

Spectrum-hAWKspid 5G Complete 5G Core for SA and NSA Networks

100 Gbps Aggregated Throughput

3GPP Rel 16 Compliant

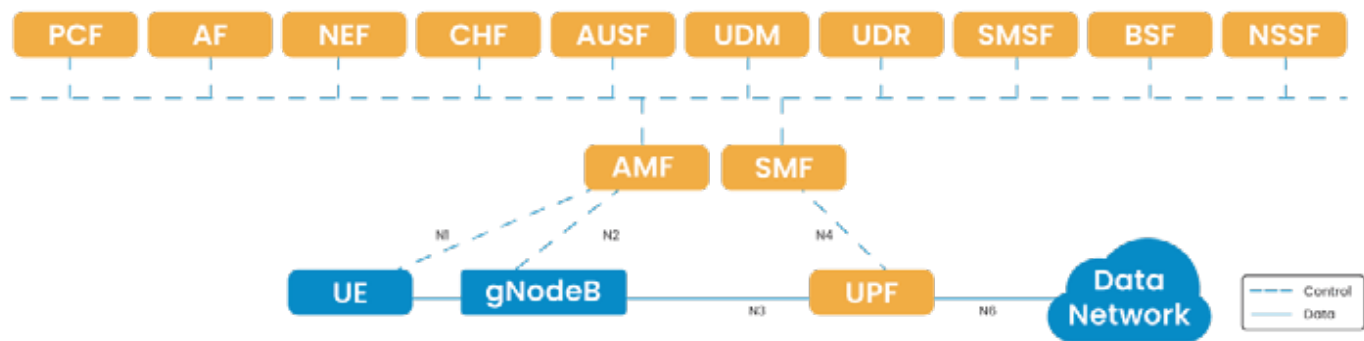
100K UE Support

Slicing Support/QoS Support

Cloud Native 5G Core that runs on any public, private or hybrid cloud

Overview

Spectrum's hAWKspid 5G Core is developed from the ground up using Service-Based Architecture. It helps create highly scalable networks that can run on-premise or on any cloud environment – public, private, or hybrid. 3GPP-Rel 15 compliant, with Rel 16 in the roadmap, it is built using microservices methodologies and has a high-performance User Plane Function. Fully virtualized, containerized, and optimized, our 5G SA core network is ideal for public deployments and building innovative and scalable Private 5G networks

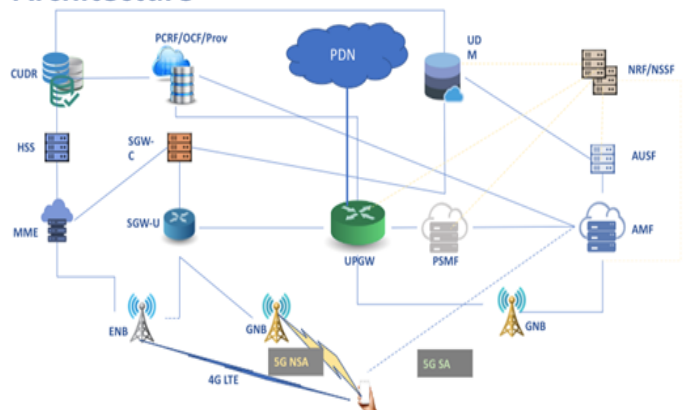


Spectrum's hAWKspid core completely supports Network Slicing as defined in 3GPP TS 23.501. The Software is ready with 3GPP release 16, supporting MNOs which enables us to provide a communication-enabling platform suitable for a wide range of industries (“verticals”) also such as e.g. transportation (autonomous driving V2X, Railways, Maritime), automated factories, healthcare, public safety and many more, with enhancements to Ultra-Reliable Low Latency Communications (URLLC), Network Slicing, Edge Computing, Cellular IoT (Internet of Things), Non-Public Networks, Positioning Services and LAN-type services.

Multi Segment offerings for MNO/MVNOs and Private 5G for Enterprises

- Access & Mobility Function (AMF)
- Session Management Function (SMF)
- User Plane Function/Packet Gateway (UPG)
- Network Relation Function (NRF)
- Authentication Server Function (AUSF)
- Unified Data Management (UDM)
- Policy Control Function (PCF)

Network Architecture



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Multi-segment offering	Built for multiple use cases ranging from enterprise networks to public deployments.
Subscriber Data Management	Enables operators to secure their investments by providing a unified platform to store and manage subscriber data.
Policy Control	Allows operators to secure investments by providing a unified platform to store and manage subscriber data.
Network Slicing	Enables independent scalability and flexible deployments & configuration of the network as per the needs of the different services.
Mobility	Easily predict mobility and make operations more efficient, valuable, and agile with proactive decisions.
Quality of Service	Ensure quality of service (e.g. reliability and target delay) by mapping packets to appropriate QoS Flows.
Roaming	An essential tool for operators, this feature ensures that the subscriber can have the best possible roaming experience.
Edge	Supports access to low-latency services hosted in local data centers.
Cloud-native Functions	Improve the scalability and efficient creation and consumption of network resources.
KPI Monitoring	Measure how effectively the 5G Core network is serving the user.
Network Exposure	Enables event exposure for monitoring, provisioning, and policy control. It also allows Northbound APIs exposure for Application Function control of 5G Core.
Management	The 5G Core components are deployed in containers as N+k redundant systems, which is fully orchestrated by Kubernetes.
Virtual Network Functions (VNF)	Supports the virtualization of network functions, increasing network scalability & agility and eliminating the need for expensive purpose-built hardware.
Interoperable	Interoperates with the best-in-class third-party gNodeB vendors and Qualcomm-powered UEs.

On-Premises

Can be deployed on your company's premises.

Public/Private/Hybrid Cloud

Complete containerization of our core while leveraging Kubernetes Orchestration enables you to deploy and dynamically scale the core on any cloud infrastructure.

Hosted Solution

Enabled on AWS (Amazon Web Services) platform, our SaaS-based solution allows the usage of the core by offering convenient and flexible subscription plans.

