

# HPE ARUBA NETWORKING PRIVATE 5G

Making it simpler for enterprises to  
deploy and manage private cellular



#### Key benefits

- Full-stack solution including everything needed for a private cellular network
- Enterprise simplicity through Zero Touch Provisioning and configuration wizards for fast and easy deployment
- Comprehensive visibility into subscribers, applications, performance and SLAs
- Mature and proven technology deployed by 500 enterprises and 25 service providers globally
- Integrated, turnkey option for simplified purchasing, deployment, and management

## Why private cellular?

Private cellular is approaching a tipping point, with adoption accelerating across a wide range of industries. Digitization, IoT, and AI are driving greater demand, while technology is making it easier for enterprises that lack cellular expertise.

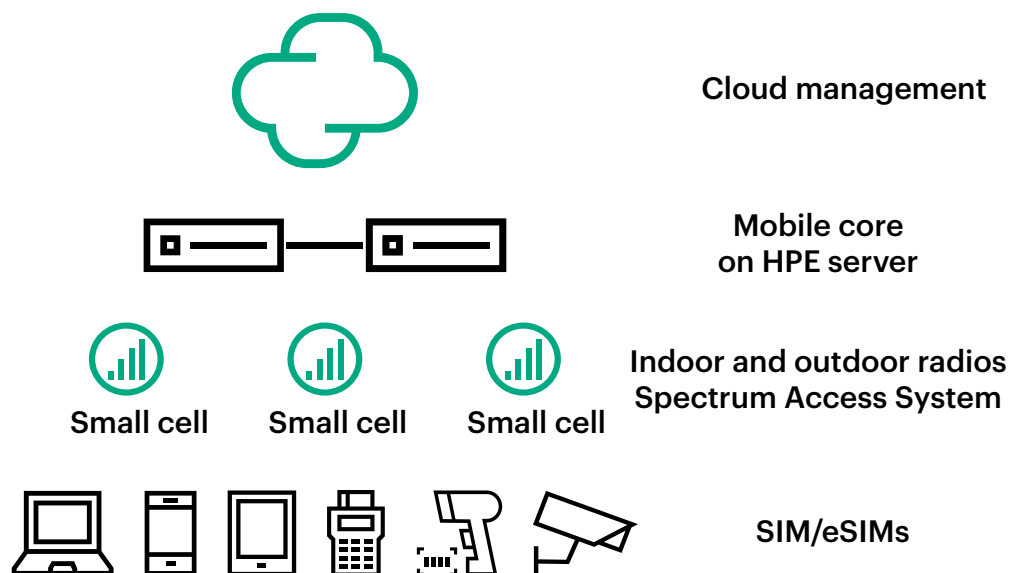
With private cellular networks at the enterprise edge, businesses can complement their Wi-Fi to gain the following:

- High-speed mobility for robotics and automated vehicles, indoors and outdoors
- Policy-driven performance, latency, and quality for critical communications and other strategic applications
- Wider-area coverage with the ability to transmit and receive over greater distances
- Less RF interference by using locally allocated spectrum
- Device-level control with Subscriber Identity Module (SIM)-based authentication

## Simplification is key

Despite compelling use cases for private cellular, enterprises have struggled to implement networks due to its complexity. Traditionally, private cellular networks have relied on technology components from up to 7 vendors, plus assistance from service providers knowledgeable in 3GPP to configure and manage the solution. Spectrum often needs to be acquired from mobile operators, hindering the purchasing processes and adding significant cost.

HPE Aruba Networking Private 5G masks the complexity inherent in private cellular network deployments. Our solution is based on leading mobile core technology and includes all the components needed for an end-to-end private cellular network—indoor/outdoor small cell radios, a 4G/5G mobile core, a hardware appliance, and SIM/eSIMs, all managed through a cloud-based dashboard that enables network admins to set up and manage their private cellular network without extensive training or deep cellular expertise. For U.S. markets, the offering also includes a Spectrum Access System (SAS) to enable use of shared spectrum in the 3.5 GHz band known as Citizen’s Broadband Radio Service (CBRS), thereby eliminating the need to acquire spectrum from mobile operators. Customers can acquire HPE Aruba Networking Private 5G as a fully integrated solution from HPE or opt for a more tailored approach to address specialized requirements.



**Figure 1.** Components of the HPE Aruba Networking Private 5G solution

HPE Aruba Networking Private 5G includes the following components:

- **HPE Aruba Networking Private 5G Management Dashboard** is a federated, multi-tenant management layer that has a similar look and feel as HPE Aruba Networking Central for ease of use. It includes zero touch provisioning and wizards for greater automation.
- **HPE Aruba Networking Private 5G Core** is the “brains” of the cellular network and includes mobility control, subscriber management, and policy enforcement functions deployed on a HPE ProLiant server. The software includes all 4G and 5G services so organizations can begin with 4G (often to support existing device types) and then migrate to 5G without needing to upgrade the software version. Our private cellular solution is built on award-winning 4G/5G core technology that has been deployed at more than 500 enterprises over more than 15 years.

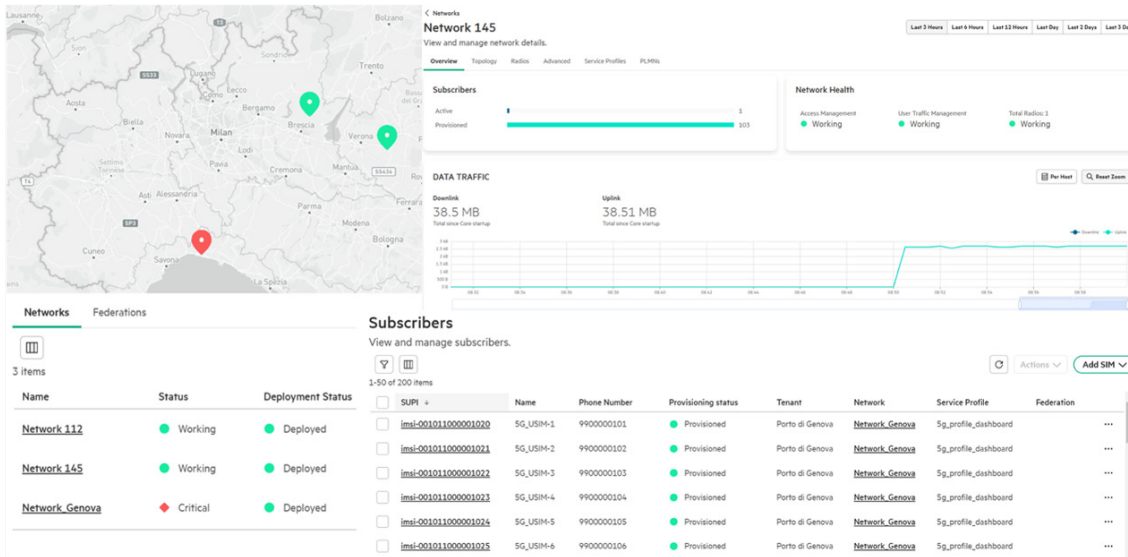


Figure 2. HPE Aruba Networking Private 5G Management DashboardSmall

— **HPE Aruba Networking Private 5G Small Cells** with indoor and outdoor options to support a variety of enterprise user endpoints and use cases. All small cells are backed by HPE Aruba Networking and managed using cloud-based management.



Figure 3. HPE Aruba Networking Small Cells. 4G options are available for enterprises in the US with 4G device ecosystems

- **HPE Aruba Networking Private 5G SIM/eSIMs** come in either a physical or virtual form factor and are sold in packs of 10 to simplify purchasing. They can be provisioned via CSV files, APIs, or manual updates using our cloud-based management interface.
- **Spectrum Access Service (SAS).** Private mobile networks can work with slices of public networks or shared spectrum. Our enterprise solution is designed to be used with shared or lightly licensed spectrum. This spectrum in the U.S. (known as CBRS) operates on band n48 and uses a Spectrum Access Service to protect incumbents. By using CBRS, enterprises can deploy a private cellular network without the additional costs and contractual requirements associated with carrier contracts (U.S. only).

## Why HPE?

HPE Aruba Networking Private 5G is built on proven mature technology developed by Athonet, a Hewlett Packard acquisition. With more than 500 enterprise and 25 service provider customers, we have a proven track record of success that dates back to the days of 3G.

Our solution offers the simplicity that enterprises require with a similar approach as Wi-Fi and a cloud management interface that masks 3GPP cellular complexity. In the future, HPE will continue to integrate configuration and management using HPE Aruba Networking Central as the common framework for shared services that span wired, Wi-Fi, and private cellular.

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