PoC Demo #1
ZSM ISG Interim Meeting
Kista, Sweden – Ericsson
July 11, 2018

PoC Champions
Serge Manning, Sprint
Michael Klaus, Deutsche Telekom

PoC Team Contact
Dave Duggal, EnterpriseWeb
**Demo #1 Scenario:** ZSM framework performing autonomic closed-loop, automating end-to-end SLA management (multi-vendor, multi-domain, multi-VIM)

**Demo #1 Use-Case:** Secure VoLTE

**Demo #1 Story:** A healthy running service is degraded due to Denial-of-Service attack. ZSM Framework correlates events, auto-scales and assures

**PoC Team/Role:** Amazon Web Services (NFVI), Amdocs, (Customer Management), EnterpriseWeb (ZSM Framework), EXFO (Service Monitoring), Fortinet (Security VNF), Infosim (Resource Monitoring), Metaswitch (IMS VNF)

Note: demo also incorporates Open-Source projects (CORD and Radisys EPC)
PoC Contributions:

- Demo #1 Video [https://vimeo.com/279707642/619706d16c](https://vimeo.com/279707642/619706d16c)
- ‘Straw Man’ Information Model with Minimum Viable Data Models
- Model for an Intent-based Network Service
- Model for Domain Orchestrator to Domain Orchestrator Interface (DOr-DOr)
- Model for Abstracting Standard LCM Operations
- Sequence Diagrams describing model-based, event-driven, policy-controlled choreography
4.2 The Principles

Principle 01: Modularity
Principle 02: Extensibility
Principle 03: Scalability
Principle 04: Model-driven, open interfaces
Principle 05: Closed loop management automation
Principle 06: Support for stateless components
Principle 07: Design for failure
Principle 08: Separation of concerns in management
ZSM Requirements based on documented scenarios

PoC Scenario and Use-Case cover 50% of requirements

Rough Mapping to ZSM Requirements included with set of PoC contributions

Future iterations of PoC will cover additional Scenarios and Use-Cases to demonstrate broader coverage
ETSI ZSM PoC #1 “ServoCloud”

PoC Demo #2
Layer 123, Den Hague
October 8, 2018

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Serge Manning, Sprint
Michael Klaus, Deutsche Telekom

PoC Team Contact
Dave Duggal, EnterpriseWeb
ETSI ZSM PoC #1 “ServoCloud”

**Demo #2 Scenario:** ZSM framework dynamically interacting with External Systems to support ‘Upselling’ of SLAs by Customer Management System

**Demo #2 Use-Case:** Secure Video Service

**Demo #2 Story:** Customer running video and SLA is satisfied until they attempt to run HD video, QoS performance requirements not satisfied by SLA

**PoC Team/Role:** Amazon Web Services (NFVI, multiple zones), Amdocs (Customer Management), EnterpriseWeb (ZSM Framework), EXFO (Service Monitoring), Fortinet (Security VNF), Infosim (Resource Monitoring), Metaswitch (IMS VNF)

Note: demo also incorporates Open-Source projects (CORD and Radisys EPC)
• Zero-Touch Network and Service Management (ZSM) Framework is connected to external Customer Management (CM) System via NBI

• ZSM Framework is reporting Service Health to CM System (SLA for streaming performance where QoS metric being bit-rate)

• ZSM Framework continues to manage service w/in SLA thresholds

• CM System has its own internal application logic that performance is impacting QoS and will negatively impact Customer Experience – dynamically makes offer to upgrade SLA – customer takes offer

• CM System communicates change in SLA to ZSM Framework

• Change in SLA is a ZSM Framework event, it prompts re-evaluation of service performance relative to new upgraded SLA and will scale service to re-balance for upgraded SLA as per PoC Demo #1
Presentation: Zero-touch Automation

Automation Track
Thursday, October 11th at 11:25am
Amazon Room

Demo: Visit us at Stand D6
At top of stairs, 2nd floor