

# Metaswitch Deployment Manager

The sheer scale of deployments envisaged for NFV demands good operations automation. Without this, it will be impossible to achieve the agility expected. When clouds are measured in thousands of hosts across tens or hundreds of sites, automated deployment tools will be the only way to avoid damaging and costly errors that impact service availability or security.

Good automation ensures that cloud and network resources are utilized efficiently, and frees up scarce human resources to focus on real service innovation rather than the day-to-day work of running large systems.

Metaswitch Deployment Manager (MDM) provides simple and comprehensive APIs for automation of all lifecycle operations for Metaswitch VNFs. MDM can be integrated with any Management and Orchestration (MANO) stack easily and quickly. It evolves with your network, from centralized NFVI to highly distributed 5G Multi-Access Edge Computing (MEC) environments.

## Cloud Native Operations

Operational automation is the single most important evolution that NFV brings. It forms the heart of the “Software Telco”, and will determine the speed of service innovation that each operator can deliver, while maintaining the Telco-grade differentiation that is so important to high-value customers.

### Agility

- Service in days not years
- Reusable microservices
- Geo-localized instantiation
- Continuous integration

### Safety

- Error-free, MOP-free
- Faster, simpler upgrade
- 5-nines + availability from IT-grade 4-nines cloud

### Cost Savings

- Track the demand curve
- N+k GR HW efficiencies
- Ops staff can focus on value-add tasks

*Benefits of orchestration*

## Adapts To Your Operational Needs

MDM integrates with your selected operational toolchain at any level, by exposing simple and consistent APIs for lifecycle operations for all Metaswitch VNFs. It is designed to be easy to adapt as your MANO systems are refined and evolve. For example, many operators might start by automating instantiation and healing only. When they have more experience of automated operation, they might also automate scaling and upgrades. Metaswitch has even built containerized cloudbursting to public clouds, demonstrating the power of well-designed orchestration APIs from MDM to automate the most demanding operations.

Optionally, Metaswitch can supply our VNF Manager, which combines MDM with Cloudify to allow easy day-one operation of Metaswitch solutions.

Alternatively, Metaswitch provides full MDM API support, including professional services, to help you to integrate MDM with your selected MANO systems. We also offer orchestrated deployment design services to assist with the goals, architecture and implementation of your elastic network, whether it includes a centralized private cloud, hundreds of MEC sites or a hybrid cloud implementation.

### Decide how far you want to go...



**Single automation toolchain simplifies operations, reduces costs**

## Specifications

### Lifecycle Operations Support

- Instantiation
- Healing
- Scale out/Scale In
- Upgrade

### Platform

- Available for Openstack and VMware VM-based deployments, or for Kubernetes-orchestrated container-based NFV
- Supports hybrid VM and container-based systems

### Capacity

- Scales to any size of Metaswitch VNF network deployment

### Supported Metaswitch Products

- Clearwater IMS Core
- Converged Network Message Store
- MetaSphere MTAS
- MetaView Network Management System, including MetaView Director and MetaView Statistics Engine
- Perimeta SBC
- Rhino TAS for Mobile
- Service Assurance Server
- Radisys MRF

### Supported Metaswitch Solutions

- |                                 |                                       |
|---------------------------------|---------------------------------------|
| • Hosted Unified Communications | • Voice Interconnect                  |
| • Mobile UC                     | • Voice over LTE and Voice over Wi-Fi |
| • Network Transformation        | • VoLTE Peering and Roaming           |
| • Virtualized IMS               |                                       |

### Capabilities

- APIs for direct integration to customer-selected MANO stack, for any level of operational automation
- Supports automatic elastic scaling or manual push-button control – your choice
- Error-free instantiation, healing and upgrade, which ensures correct geo-distributed VNF location, correct database cluster quorum per-site, and predictable failover behaviour
- Optional pre-integrated standalone VNF Manager package, based on Cloudify
- Professional services support from Metaswitch for orchestrated virtual deployment design and integration

\* MDM phased availability now-mid 2018