ONAP in ETSI ZSM Architecture

A proposal for discussion by
Amdocs, DT, Ericsson, Huawei, Nokia
ETSI-ZSM ISG Role & Activities

- Industry Specification Group Zero touch network and Service Management (ISG ZSM)
  - Intention to provide future-proof, horizontal and vertical end-to-end operable framework
- The goal is to have all operational processes and tasks (e.g. delivery, deployment, configuration, assurance, and optimization) executed automatically, ideally with 100% automation
- Providing guidance for implementation of management interfaces as well as coordinating and giving directions to achieve automated end-to-end network and service management solutions and architecture
- Review and reuse existing standardized solutions wherever applicable, and conduct feasibility studies
Introduction

• ETSI-ZSM has the ambition of zero touch service management and has created an architecture

• The approach was shared with ONAP at the joint subcommittee meetings in April 2019

• As a follow-up it was agreed that ETSI-ZSM would make a proposal on how ONAP fits with the ZSM architecture, which will be later shared with the ONAP Architecture subcommittee for review

• This is an initial proposal.
  • It presents an option illustrating how ONAP based implementation (as a whole) would fit into the ZSM architecture
  • It presents an option illustrating how ONAP components would fit into the ZSM architecture and how the components map within a ZSM deployment
  • It’s also possible to have other combination options
What is the intent of this presentation?

• The focus is mapping an ONAP implementation architecture into a ZSM functional architecture
• Showcase “how there is no contradiction but rather a complement of views”
• Serve as a starting point for further collaboration
Management Services - Logical Groups

E2E Service Management Domain
- E2E service Orchestration
- E2E service Intelligence
- E2E service Analytics
- E2E service Data Collection

Cross-domain Integration Fabric

Domain Control
- Domain Orchestration
- Domain Intelligence
- Domain Analytics
- Domain Data Collection

Data Services
- Cross-domain Data Services

ZSM Scope
Implementation Options (for ONAP as a whole)
Implementation Options (for leveraging ONAP components)

E2E Service Management Domain
- Mixed solution
- ONAP components

Cross-domain Integration Fabric

Management Domain
- Mixed solution
- ONAP components

Cross-domain Data Services
- Data Services

ONAP components

Legacy Management Domain
- ZSM Management Services Adapter
- Standardized MnS

Standardized MnS

Legacy Domain Services
- ZSM Management Services Adapter
- Standardized MnS

ONAP components
Management Service Groups <-> ONAP components

E2E Service Management Domain
- E2E service Orchestration
- E2E service Intelligence
- E2E service Analytics
- E2E service Data Collection

Cross-domain Integration Fabric
- Domain Control
- Domain Orchestration
- Domain Intelligence
- Domain Analytics
- Domain Data Collection

ONAP
- APPC
- SDN - C

ZSM Scope
Management Service Groups <-> ONAP components
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Cross-domain Integration Fabric

E2E Service Management Domain
- E2E service Orchestration
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Domain Control
Domain Orchestration
Domain Intelligence
Domain Analytics
Domain Data Collection

Cross-domain Data Services

Data Services

ZSM Scope

ONAP
- AAF
- DMAAP
- MSB
- OOM
- External API
- MUSIC
- VID, CLI

Management Domain
Notes from the ETSI ZSM session at the ONAP joint sub-committe meetings in Antwerp, 26th September 2019