

# HPE Aruba Networking Air Pass cellular roaming feature

Deliver the 5G experience today with Wi-Fi calling and Passpoint®

## Key features

- Enable 5G experiences with Wi-Fi 6/6E
- Automatically enable cellular devices to connect to HPE Aruba Networking WLAN
- Provides role-based control and onboarding using enterprise security
- Powered by Wi-Fi CERTIFIED Passpoint®, enabled in the vast majority of mobile devices
- Works with HPE Aruba Networking Air Slice for carrier-grade application Quality of Service
- Uses WPA2/3-Enterprise wireless security
- Compatible with existing HPE Aruba Networking Wi-Fi 4/5 WLANs to enable cellular roaming today without hardware upgrades

HPE Aruba Networking Air Pass is the industry's first seamless cellular roaming solution designed to unify enterprise and mobile network experiences. Delivered by wireless infrastructure and managed via HPE Aruba Networking Central, HPE Aruba Networking Air Pass uses pre-negotiated agreements with mobile network operators (MNOs) that support the widely approved Wi-Fi CERTIFIED Passpoint standard to leverage cellular SIM credentials for automated Wi-Fi roaming—no captive portals, usernames, or passwords are required. Currently, HPE Aruba Networking Air Pass is available to US customers only.

## Evolution of indoor cellular coverage

Transitioning from outdoor cellular networks to indoor wireless coverage has become challenging due to the prevalence of low-emission glass, energy-efficient construction materials, as well as evolving building codes. This leads to inconsistent experiences for mobile users who may lose signal when they roam in and out of corporate offices, hotels, conference centers, and other indoor locations.

These problems are compounded with 5G that operates at higher frequencies and does not penetrate indoors as far as 4G or 3G. For decades, Distributed Antenna Systems (DAS) have been used in large public venues like airports, hospitals, stadiums and shopping malls. More recently, indoor femtocell networks are being deployed by individual MNOs but unlike DAS a separate layer of equipment is required for each MNO. DAS and small cells are complex and inefficient for facilities smaller than 500,000 ft<sup>2</sup> (50,000 m<sup>2</sup>) which constitutes the bulk of commercial properties worldwide. As a result, over 162 MNOs in nearly 80 countries have embraced Wi-Fi Calling. With 5G

including support for integrating Wi-Fi 6 as a Radio Access Network (RAN), enterprises no longer need to choose any unprofitable solutions. Wireless LANs instantly become the popular and most economical choice to onramp indoor cellular devices.

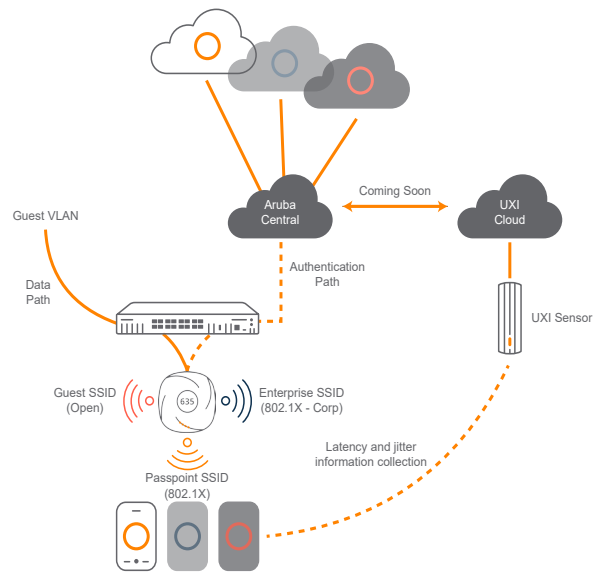
With the HPE Aruba Networking Air Pass roaming feature, Wi-Fi 6 and 6E become important in accelerating enterprise 5G initiatives—automating mobile onboarding and roaming with the added benefit of enterprise-grade security.

The Air Pass cellular roaming feature delivers the 5G experience today with Wi-Fi Calling and Passpoint® network access control so that public and private resources remain secure and separate. Mobile subscribers (as well as Passpoint capable IoT devices) are then able to roam seamlessly between cellular and Wi-Fi networks, while enterprise IT maintains policy compliance.

Air Pass marks an end to indoor cellular coverage gaps and insecure open guest networks. The hassle of manually hunting for Wi-Fi networks and jumping through the hoops of captive portals is eliminated, thereby marking the beginning of a new relationship between private enterprises and MNOs.

## Product components

HPE Aruba Networking Air Pass is delivered by HPE Aruba Networking access points and runs within HPE Aruba Networking Central, powered by HPE's GreenLake Cloud with secure links to major global MNOs that support Passpoint with SIM credentials on their subscriber devices. It also requires HPE Aruba Networking User Experience Insight (UXI) to provide monitoring information for participating MNOs.



### HPE Aruba Networking Central for unified network management

HPE Aruba Networking Central is a cloud-based unified network operations, assurance, and security platform that simplifies the deployment, management, and orchestration of wireless, wired, and SD-WAN environments. HPE Aruba Networking Air Pass is available to Central customers, and it uses services from supported MNOs and on-premises access points to deliver transparent connectivity to mobile users.

HPE Aruba Networking Central is licensed on a per-AP or per-switch basis, and subscriptions are available in two tiers—Foundational and Advanced. More details on supported Air Pass features and ordering information can be found in Tables 1 and 2 below.

For additional information on HPE Aruba Networking Central, [please refer to the data sheet](#)

### HPE Aruba Networking Access Points

Ideal for enterprises of any size, HPE Aruba Networking APs deliver secure and reliable connectivity to mobile users, IoT devices, and latency-sensitive applications—even in crowded areas.

These APs are in a class of their own with a purpose-built design and unmatched technical capabilities that bring 5G experiences to life in the most demanding enterprise environments.

HPE Aruba Networking Air Pass is

supported on HPE Aruba Networking AP-6XX, AP-5XX, AP-3XX and AP-2XX series. 5G experience is enabled with HPE Aruba Networking Wi-Fi 6/6E APs (AP-5XX and AP-6XX). Please refer to the respective [wireless ordering guides](#) for more details.

### HPE Aruba Networking User Experience Insight (UXI)

In some scenarios, MNOs that have partnered with HPE Aruba Networking require ongoing quality monitoring from at least one location in each facility served by HPE Aruba Networking Air Pass. Ideal for monitoring the latency and jitter between your location and the MNO providers, UXI ensures that only the best experience is offered to users.

For additional information on HPE Aruba Networking UXI, [please refer to the data sheet](#).

### Deployment options

HPE Aruba Networking Air Pass can be deployed using cloud versions of HPE Aruba Networking Central for service management and orchestration.

Cloud-based deployments support HPE Aruba Networking access points that run Instant OS (version 8.x or later), as well as the HPE Aruba Networking Operating System 10.

### Give guests a better Wi-Fi experience

HPE Aruba Networking Air Pass is mainly useful for schools, universities, hotels, retail

stores, hospitals, and other indoor venues that provide public Wi-Fi hotspots—giving guests an uninterrupted Wi-Fi experience and maintaining SLA-grade assurance with the benefits of HPE Aruba Networking AI and RF enhancements.

### Increase the ROI for enterprise wireless

IoT and Unified Communication and Collaboration (UCC) services are accelerating cloud adoption due to which the role of WLAN has become increasingly mission-critical in the workplace. With HPE Aruba Networking Air Pass, WLAN can now deliver 5G experiences for mobile subscribers while increasing business value.

### Carrier-grade application assurance

In the ~30 billion ft<sup>2</sup> of real estate served by HPE Aruba Networking Air Pass-ready infrastructure worldwide, mobile users and IoT devices are increasingly accessing cloud services and other bandwidth-intensive applications like AR/VR, video conferencing, and gaming. To address this burgeoning demand for connectivity, Air Pass is optimized for HPE Aruba Networking Wi-Fi 6/6E and delivers enhancements like HPE Aruba Networking Air Slice for SLA-grade application assurance.

By dynamically allocating radio resources such as time, frequency, and spatial streams, Air Slice enables connectivity for specified users, devices, and applications. See the [HPE Aruba Networking Air Slice technical brief](#) for more information.



**Table 1: HPE Aruba Networking Air Pass feature information for Cloud-based deployments**

Air Pass feature	AP foundational license	AP advanced license <sup>1</sup>
<b>Domestic mobile operator support</b>	Choose any one	All participating providers
<b>Domestic mobile operator cash-back</b>	No	No
<b>International cellular roaming</b>	No	No
<b>Radius accounting</b>	Enabled	Enabled
<b>Policy configuration</b>	Yes <sup>2</sup>	Yes <sup>2</sup>
<b>Number of authentications</b>	Unlimited <sup>3</sup>	Unlimited <sup>3</sup>

<sup>1</sup> For additional information on features offered in AP advanced licenses beyond HPE Aruba Networking Air Pass, please refer to the [overview](#)

<sup>2</sup> Policy controls vary based on the configurations

<sup>3</sup> Could be limited by mobile operator or can change to limit number of Authentications in future

**Table 2: Ordering information for HPE Aruba Networking Central AP subscription SKUs<sup>4</sup>**

Foundational AP subscription SKUs <sup>4</sup>	
<b>Q9Y58AAE</b>	HPE Aruba Networking Central AP Foundational 1-Year Subscription E-STU
<b>Q9Y59AAE</b>	HPE Aruba Networking Central AP Foundational 3-Year Subscription E-STU
<b>Q9Y60AAE</b>	HPE Aruba Networking Central AP Foundational 5-Year Subscription E-STU
<b>Q9Y61AAE</b>	HPE Aruba Networking Central AP Foundational 7-Year Subscription E-STU
<b>Q9Y62AAE</b>	HPE Aruba Networking Central AP Foundational 10-Year Subscription E-STU
Foundational AP subscription SKUs <sup>4</sup>	
<b>Q9Y63AAE</b>	HPE Aruba Networking Central AP Advanced 1-Year Subscription E-STU
<b>Q9Y64AAE</b>	HPE Aruba Networking Central AP Advanced 3-Year Subscription E-STU
<b>Q9Y65AAE</b>	HPE Aruba Networking Central AP Advanced 5-Year Subscription E-STU
<b>Q9Y66AAE</b>	HPE Aruba Networking Central AP Advanced 7-Year Subscription E-STU
<b>Q9Y67AAE</b>	HPE Aruba Networking Central AP Advanced 10-Year Subscription E-STU

<sup>4</sup> HPE Aruba Networking Central AP licenses running Instant OS supports Air Pass with 2XX, 3XX, 5XX, 6XX series APs. HPE Aruba Networking Central AP licenses running AOS10 supports Air Pass with 5XX, 6XX and select 3XX series APs

**Table 3: Ordering information for HPE Aruba Networking User Experience Insights (UXI) subscriptions**

Subscription SKUs	
<b>R4X00AAE</b>	HPE Aruba Networking 1-Year User Experience Insight LTE Subscription E-STU
<b>R4X01AAE</b>	HPE Aruba Networking 3-Year User Experience Insight LTE Subscription E-STU
<b>R4W97AAE</b>	HPE Aruba Networking 1-Year User Experience Insight Cloud Subscription E-STU
<b>R4W98AAE</b>	HPE Aruba Networking 3-Year User Experience Insight Cloud Subscription E-STU



**Table 4: Ordering information for HPE Aruba Networking User Experience Insights (UXI) sensors**

Subscription SKUs	
<b>R3R67A</b>	HPE Aruba Networking User Experience Insight G5 sensor (Ethernet + Wi-Fi AC)
<b>R3S69A</b>	HPE Aruba Networking User Experience Insight G5C sensor (Ethernet + Wi-Fi AC + Cellular)
<b>R7H75A</b>	HPE Aruba Networking User Experience Insight G6 sensor (Ethernet + Wi-Fi AX)
<b>R7H76A</b>	HPE Aruba Networking User Experience Insight G6C sensor (Ethernet + Wi-Fi AX + Cellular)

## HPE Aruba Networking Air Pass ordering terms and conditions

Air Pass requires at least one UXI sensor per venue to collect anonymized network quality information required by participating mobile network provider(s).

Air Pass availability is subject to geographic limitations and carrier approvals. Carriers reserve the right to terminate approval at their discretion. Any use of Air Pass functionality beyond approved locations or done without accurate information is grounds for HPE Aruba Networking or the mobile network operator to terminate the service.

Individual carriers that have partnered with HPE Aruba Networking may require specific bandwidth, latency, and jitter information collected via HPE Aruba Networking User Experience Insight (UXI) sensors. For this purpose, unrestricted access to Wi-Fi calling feature is necessary.

Air Pass functionality is offered without service level agreement (SLA) or service level objective (SLO).

Except for #6 below, Air Pass feature is not

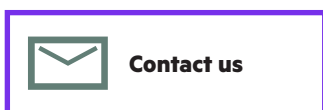
governed by the HPE Aruba Networking Central Terms and Conditions, but by the following terms—which shall be deemed accepted if you use the HPE Aruba Networking Air Pass feature (“Agreement”):

1. HPE Aruba Networking hereby grants you a limited, revocable, nonexclusive, non-transferable, non-sublicensable and royalty free license to use the Air Pass feature, until terminated.
2. In the case of material breach of the Agreement or any technical requirement made available in a Data Sheet or similar document by HPE Aruba Networking either party can terminate it immediately upon written notice. Further, either party may terminate this Agreement without cause on 180 days prior written notice. Upon termination of this Agreement the Air Pass feature will stop running.
3. HPE Aruba Networking retains all rights to Air Pass not specifically granted herein. HPE Aruba Networking and its licensors own Air Pass and all copyright and other intellectual property rights therein, and this Agreement shall not transfer to you title to any proprietary

or intellectual property rights in or to Air Pass, or any updates or upgrades thereto or derivative works thereof.

4. You accept the Air Pass “as is”, with any errors or defects. HPE Aruba Networking makes no express or implied warranty of any kind with respect to Air Pass, and to the extent permitted by law, HPE Aruba Networking disclaims all other warranties. HPE Aruba Networking does not warrant that the operation of solution will be uninterrupted or error-free, or that solution will operate in hardware and software combinations other than as authorized by HPE Aruba Networking in the applicable data sheet.
5. To the extent permitted by applicable laws, HPE Aruba Networking is not liable for any direct, indirect, special, or consequential damages or for lost revenues or profits, downtime costs, or loss or damage to data.
6. The following [HPE Aruba Networking Central Terms and Conditions](#) sections shall apply to this Agreement: 5, 8, 11 and 22.

**Make the right purchase decision.  
Contact our presales specialists.**



© Copyright 2023 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

All third-party marks are property of their respective owners.

DS\_hpeanwHPEArubaNetworkingAirPassCellularRoamingFeature\_OH\_111023 a00123599enw