DATASHEET

OneManage

Programmable Management Platform



OneManage is the OneAccess portofolio's management suite automating Customer Premises Equipment (CPE, either physical pCPE or virtual uCPE or Ekinops VNFs) configuration, software image distribution and Voice Quality Monitoring (VQM). Provisioning and VQM are available as two separate licenses that include a common device monitoring and alarm framework. OneManage simplifies daily operations and increases productivity for lower operation costs.

Zero-touch CPE installation is enabled by an auto-configuration protocol such as TR-069 (CWMP) and Call Home protocol. OneManage manages the server-side parameter creation for the auto-configuration protocol. The system enables rapid CPE configuration creation from CLI templates. CPE are managed in groups where the network administrator can apply bulk changes for a whole group.

The zero-touch service activation reduces installation costs for telecom operators and organizations deploying large-scale networks. OneManage also simplifies network maintenance by automating change tasks in hundreds of CPE (pCPEs, uCPEs and VNFs) in one operation. Updating all device types with a new software image or populating a template change into many device configurations does not require significant effort and time any more. While operation costs are streamlined, OneManage's main benefit is also to reduce risks of errors associated with the use of self-designed tools or manual operations.

Critical to SMB's operation is the availability of communications. VQM enable service providers to pro-actively monitor and fix voice quality issues. Customer satisfaction is increased while ensuring low customer churn.

Customizable, User-Friendly Configuration Engine

The configuration generation engine is flexible to support complex scenarios. Including scripting within the template enables the ability to generate advanced configuration files. Adding template input parameter controls avoids user input errors and unexpected output configurations.

With OneAccess solutions, network engineers do not need programming skills to orchestrate VNF activation and chaining anymore. OneManage facilitates the template design of its uCPE solution with a GUI-based plugin called 'Design Studio'.

Task Automation

CPE are all member of a group. Groups can be organized in sub-groups. The hierarchical organization of CPE enables an administrator to operate bulk operations on logical groups, such as planning a software upgrade or querying connection status.

When changes on templates, software, web files are applied, they are de-facto activated in OneManage database. For a better scalability, the CPE will be updated at their next connection to OneManage. However, several CPEs may be selected on OneManage web interface to trigger an immediate update.

Monitoring and Alarm Management

Network status is displayed at a glance with alarmed sites on a map. The operations team can quickly drill-down into graphs from this map and discover the root cause of service degradation.

Specifications

General

- Web-based GUI
- Multi-tenant user management: user profiles, customer view
- Northbound interface to create / update / query CPE, retrieve graph data
- Nightly snapshot and restore operations
- Server responsiveness self-monitoring
- Device management in hierarchy of groups

Provisioning

- Standard-based provisioning protocols: CWMP (TR-069), Call Home
- Zero-touch configuration and firmware deployment
- Automatic configuration backup
- Configuration versioning and difference log
- Configuration consistency audit
- Fully customizable templates:
  - Embedded scripting to generate CLI text files
  - Programmable input field types and checks

Alarm Management & Device Metrics Collection

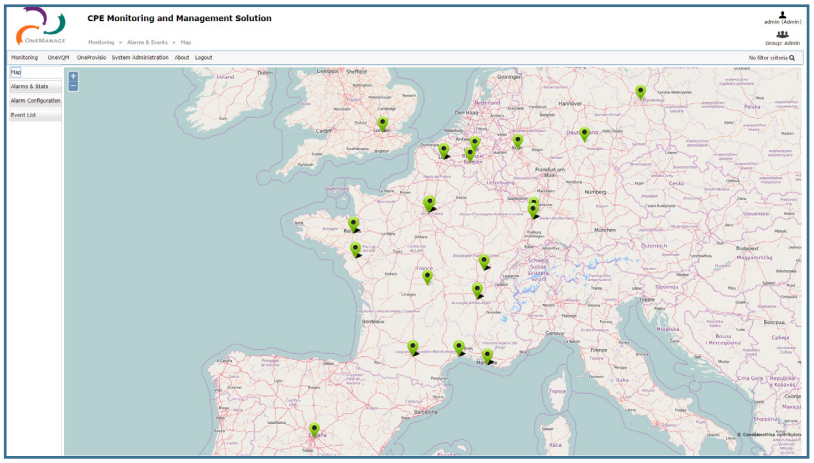
- Provisioning, voice quality degradation events mapped to alarms
- Custom alarm configuration and threshold
- Alarm filtering

Voice Quality Monitoring (VQM)

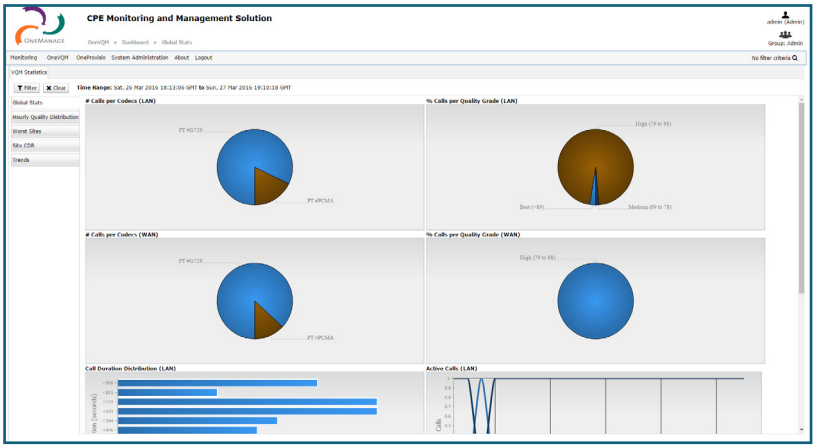
- VQM metrics: WAN- and LAN-side MOS (R-factor), jitter, losses
- Detailed Call Detail Records (CDR)
- Graph display with flexible filtering criteria
- Trend graphs (weekly, monthly basis) and top-worst sites
- Click and drill-down with graphs
- PDF report generation with customizable templates

Installation

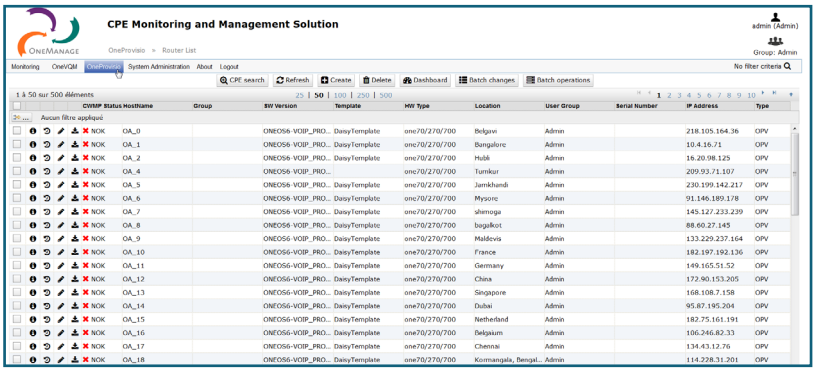
- Up to 30,000 CPE managed per server in provisioning only mode
- Up to 5,000 CPE managed per server (provisioning/ VQM/alarm management)
- Recommended Hardware: Required Docker instance
- OneManage is delivered as containers only and required Docker infrastructure
- Also available in High Availability mode for critical services
- Available also as a Service with OneManage Compose Cloud Starter or Enterprise version



Alarm display on a map



VQM statistics



Router List

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About Ekinops



Ekinops is a European leader in optical networking and secured connectivity solutions for service providers, enterprises and public organizations around the world.

Ekinops designs, develops and manufactures high-performance solutions with cutting-edge software used to deliver high-bandwidth connectivity and managed services in over 70 countries worldwide.

Ekinops leads in the areas of:

- Advanced coherent optical networking for all metropolitan, regional, long-distance and datacenter interconnection applications
- Secured connectivity solutions for enterprises, from voice and data routing devices to Secure Access Service Edge (SASE) capabilities, including ZTNA (Zero-Trust Network Access), SD-WAN, and SSE.

Ekinops operates globally and is listed on Euronext Paris (FR0011466069 - EKI)

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