

Cisco Ultra M: Packet core virtualization without the complexity

Value statement

Cisco® Ultra M allows an operator to virtualize the entire suite of Cisco's mobility product line as a single Virtual Network Function (VNF) node.

Overview

Ultra M is a turnkey virtual solution that consists of Cisco mobility software, Cisco general-purpose compute hardware, and various OpenStack components that support the ability to orchestrate and manage the VNF as a core network element.

Features and benefits

Ultra M is for mobile network operators who:

- Want to move incrementally toward Network Functions Virtualization (NFV)
- Would like to start with Cisco's Virtual Packet Core Virtualized Network Functions (VNFs)
- Want to avoid the complexity of integrating Cisco NFV Infrastructure (NFVI), Cisco Virtualized Infrastructure Manager (VIM), and packet core VNFs independently
- Prefer a simple support model

Key Cisco differentiators

- Common mobility software across various general-purpose compute to enable operations efficiency
- Fully functional NFV with the full-feature, rich mobility suite
- Radio-agnostic platform with worldwide deployments in a multivendor Radio Access Network (RAN) environment
- Resiliency with both software and hardware redundancy
- Seamless 5G migration with Node Selection and Load Balancing (NSLB), Control and User Plane Separation (CUPS), and hybrid CUPS alignment with 3GPP Rel. 14

Platform support

Cisco UCS® B-Series Blade Servers and Cisco UCS C-Series Rack Servers.

Licensing

Subscription and Perpetual licenses are available.

Product specifications

Hardware specifications:

- 4 UCS C240 M5 Rack Servers (Cisco VIM-specific)
- Two fully loaded UCS-B blade servers with an associated switch

Software

- Mercury OpenStack
- ESC VNFM
- VPC
- Management

Application

- All the supported gateway types as of release N4.5 and higher (SAEGW, MME, etc.)
- Cisco VIM (RedHat-based) on fixed hardware
- Cisco VNF management tools

Support

- Consolidated software support (single Cisco BU)
- Validated deployment design and guide

System requirements

VPC sizing requirement of up to 1.8 million sessions based on our standard call model.

Cisco and partner services

Services from Cisco and our partners help you get the most value from your Cisco UPC solution, both quickly and cost-effectively. In addition, we can help you:

- Solidify your vision
- Create a strategy
- Develop a roadmap
- Build a scalable design
- Migrate smoothly
- Simplify your architecture and operations
- Strengthen your team by sharing what we know

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Get started

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