Overview

Shape the Future of QuickSpecs – Your Input Matters

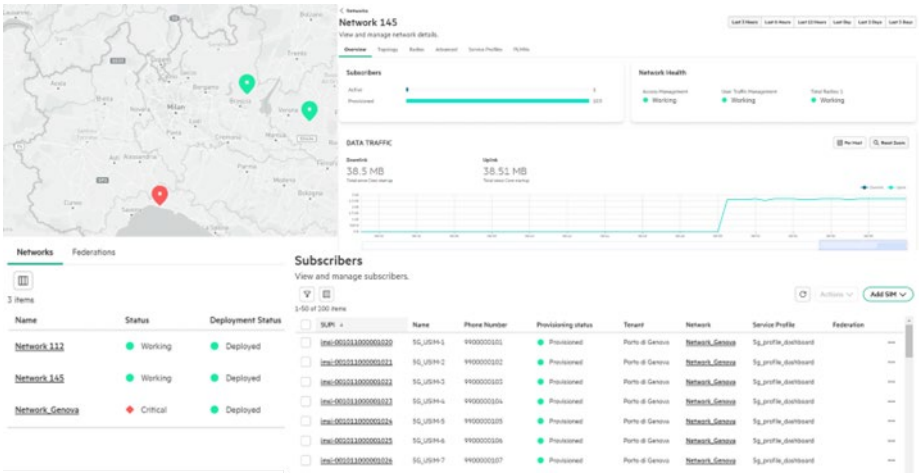
HPE Aruba Networking Private 5G Management Dashboard

HPE ANW P5G Management Dashboard is a private network management tool that offers a comprehensive solution for efficient and secure control over distributed HPE Aruba Networking Private 5G Core networks. HPE ANW P5G Management Dashboard allows organizations to manage their distributed private HPE Aruba Networking Private 5G Core and Voice Services networks through a centralized platform and provides a mean to simplify network operations.

HPE ANW P5G Management Dashboard is aimed at:

- Enterprises or organizations with one or multiple private networks
- Integrators that overview the private networks of multiple customers

Mobile Virtual Network Operators (MVNOs) leveraging the agility and simplicity of HPE Aruba Networking Private 5G Core and Voice Services



HPE ANW P5G Management Dashboard offers a range of capabilities designed to simplify and streamline network management. Users can leverage its features for subscriber and Universal Subscriber Identity Module (USIM) management, service monitoring, customer insights, and service configuration. Some of the key capabilities include:

- **Operating Multiple Private Networks:** Gain a comprehensive view of your network's health with various features, for example traffic monitoring, visualization of Key Performance Indicators (KPIs) and network functions and radio status.
    - **Provisioning USIMs**: Provision USIMs across multiple sites, simplifying the process of onboarding new users.

Standard Features

HPE ANW P5G Management Dashboard is designed to be user-friendly. It can be used by a wide range of users, such as network administrators or integrators. Its multi-tenant architecture enables organizations to provide controlled access to different users based on their roles by providing clear definition of responsibilities, data segregation, and confidentiality.

In summary, HPE ANW P5G Management Dashboard is:

- Purpose-built to simplify network operations
- Offering a wide range of capabilities
- Adaptable in terms of deployment
- Accessible from anywhere
- User-friendly

HPE ANW P5G Management Dashboard contains the following logical modules that represent functional areas:

- Portal module, responsible for:
  - Multitenancy
  - Authentication
  - Authorization with role-based access control
  - Enhanced look and feel
  - Branding management (Platform Administrator only)
- Monitoring module, responsible for:
  - Core KPIs
  - Service KPIs
  - Radio related KPIs
  - Network topology and status
  - Radios status
  - Self-monitoring (external module, not integrated in the GUI)
  - Live USIM information
- Provisioning module, responsible for:
  - 4G and 5G single- and multisite provisioning
  - Synchronization with the local subscriber database
  - Provisioning of USIMs on multiple networks
  - Configuration of PLMNs and service profiles on multiple networks
  - Bandwidth management through custom traffic types in the service profiles
- Traffic Reporting module, responsible for:
  - Traffic reporting using CDRs

Some of the functionalities provided by the modules, or in some cases an entire module (such as Traffic Reporting), can be activated or deactivated depending on the customer contract. The active modules and functionalities can be changed at any time based on the specific commercial agreement reached with HPE ANW P5G Management Dashboard customers.

Refer to your HPE sales representative for more information about your activated feature set.

User Roles and Multi Tenancy

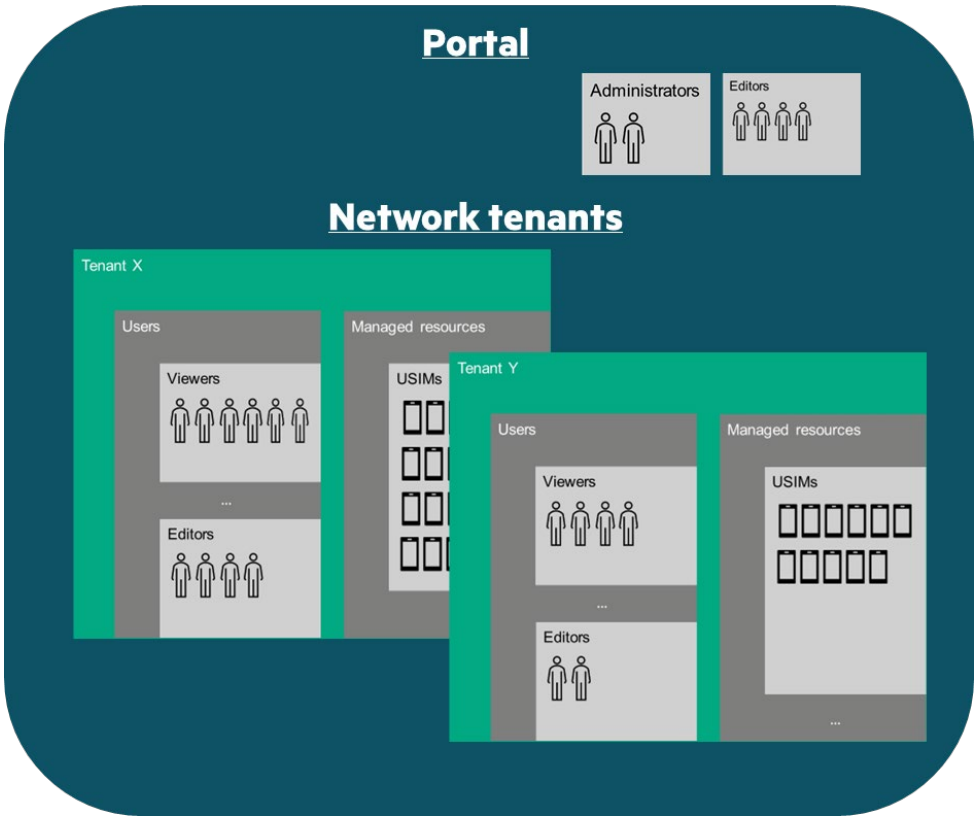
A single HPE ANW P5G Management Dashboard instance efficiently serves multiple distinct user groups and resources, made possible by multi-tenancy. This approach ensures the effective management of services through the segregation of user accounts and the delegation of tasks and responsibilities among them.

A tenant is a set of users and resources. Users can be created only inside a tenant account. The number of users that can be created is not restricted, and you can associate different roles with the different users. Tenancy has the following levels:

Standard Features

Portal Tenant: The tenant with the highest level of access and ability to do all the operations allowed by HPE ANW P5G Management Dashboard, including the administration of other tenants. Note: The portal tenant does not own networks.
Network Tenants: Tenants that administer private networks. They can see only their own networks and resources and are not aware of the existence of other tenants.

A user is someone who has credentials to log on to the system. Users have roles that grant them the right to perform operations. HPE ANW P5G Management Dashboard supports local users and Lightweight Directory Access Protocol (LDAP) user authentication.



Tenant Hierarchy

Provisioning and SIM Lifecycle Management

HPE ANW P5G Management Dashboard serves as a comprehensive enterprise tool for managing the HPE Aruba Networking Private 5G Core Network. It offers services for provisioning SIMs and managing their lifecycle. It also enables users to configure network information such as PLMS and Service Profiles that are related to the provisioning process.

The main features of the HPE ANW P5G Management Dashboard provisioning and configuration modules are:

- Managing SIMs
- Configuring service profiles and PLMNs
- Replicating USIMs, service profiles, and PLMNs across multiple networks

HPE ANW P5G Management Dashboard handles the following subscriber information:

- SIM general data (SUPI, MSISDN)
- Tenant and network or federation association
- Secret keys

Standard Features

- Association to service profile and network

The HPE ANW P5G Management Dashboard Provisioning module lets you create SIMs and perform all necessary actions to provision them into private networks. It also handles modifications to their status, such as provisioned or deprovisioned. SIM information can also be improved by adding metadata to simplify SIM management and by allowing filtering based on customer-specific information.

SIMs are displayed in a table. Depending on the status of the SIM, certain actions can be performed on a single SIM or in bulk. The system keeps track of all operations, thus allowing users to monitor their progress.

Networks and Service Management

HPE ANW P5G Management Dashboard allows users to configure their network by defining critical components, such as Public Land Mobile Networks (PLMNs) and Service Profiles, associated to predefined network slices in the core. The network configurations, including PLMN and Service Profile settings, can be prepared within HPE ANW P5G Management Dashboard and seamlessly propagated to the actual network.

HPE ANW P5G Management Dashboard includes support for voice services, enabled through the integration of the HPE Aruba Networking Private 5G Voice Services (IMS) product.

Furthermore, HPE ANW P5G Management Dashboard offers robust data segregation capabilities. For example, USIMs registered for specific tenants remain exclusively visible to those tenants, and provisioned networks are isolated and are only accessible to their associated tenant. This strict data segregation enhances security and confidentiality within the network management environment.

Monitoring

The HPE ANW P5G Management Dashboard Monitoring module is a tool that enables centralized monitoring of multiple networks. Its main functionalities include:

- Providing a comprehensive overview of the network status.
- Status monitoring for network functions and topology of the managed network.
- Status monitoring of the radios through Bore KPIs, where available.
- Monitoring and storing 4G, 5G, and IMS KPIs related to the managed network.
- First level of troubleshooting by visualizing network representation and highlighting errors.

HPE ANW P5G Management Dashboard Monitoring is designed to benefit the following target customers:

Small and medium-sized enterprises that want to monitor the status of their private networks and request support if needed.

Integrators and operators for private network services who want to monitor the status of multiple networks.

By providing near real-time network status updates and KPIs, HPE ANW P5G Management Dashboard Monitoring enables the users to quickly identify and address any issues or inefficiencies within their networks. This can help improve network performance and efficiency, resulting in better overall network operations.

Traffic Reporting

HPE ANW P5G Management Dashboard includes an optional Traffic analysis module that relies on Charging Data Records (CDRs) produced by the managed HPE Aruba Networking Private 5G Core Networks. Upon customer request, it can also handle CDRs issued by third-party mobile network operators in an MVNO context. For more information about MNO/MVNO integration possibilities, contact your HPE sales representative.

HPE Services

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Standard Features

Consulting Services

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HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

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- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

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HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.
https://www.hpe.com/services/techcare

Standard Features

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:
https://www.hpe.com/services/lifecycle

For a list of the most frequently purchased services using service credits, see the **HPE Service Credits Menu**

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.
https://www.hpe.com/services/training

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at **https://ssc.hpe.com/portal/site/ssc/**

Standard Features

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.
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- Save on TCO, align costs to business
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- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"
https://www.hpe.com/us/en/contact-hpe.html

For more information **http://www.hpe.com/services**

Configuration Information

Licensing Options

HPE Aruba Networking Private 5G Management Dashboard can be offered as a perpetual licenses with separate yearly support fees or as a subscription with one, three or five years duration.

Perpetual licensing

Up to version 1.24.3

Dimensioning the baselines and the capacity licenses depends on the management Dashboard modules in use:

- Monitoring modules is dimensioned on the number of sites (equivalent to the number of core baselines: one site for each core, twice the number in case of geo redundancy). Node extensions are not counted.
- Provisioning module requires a baseline and the capacity license is dimensioned according to the customer desired number of Provisioned Devices filling in the capacity bands (first 300, from 301 to 5000, from 5001 to 10000, from 10001 to 25000, more than 25000).

All-in-one license is deprecated.
Services are quoted separately.

From version 1.25.1

Management Dashboard perpetual licenses include monitoring and provisioning modules.
Core and Voice Services are counted separately based on the managed instances, according to the following rules:

- No High Availability – counts one instance per Core and/or one instance for Voice Services
- Local High Availability – counts two instances per Core and/or two instances for Voice Services
- Geo Redundancy – counts four instances per Core and/or four instances for Voice Services
- Core node extensions – do not require extra Management Dashboard licenses

Traffic Reporting module is sold separately as an optional item, it is dimensioned by counting the managed Core instances following the rule above.
Services are quoted separately.

Subscription licensing

Up to version 1.24.3

Management Dashboard subscription includes all the available modules and it is based on duration (one year or three years).
It is included in the Core subscription when Dashboard is used to manage a single Core (excluding local high-availability and Geo-redundancy that are considered multiple cores).
In case the Management Dashboard is used to manage more Cores, depending on the number of those, it is necessary to order:

- A subscription for the first 10 cores.
- Additional subscriptions for 10-cores increment (as many as needed).

There is no specific license for Voice Services.

From version 1.25.1

Management Dashboard subscriptions include monitoring and provisioning modules and they are based on duration (one, three or five years).
Dimensioning follows the same dimensioning principles as the perpetual license.
Core and Voice Services are counted separately based on the managed instances, according to the following rules:

- No High Availability – counts one instance per Core and/or one instance for Voice Services
- Local High Availability – counts two instances per Core and/or two instances for Voice Services
- Geo Redundancy – counts four instances per Core and/or four instances for Voice Services
- Core node extensions – do not require extra Management Dashboard licenses

Traffic Reporting module is sold separately as an optional item, it is based on duration (one, three or five years) and dimensioned counting the managed Core instances following the rule above.

Customers can purchase and use HPE Aruba Networking Private 5G Management Dashboard with existing qualifying Hewlett Packard Enterprise servers they may already own, or purchase and use with a new qualifying server purchase through Hewlett Packard Enterprise or through an authorized Hewlett Packard Enterprise Partner.

Configuration Information

For evaluation purposes, HPE Aruba Networking Private 5G Management Dashboard solution is available as a 12-month subscription.

Description	SKU
E-LTU	
HPE Aruba Networking Private 5G Management Dashboard Provisioning E-LTU	R7X36AAE
HPE Aruba Networking Private 5G Management Dashboard Monitoring E-LTU	R7X37AAE
HPE Aruba Networking Private 5G Management Dashboard All E-LTU	R7X38AAE
HPE Aruba Networking Private 5G Management Dashboard 300 Prov Devices E-LTU	R7X39AAE
HPE Aruba Networking Private 5G Management Dashboard 5K Prov Devices E-LTU	R7X40AAE
HPE Aruba Networking Private 5G Management Dashboard 10K Prov Devices E-LTU	R7X41AAE
HPE Aruba Networking Private 5G Management Dashboard 25K Prov Devices E-LTU	R7X42AAE
HPE Aruba Networking Private 5G Management Dashboard 25K+ Prov Dev E-LTU	R7X43AAE
HPE Aruba Networking Private 5G Management Dashboard 1Y evaluation E-LTU	R7X72AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) per Add Voice Services E-LTU	R7Z09AAE
e-Media	
HPE Aruba Networking Private 5G Management Dashboard 23.1 E-Media	R7X56AAE
HPE Aruba Networking Private 5G Management Dashboard 23.2 E-Media	R7X57AAE
HPE Aruba Networking Private 5G Management Dashboard 23.3 E-Media	R7X76AAE
HPE Aruba Networking Private 5G Management Dashboard 1.24.1 E-Media	R7Y21AAE
HPE Aruba Networking Private 5G Management Dashboard 1.24.2 e-Media	R7Y78AAE
Premium E-LTU	
HPE Aruba Networking Private 5G Management Dashboard 10 Core 1yr Prem E-LTU	R7Y15AAE
HPE Aruba Networking Private 5G Management Dashboard 10 +10 1yr Prem E-LTU	R7Y16AAE
HPE Aruba Networking Private 5G Management Dashboard 10 Core 3yr Prem E-LTU	R7Y68AAE
HPE Aruba Networking Private 5G Management Dashboard 10 10 3yr Prem E-LTU	R7Y69AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Sgl Core 1yr 24x7 Prem E-LTU	R7Z39AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Add Core 1yr 24x7 Prem E-LTU	R7Z40AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Single VS 1yr 24x7 Prem E-LTU	R7Z41AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Add VS 1yr 24x7 Prem E-LTU	R7Z42AAE
HPE Aruba Networking Private 5G Management Dashboard Traffic Reporting per Core 1yr 24x7 Prem E-LTU	R7Z43AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Sgl Core 3yr 24x7 Prem E-LTU	R7Z72AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Add Core 3yr 24x7 Prem E-LTU	R7Z73AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Single VS 3yr 24x7 Prem E-LTU	R7Z74AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Add VS 3yr 24x7 Prem E-LTU	R7Z75AAE
HPE Aruba Networking Private 5G Management Dashboard Traffic Reporting per Core 3yr 24x7 Prem E-LTU	R7Z76AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Sgl Core 5yr 24x7 Prem E-LTU	R8A05AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Add Core 5yr 24x7 Prem E-LTU	R8A06AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Single VS 5yr 24x7 Prem E-LTU	R8A07AAE
HPE ANW Private 5G Management Dashboard All (Provisioning/Monitoring) Add VS 5yr 24x7 Prem E-LTU	R8A08AAE
HPE Aruba Networking Private 5G Management Dashboard Traffic Reporting per Core 5yr 24x7 Prem E-LTU	R8A09AAE

Technical Specifications

Resource requirements

Provisioning and monitoring

The deployment scenarios can change according to the customers needs for improved performance and eliminating redundancies. The deployment choices and the hardware used for hosting HPE ANW P5G Management Dashboard affect the overall performance and they must be validated for any new setup. The minimum requirements for a single instance of the HPE ANW P5G Management Dashboard product installed on a single VM include a base of:

- 16 CPUs
- 32 GB RAM
- 200 GB SSD storage

Currently the HPE Aruba Networking Private 5G Core and HPE Aruba Networking Private 5G Voice Services send all their KPIs to HPE ANW P5G Management Dashboard, so the main dimensioning factors for HPE ANW P5G Management Dashboard, in addition to the base VM sizing mentioned before, are:

- The number of monitored HPE Aruba Networking Private 5G Core and HPE Aruba Networking Private 5G Voice Services VMs
- The retention period for HPE Aruba Networking Private 5G Core KPIs

For example, for each monitored HPE Aruba Networking Private 5G Core and HPE Aruba Networking Private 5G Voice Services VM with a three-days KPI retention period, the following must be added:

- 0.3 vCPU
- 750 MB RAM
- 4 GB SSD storage

Then, for each extra day of KPI retention, add the following extra SSD storage:

- 1 GB and an additional 400 MB for each monitored VM

If you configure the HPE Aruba Networking Private 5G Core and HPE Aruba Networking Private 5G Voice Services send only the useful part of their KPIs to HPE ANW P5G Management Dashboard, for each monitored HPE Aruba Networking Private 5G Core and HPE Aruba Networking Private 5G Voice Services VM with a three-days KPI retention period, the following must be added instead:

- vCPU
- 40 MB RAM
- 10 MB SSD storage

Then, for each extra day of KPI retention, add the following extra SSD storage:

- 50 MB and an additional 10 MB for each monitored VM

Notes: To reduce the sizing requirements listed previously, you can filter the KPIs sent by HPE Aruba Networking Private 5G Core and HPE Aruba Networking Private 5G Voice Services. For more information, contact your HPE representative.
The HPE ANW P5G Management Dashboard KPI database requires parameterization according to the dimensioning parameters listed in this section. For more information about these parameters, see the HPE Aruba Networking Private 5G Management Dashboard 1.24.2.0 Installation Guide.

Network bandwidth

The real-time bandwidth usage and consumption during runtime is approximately 250 KB/s for each HPE Aruba Networking Private 5G Core or HPE Aruba Networking Private 5G Voice Services VM. This bandwidth is needed to store in the HPE ANW P5G Management Dashboard database the KPI data that is collected on the HPE Aruba Networking Private 5G Core and HPE Aruba Networking Private 5G Voice Services VMs with Prometheus.

Summary of Changes

Date	Version History	Action	Description of Change
28-Jul-2025	**Version 7**	Changed	Update survey link.
05-May-2025	**Version 6**	Changed	Overview, Standard Features, Licensing Options, Configuration Information and Technical Specifications sections were updated.
01-Oct-2024	**Version 5**	Changed	Series name was updated.
06-May-2024	**Version 4**	Changed	Overview, Standard Features and Technical Specifications sections were updated.
22-Jan-2024	**Version 3**	Changed	Removed SKU table in Configuration Information section
18-Dec-2023	**Version 2**	Changed	HPE Services Rebranding
05-Sep-2023	**Version 1**	New	New QuickSpecs

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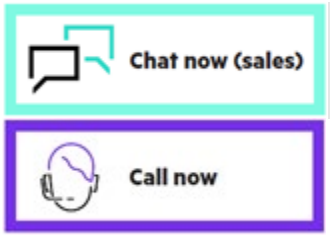

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