

2020-11-04 Meeting notes (ONAP/O-RAN-SC/SMO - Meeting)

Date

04 Nov 2020 | 9am PST | noon EST | 17:00 UTC | 18:00 CET | 21:30 IST |

Zoom: <https://zoom.us/j/436210993>

Attendees

- [Martin Skorupski](#) ★
- [Alex Stancu](#) ★
- [John Keeney](#) ★
- [Mahesh Jethanandani](#) ★
- [Swaminathan Seetharaman](#)
- [Abhinav Singh](#) ★
- [Alessandro Gerardo D'Alessandro](#) ★
- [Amy Zwarico](#) ★
- [Andrea Buldorini](#) ★
- [@Anh Le](#)
- [Claudio David Gasparini](#) ★
- [Dibas Das](#) ★
- [@Dmytro Gassanov](#)
- [Fernando Oliveira](#) ★
- [Kamel Idir](#) ★
- [Kuldeep Negi](#)
- [Grzegorz Wielgosinski](#)
- [Joachim Blixt](#) ★
- [user-7f92d](#) ★
- [Lasse Kaihlavirta](#) ★
- [Lathishbabu Ganesan](#)
- [Manoj Nair](#)
- [marcin krasowski](#) ★
- [Michela Bevilacqua](#) ★
- [Paulo Costa](#)
- [Pawel Slowikowski](#) ★
- [Scott Blandford](#)
- [Sonia Sangari](#) ★
- [subhash kumar singh](#) ★
- [Timo Perala](#) ★

Please add yourself. Thanks!

Discussion items

Time	Item	Who	Notes
00:00	Admin	Martin Skorupski	Next meeting: 2020-11-11
00:05	O-RAN-SC	O-RAN-SC PTLs	Status reports: ▪ SMO: ▪ ongoing - see last weeks meeting minutes ▪ LNF project onboarding ▪ Non-RT-RIC: ▪ focus O-RAN-SC to use the ONAP Adapter Doc ▪ testing an demos in preparation ▪ Licensing issues becomes now also in issue ▪ SIM: ▪ sim/o1-interface: updated code in gerrit ▪ working on LF Jenkins jobs for the new code ▪ final preparations for Cherry (INT specific tasks) ▪ OAM: ▪ ONAP SDN-R code adopted for ODL Aluminium module tests ongoing ▪ RestConf to NetConf subtree filtering ▪ IPv6: End-to-End tests moved to Honolulu ▪ GuiCutThrough feature under investigations based on augmentation of ietf-systems

Informed

- [Andrea Buldorini](#)
- [Alexander Dehn](#)
- [@John Ng](#)
- [George Clapp](#)
- [Herbert Eiselt](#)
- [KAPIL SINGAL](#)
- [Tracy Van Brakle](#)

See also

- [2020-11-04 Meeting notes - Joint OAM / NONRTTRIC / SIM / SMO SCRUM meeting](#)

Goals

- share information between
 - O-RAN-SC Non-RT-RIC
 - O-RAN-SC OAM
 - O-RAN-SC SMO
 - ONAP CCSDK/SDNC/SDN-R
 - LFN 🙄

Recording

link to the zoom ([mp4 format](#))

00:16	Use Case	Swaminathan Seetharaman	Use Cases Please see page #2 for details: 5G Use Cases in R7 Guillin. - very first view - to be discussed further: - BULK PM - PM data collection and control 100% aligned with O-RAN interface specification; use case was demonstrated several times - PM collection mechanism aligned to 3GPP proposal: Check updates of 3GPP pm xml file format and updates of VES messages - PM subscription mechanisms aligned to 3GPP proposal: An update could be required in the future for an alignment with recent new 3GPP Parametricjob class - OOF -SON PCI (5G) - use VES 7.2 - reference will be in O-RAN specs. - use 3GPP NRM - see https://forge.3gpp.org/rep/sa5/MnS/ 5G SERVICE MODELING & DEFINITION (5G) - UC under analysis - use VES 7.2 - reference will be in O-RAN specs. - use 3GPP NRM - see https://forge.3gpp.org/rep/sa5/MnS/ open: Integration of A1, O2, R1 interfaces and specifications from O-RAN - CONFIGURATION PERSISTENCE SERVICE (CPS) - ONAP provides a persistency data service that can be used for any XNF configuration data (Poc in Rel G, new ONAP component in Rel H) - CPS is model driven and it may use any YANG model adopted by any xNF (e.g. 3GPP YANG models and vendor extensions) open: is the abstraction by 3GPP and O-RAN sufficient for all the targeted use case - how do μServices, rApps make use of C&PS, if C&PS is device model driven and not service model driven? - Idea: Contribution of consumer view Claudio David Gasparini to carry forward (thanks) - xNF LICENSING MANAGEMENT - not subject of O-RAN (yet) proposal: defer or contribute terms, definitions, specifications to O-RAN - ONAP/3GPP & ORAN Alignment - O-RAN O1 data models are augmenting 3GPP data models - A1, R1, O2 data models are subject of O-RAN only - ONAP/ORAN Alignment -A1 adapter - Detailed alignment/collaboration needed with O-RAN-SC Non-RT-RIC project (For details please reach-out to John Keeney) - testing: please include Lasse Kaihlavirta 5G NRM Simulator in ONAP (CM) - CM is part of O-RAN OAM Architecture and OAM interface specification proposal: as a starting point the 3GPP NRM yang models V16.0.5 from July 2020 should be used - for VES the version 7.2 is specified. note: 5G NRM is not a ONAP Rel G UC - E2E NETWORK SLICING (5G Use Case) - Network Slicing is not part of 3GPP NRM so far proposal: waiting for 3GPP and O-RAN specifications - V17 draft is available - PNF sw upgrade in ONAP is aligned to ORAN O1 specification - xNF Package and onboarding in ONAP - xNF Package compliant to ETSI SOL004, - additional xNF artifacts have been introduced and supported: - VES event, and PM dictionary artifacts according to VES event registration specifications - Additional artifacts (e.g. xNF YANG model) - VES specification are defined by ONAP in VNF requirement project - Control Loop in TOSCA PoC - A Control Loop and Control Loop components have been defined in TOSCA and deployed Feedback from John Keeney: Request for chat for such use cases in Honolulu.
00:45		@Mahesh	Application Package Structure - TOSCA Info from Michela Bevilacqua - ONAP enhanced TOSCA - API schema definition for YANG and VES On the agenda for next week - thanks!!! 😊
00:55			Questions and Answers Non-RT-RIC: External API vs. config map
END			
Backup			

00:10		Mahesh Postman scripts to interface with the SMO and in turn test O1 interface between the SMO and different parts of O-RAN instances of O-CU, O-DU, O-RU and RIC using these models. • yang modules • framework for test and validate CM share content in in SMO Gerrit and create wiki linking to the same source • Working on a framework for vendors for OAM/YANG tests • O-RAN-SC to host the framework • Postman and vsCode as RestClients • Alex about to setup a SIM in OSC lab - involve Rittwik in a O-RAN private lab • OpenFronthaul • 3GPP models are considered. Feedback from Rittwik • SMO in T-Labs • how to run Netopeer server - req to Felix (O-RAN-SC INT PTL) • Alex asked for VMs Init script (Postman) for O-RAN OAM FH M-Plane (o-ran-interface.yang augmenting) interface demoed RFC8040 (RestConf by IETF) support supported by ODL
00:25		Konrad Baka Konrad is absent this week. The presentation will be made when Konrad is available. O-RAN Component deployment The question is: How to deploy the red colored CNFs/VNFs of the O-RAN-Architecture? ▪ CNF for O-RAN-components ▪ model of CNF - how to be configured, how many components, blueprints ▪ CDS model needs to be created ▪ Network-service based on several CNFs ▪ CNF types ▪ Near-RT-RIC ▪ O-CU-UP ▪ O-CU-CP ▪ O-DU For detailed discussion the following page was created: ▪ CNF deployment of O-RAN Components Package ▪ for Network Functions (priority) ▪ for Network Service (second step) CNFs or VNFs ▪ both should be considered ▪ let's start with CNFs first ▪ VNF is considered as additional option ▪ no CNFs and VNFs combined in a single package ▪ maybe not for rApps ▪ VNF should take care about internal CNFs

Action items

