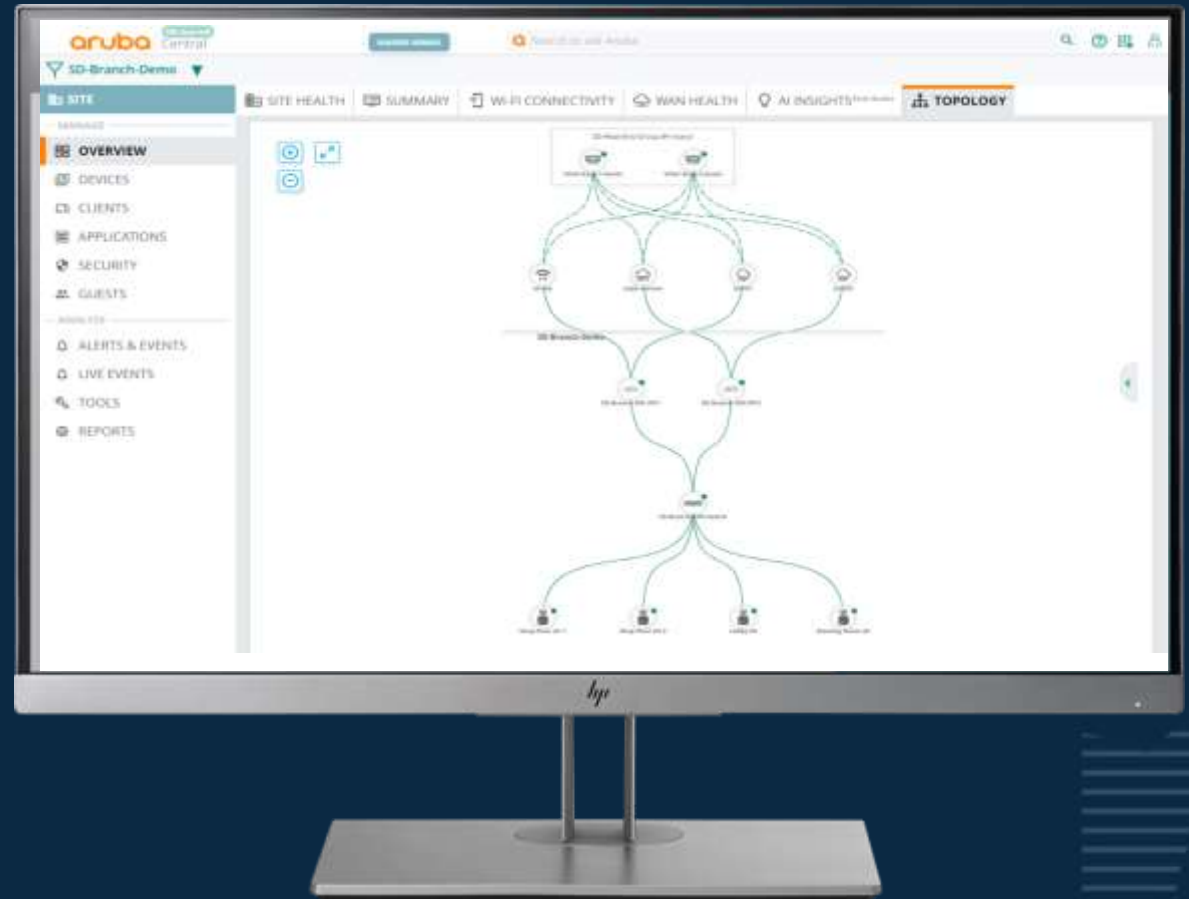
UNIFIED
INFRASTRUCTURE

SIMPLIFY DAILY OPERATIONS WITH A UNIFIED INFRASTRUCTURE

Bringing the Cloud Experience
to the Edge

Cloud-native, single pane of glass
across campus, branch, data center
and remote worker; wired, wireless,
SD-WAN

Enterprise scale

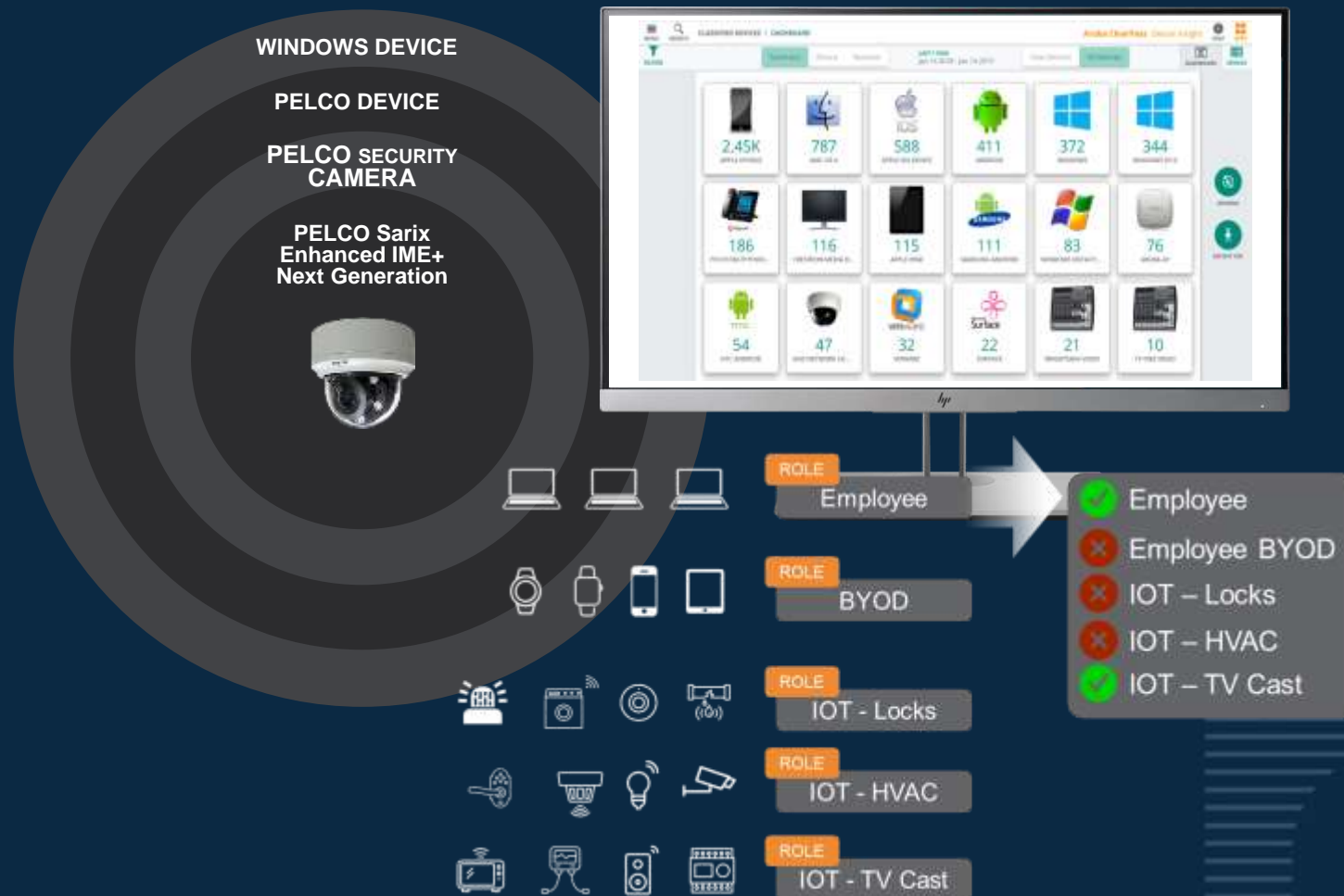




ZERO TRUST SECURITY

PROTECT WITH A ZERO TRUST NETWORK

- Machine learning-based automated device discovery, profiling
- Role-based policy
- Integrated with policy-based access control
- Dynamic Segmentation





AIOPS

ARUBA AIOPS REDEFINING IT OUTCOMES

React and Resolve Issues Quickly

Predict and Preempt issues before they
impact users or the business

Continuously Optimize to ensure SLAs are
met



Future Hybrid Workplace

Connecting the physical office with the “Edge”

Blend of remote and on-site workers



Remote “Edge”

Additional @Home investments around on-premises equipment and ISP backhaul



Physical Office



Blend of remote and on-site workers

New network and workplace tech investments

- “Location-aware” office
- Space planning & contact tracing

Supporting a hybrid workplace through a location-aware mobile app & IoT

Convenience & Safety

- Health assessments & touchless reservations
- Realtime space info (e.g. conf rms, desks)
- Digital badging

Community

- Latest company news & site info
- Townhall & all-hands events

ARUBA SWEEPS INDUSTRY RANKINGS

Gartner®

Magic Quadrant

Gartner®

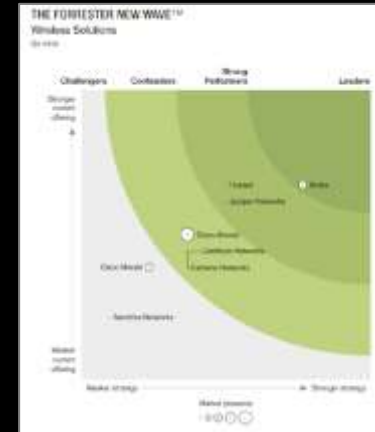
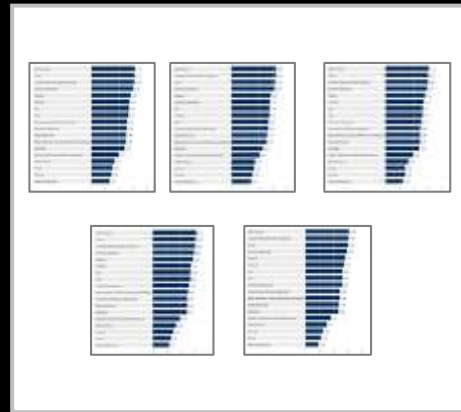
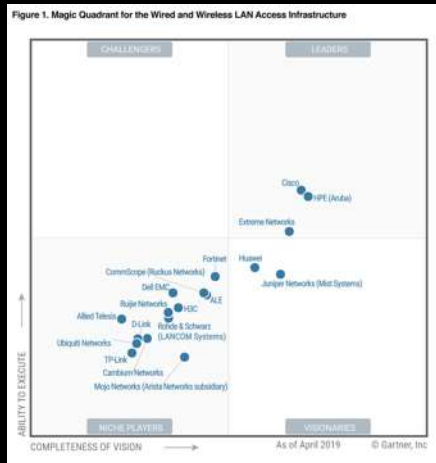
Critical Capabilities

FORRESTER®

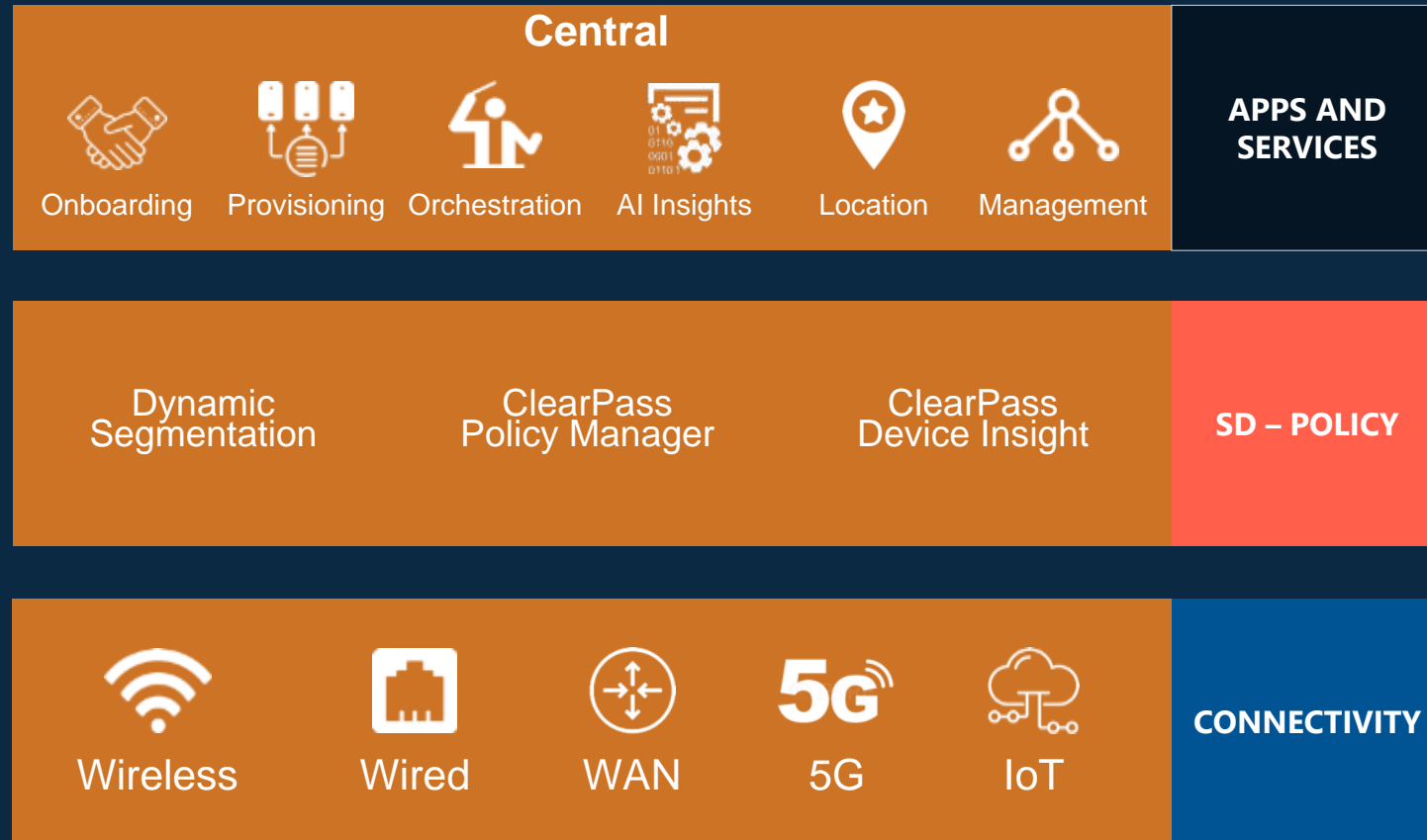
New Wave

IDC
Analyze the Future

WLAN Tracker



THE ARUBA Edge Services Platform Architecture



Summary

- Aruba Hyper aware smart building approach enables organizations to create safer and healthier workplaces
- Aruba Wireless infrastructure can provide contextual data to enable touchless experiences
- Aruba Location Services solutions have been implemented in Workplaces, Airports, Stadiums, Museums, Hospitals, Education institutions, Hospitality, and many more
- Aruba Wired, Wireless, SD-Branch, RAP, and VIA solutions enable Organizations to rapidly adapt to changes brought around by Pandemic
- Aruba Meridian and technology partner solutions can provide detailed real-time guidance to employees in office





**STAY SAFE
STAY CONNECTED**



aruba

a Hewlett Packard
Enterprise company

Thank You



sriharsha.narasimhan@hpe.com



@sriharshaz



<https://www.linkedin.com/in/sriharsha-narasimhan/>