

2022-06-DD - ONAP: An O-RAN SMO Use Case with Netconf Notifications

Topic Leader(s)

- [Sriram Rupanagunta](#)
- [bhanu chandra](#)
- [Brandon Wick](#)

Topic Description

60m

Part 1: Demonstration of O-RAN SMO use case built with ONAP. Part 2: Session covering extending Netconf notification support for ONAP SND-C/SDN-R.

Topic Overview

Part 1: Topic Overview:

1. Aarna Networks built an O-RAN SMO using open source components from ONAP projects SDNR, DCAE, etc.
2. CapGemini offers O-RAN compliant CU/DU that follows the O-RAN WG1 O1 spec and supports various features like Provisioning Management, Fault Management, File management, and more.
3. Aarna and CapGemini are working together for a private 5G O-RAN deployment.
4. Aarna and CapGemini doing interoperability testing between SMO and CU/DU.

We will show the following Demo:

1. Bring Up the CU/DU and SMO
2. Connect CU/DU to SMO (manually/plug n play)
3. Configuration Management (config push from SMO to CU/DU)
4. Show Fault Management

Part 2: Topic Overview:

1. Support for netconf notifications is limited in the ONAP SDN-C/SDN-R.
2. This presentation shows how to extend the support based on your need.
3. Code walk through on adding new netconf notification and corresponding netconf notification to ves conversion
4. Why do we need this? As per the ORAN specs, SMO has to handle various netconf notifications on O1 side like, fileready, software activate, inprogress.. etc.

We will show the following Demo:

1. Generate netconf notification on simulator
 1. Receive netconf notification on SDNR from karaf log
 2. ves collector logs to show the converted netconf notification to ves conversion
 3. Show the event in DB.

Slides & Recording



YouTube

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- Demo

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The slides are here.



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The session recording is here.



ONAP_SDNR_Netconf.mp4

Agenda

Minutes

Action Items

