TSC PERSPECTIVES AND LOOK AHEAD TO RELEASE 5

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OSM COMMUNITY IS REALLY LARGE AND DIVERSE, WITH 106 MEMBERS TODAY...

- 11 Global Service Providers
- Leading IT/Cloud players
- VNF providers

(*) Names & brands may be claimed as the property of others
OSM is about to deliver its 5th release, after reaching production readiness...
RUN TIME SCOPE VS DESIGN TIME SCOPE

RUN-TIME SCOPE

- Automated end-to-end Service Orchestration
- Superset of ETSI NFV MANO
- Plugin model for integrating multiple SDN controllers
- Plugin model for integrating multiple VIMs
- Plugin model for integrating monitoring tools
- Integrated Generic VNFM with support for integrating Specific VNFM
- Support for Physical Network Function integration
- Greenfield and brownfield deployments

DESIGN-TIME SCOPE

- Network Service Definition (CRUD operations)
- Model-Driven Environment with Data Models aligned with ETSI NFV
- VNF Package Generation
- GUI
OSM CORE COMPONENTS

User Interface
- VNF Package Generator
- VNF/NS Catalog Composer
- Account Manager
- Launchpad
- OSM Client

Service Orchestrator
- API Service & Mgmt. Endpoint
- Service Orchestration Engine
- Configuration Data Store
- Network Service Composition Engine
- Catalog Manager
- Resource Orchestrator Plugin

Resource Or orchestrator
- Resource Orchestrator Engine
- API Service & Utilities
- VIM Plugin
- OpenStack
- Amazon Web Services EC2/VPC
- OpenVIM
- VMware vCD
- SDN Plugin
- OpenDaylight
- ONOS
- Floodlight

Monitoring
- Core
- Monitoring Tool Plugin
- OpenStack (Aodh/Gnocchi)
- AWS CloudWatch
- VMware vRealise Operations

DevOps
- One Click Installer
- Jenkins Host
- Common
- UI
- MON
- SO
- N2VC
- VCA
- RO

VIM Emulator
- VCA Engine (Juju Adapter)
- VNF Monitoring

Network Service To VNF Communication (N2VC)
- VNF Configuration & Abstraction

OSM Data Model (IM)

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OSM TOPOLOGY

1. Unified message bus for async communications
2. Integrated components for policy, fault and performance management (auto-scaling, monitoring, etc)
3. Lighter version of the orchestrator: LifeCycle Management (LCM) component as an alternative to SO
4. Unified Northbound Interface
5. Complete control through CLI and stand-alone new UI
6. Common database, storage, authentication and logging systems

Common Services

OSM IM
Common Database (NoSQL)
Object Storage
Logs
Auth

Tools

osmclient
light-ui

New OSM’s NBI

Kafka bus

VCA

RO

LCM

N2VC

OSM IM

POL

MON
## ALIGNMENT WITH ETSI STANDARDS

As detailed in the EUAG White Paper

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*Table 1: ETSI NFV ISG interface specifications of relevance to OSM*
LOOK AHEAD TO RELEASE 5

MULTI-SITE EXTENSIONS
- WIM Management
- Multi-VIM Enhancements
- Additional 5G capabilities

MONITORING IMPROVEMENTS
- Extended interop capabilities
- Policy support
- VNF + VIM Metrics Collection

IMPROVED MODELLING & NETWORKING
- Federated Security Management
- Multi-VDU VNF Support
- Service Function Chaining
- Physical Deployment Unit Support

USER EXPERIENCE & OPTIMIZATION (CLOUD-NATIVE BUILD)
- GUI based NS composer
- Faster startup and responsiveness
- Improved stability and testing
- Better event and log visualization
- Docker, K8 and VM image install
- VIM Account Grouping

Release FIVE
Soon available at: osm.etsi.org
THANK YOU

WEB:  http://osm.etsi.org
SLACK:  opensourcemanono.slack.com