

# 2020-08-12 OAM report

## Done

- Moving to next ODL version Sodium module testing ongoing
- Update to JAVA 11 module testing ongoing

## Activities

- Analysis of the "Application LCM" use case
- Contributions by Samsung
  - comparison of App deployment by
    - ONAP SO/CDS CSAR (Cloud Service ARchive) packages
    - ONAP DCAE µServices
  - Current view
    - Enhancements of the DCAE app deployment seems fitting best
    - CSAR could be used as O2 pre-spec deployment option for O-RAN VNF/CNF (near-rt-ric, O-CU-UP, O-CU-CP, O-DU)
  - Open
    - resource allocation
- Updates of O1-TR069-Adapter
  - Modularization of the currently "monolithic" YANG module.
- Preparation of supporting gRPC for Transport (WG9)
  - no decision yet

## Challenges

- No feedback from OTF team
- No feedback from RIC Dashboard team

## O-RAN related open-source activities

- OAM project uses and contributes directly to
  - ONAP CCSDK, SDNC project based on **OpenDaylight** project, based on **Apache Karaf**
    - O1 NetConf termination of the SMO according to O-RAN-OAM Architecture and OAM interface specification and according to O-RAN FrontHaul m-Plane (WG4)
  - ONAP DCAE **VES collector**
    - O1 VES termination of the SMO according to O-RAN-OAM Architecture and OAM interface specification
  - ONAP DCAE **File Collector**
    - O1 FTPeS termination of the SMO according to O-RAN-OAM Architecture and OAM interface specification
  - ONAP DMaaP as communication channel between the different O1 termination functions based on **Apache Kafka**
  - ONAP LOG
    - Centralized logging service based on ElasticStack (**ElasticSearch**, **Logstash** und **Kibana**)
  - ONAP AAF
    - Certification for TLS
  - ONAP OOM
    - Deployment of the solution based on **Docker**, **Kubernetes** and **Helm**
  - **ElasticSearch** as local Cache/database.
  - Alpine Linux as operating system
  - **JAVA**, **Node**, **TypeScript**, **Python**, **OpenStack**, **Eclipse**, **vsCode**, **Papyrus**, **MaterialUI** and many, many more for Development

### A few examples from ONAP wiki:

#### o REQ-327: Standards Defined Notifications over VES

Introducing the capability to receive, validate and process standards defined notifications encapsulated in VES events in ONAP.  
Components impacted: (DCAE; Modeling SC; VNF Req)

#### o REQ-352: Enhancing the A1 adapter/interface capabilities in ONAP to manage A1 Policies

Support multiple A1 targets in the RAN and multi-version A1 interface for different A1 targets, introduce secure TLS communication.  
Components impacted: (CCSDK/CDS; SDN-C (SDN-R); Modeling SC)

#### o REQ-345: Optimization and SON functions for 5G RAN. Self-optimization, Self-Healing, Self-configuration

Components impacted: (CCSDK/CDS; DCAE; OOF; Policy; SDN-C (SDN-R))

#### o REQ-318: PNF Plug and Play allows for ONAP to support PNF registration and discovery

Components impacted: (SO; Modeling SC)

#### o REQ-324: The xNF Software Upgrade use case allows for ONAP to update the xNF software

Components impacted: (AAI; SDC; SO; VID)

o REQ-381: Bulk PM data collection control provides a dynamic and efficient way to configure performance measurement collection  
Components impacted: (DCAE)