

## Nokia Multi-Access Gateway-c Appliance

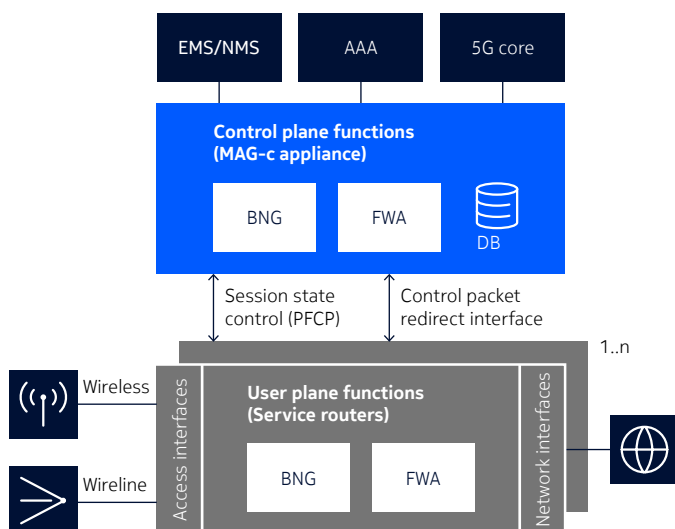
Release 24

The Nokia Multi-Access Gateway control (MAG-c) Appliance packages all hardware and control plane software needed for disaggregated gateway deployments with Control User Plane Separation (CUPS).

The MAG-c Appliance accelerates the introduction of Nokia's industry-leading CUPS solution by providing a prepackaged and centralized control plane solution to interface with the distributed user plane functions on Nokia service routers. It can be deployed as control plane for disaggregated Broadband Network Gateways, Fixed-Wireless Access Gateways, or as a common control plane for a combination of both.

The MAG-c appliance enables high-performance and versatile subscriber management, while simplifying operational management tasks by offering a single touchpoint with the broadband network.

**Figure 1: Multi-access Gateway with Control User Plane Separation**



### Features

- Pre-packaged control plane solution for disaggregated gateway deployments.
- Supports Broadband Forum specification TR-459 for a disaggregated BNG with CUPS.
- Fully redundant system configuration.
- Advanced system management capabilities.
- Common CLI and configuration options for MAG-c systems (VNF and appliance).

### Benefits

- Minimal overhead of operating and managing virtualized control plane functions.
- Rapid service introduction, no need to configure or manage virtual servers.
- Self-contained to reduce deployment risks.
- Flexible deployment options.
- Global support services.



## Technical specifications

### Dimensions

- Depth: 75.31cm (29.65 in)
- Width: 43.36cm (17 in)
- Height: 4.29cm (1.69 in)

### Operating environment

- Operating temperature: 10°C to 35°C (50°F to 95°F)
- Non-operating temperature: -30°C to 60°C (-22°F to 140°F)
- Operating relative humidity: 8% to 90%
- Non-operating relative humidity: 5% to 95%
- Specifications are at sea level. Refer to HPE DL360 Gen11 servers for further information

### Power supply

- AC: 800 W AC, redundant (100-240 VAC, 50/60 Hz, AC/HVDC support)
- DC: 1600 W, redundant (-40/-72 V)

### Hardware

- HPE ProLiant DL360 Gen11 1U server
- Processor: 2 x Intel Xeon Gold 6438N
- Memory: 512 GB RAM
- Networking: 2 x NVIDIA MCX623106AS 100Gb 2-port QSFP56
- Storage: 2 x 960GB SSD

- Front I/O:
  - 1 iLO service port
  - 1 USB 3.2 Gen 1 port
- Rear I/O:
  - 2 USB 3.2 Gen 1 ports
  - 1 VGA port
  - 4 x 100GE QSFP28
  - 2 x 100GE QSFP56 required for server-to-server interconnection links
  - 2 x 100GE QSFP56 available for uplinks from each server (configurable as 25/100 Gb/s)

### System configuration

- 2 x HPE DL360 1U rackmount servers
- Direct Attach Cables for interconnection
- Software bundle (refer to section on software for further details)

### Software

- Red Hat Enterprise Linux (RHEL) OS
- Nokia MAG-c appliance management software
- Nokia MAG-c application software

#### Software licenses included

- RHEL OS license
- Nokia MAG-c appliance management software
- MAG-c subscriber and feature licenses must be purchased separately from hardware and software bundle for appliance.

### About Nokia

At Nokia, we create technology that helps the world act together.

As a B2B technology innovation leader, we are pioneering networks that sense, think and act by leveraging our work across mobile, fixed and cloud networks. In addition, we create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs.

With truly open architectures that seamlessly integrate into any ecosystem, our high-performance networks create new opportunities for monetization and scale. Service providers, enterprises and partners worldwide trust Nokia to deliver secure, reliable and sustainable networks today – and work with us to create the digital services and applications of the future.

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