

2021-07-21 Meeting notes (ONAP/O-RAN-SC/SMO - Meeting) - Agenda

21 Jul 2021 | 9am PDT | noon EDT | 16:00 UTC | 18:00 CEST | 21:30 IST

ZOOM: <https://us02web.zoom.us/j/89069708424?pwd=aGJOZm54eTUxd0FXR0VCU1N0ejBrUT09>
Meeting ID: 890 6970 8424

Attendees

- Alex Stancu ★
- Abhinav Singh
- Alessandro Gerardo D'Alessandro
- Amar Kapadia
- Amy Zwarico
- Andrea Buldorini
- Andrew Lamb ★
- Andy Mayer
- @Anh Le
- bhanu chandra
- Byung-Woo Jun
- Claudio David Gasparini ★
- Christophe Closset ★
- Damian Nowak
- bhanu chandra ★
- Dibas Das
- @Dmytro Gassanov
- emmanuel sarris
- Fernando Oliveira ★
- Gervais-Martial Nguoko ★
- Grzegorz Wielgosinski
- HariomGupta(HCL) ★
- Joachim Blixt
- John Keeney ★
- Kamel Idir ★
- user-7f92d
- Konrad Baka
- Kuldeep Negi
- Lasse Kaihlavirta
- Lathishbabu Ganesan
- Manoj Nair
- Martin Skorupski ★
- marcin krasowski ★
- Marcin Wilk ★
- NICHOLAS KARIMI MUIGAI ★
- Michela Bevilacqua
- N.K. Shankaranarayanan ★
- Paulo Costa
- Pawel Slowikowski
- Ruslan Kashapov
- Sonia Sangari ★
- Scott Blandford ★
- subhash kumar singh
- Swaminathan Seetharaman
- Timo Perala ★
- @Vidhu Pandey ★
- William Diego Maza ★
- Zu Qiang (Ericsson) ★
- Sven van der Meer

Informed

- Andrea Buldorini
- Alexander Dehn
- George Clapp
- Herbert Eiselt
- KAPIL SINGAL
- Tracy Van Brakle

See also

- [2021-07-21 Meeting notes - Joint OAM / NONRTRIC / SIM SCRUM meeting](#)

Goals

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

Recording

- [Recording \(MP4 low-res\)](#)

Please add/remove yourself. Thanks!

Discussion items

Time	Item	Who	Notes
------	------	-----	-------

00:00	Admin	John Keeney Martin Skorupski	Next meetings: 2021-07-28: John Keeney 2021-08-04: Martin Skorupski 2021-08-11: John Keeney 2021-08-28: Martin Skorupski
00:05	O-RAN-SC	O-RAN-SC PTLs	O-RAN-SC ToC - E-Release times https://wiki.o-ran-sc.org/display/REL/Releases - Maresh will be SMO PTL in O-RAN-SC Status reports: Non-RT-RIC: John Keeney - how to deploy apps and LCManage them with relations to CLAMP and other ONAP (Note that CLAMP is now part of the Policy Framework, CLAMP has been officially merged in Istanbul release into the Policy project so Control Loop Management is Policy now, no longer CLAMP) - A1 Policy functions to be merged back to ONAP - A1 Adapter https support - Analyzing page 99-111 of https://wiki.o-ran-sc.org/download/attachments/35881433/E_rel_v1.pptx?api=v2 (more details are requested) SIM: Alex Stancu OAM: Martin Skorupski - Analyzing page 99-111 of https://wiki.o-ran-sc.org/download/attachments/35881433/E_rel_v1.pptx?api=v2 O-DU: HariomGupta(HCL) - requirement planning for E-Release
00:30	SMO deployment options	Christophe Closset	SMO deployment options - no tested helm for OAM in O-RAN-SC D-Release - idea update the one from C-release - for Non-RT-RIC a new helm is available - still some updates to be done - Please see presentation within  REQ-887 - Deliver ORAN SMO override IN PROGRESS Meeting? on Friday 6/25 https://lists.onap.org/g/onap-meetings/viewevent?repeatid=37969&eventid=1192141&calstart=2021-06-25 https://lists.onap.org/g/onap-meetings/viewevent?repeatid=37969&eventid=1192141&calstart=2021-06-25 bhanu chandra https://wiki.onap.org/pages/viewpage.action?pageid=103422272 (Updated afterward: Minutes & Recording: https://wiki.onap.org/display/Meetings/2021-06-25+Meeting+notes) - proposed by aarna - see email - TODO add link to wiki - proposal to use this time slot here Activity - kubernetes updates - issues with certs addressed - reuse of O-RAN-SC helm - Winriver lab < Martin Skorupski needed to leave. John Keeney continues minutes. See also: 2021-06-23 Meeting notes - Joint OAM / NONRTRIC / SIM SCRUM meeting >

- REF: 2 Weeks ago: Proposal for an ONAP deployment specific for an ORAN SMO
 - Ref: <https://jira.onap.org/browse/REQ-887>
- @Christophe : Meeting upcoming
 - Every Friday:
 - <https://lists.onap.org/g/onap-meetings/viewevent?repeatid=37969&eventid=1192141&calstart=2021-06-25> bhanu chandra
 - <https://wiki.onap.org/pages/viewpage.action?pageId=103422272>
 - (Updated afterward: Minutes & Recording: <https://wiki.onap.org/display/Meetings/2021-06-25+Meeting+notes>)
 - Attempting to replicate functionality in OSC OAM/NONRTTRIC/SIM demo - based on OSC charts.
 - Mainly updating charts etc.
 - Certs need updating
 - Will be testing in ONAP WindRiver lab - setup etc. Might be a good place to collaborate.
- John Keeney Any update on how to reuse OSC & other external components?
 - @Christophe, will be challenging in OOM, & need to reuse structure & some charts from OOM
- John Keeney Any ideas where SMO would be different from "Full ONAP"
 - @Christophe: Plan to start with OSC charts/flavour ... then depends on Usecases ...
 - Hope to be able to make use of the override files to create different flavours ... aiming for something similar to OSC version
 - Ref [Closed loop use case & "D" Release - Closed Loop Use Case: Simulation of O-RU and O-DU & "D" - Closed Loop Use Case](#)
- John Keeney Probably need different versions for different usecases
 - @Christophe ... OOM have this same idea to have multiple flavours. Discussion gets broader when non-ONAP components are added.
- @NK Shankar ... Should also consider SON and Slicing usecases.
- John Keeney Recall that the OSC D release usecase is not real world ... and will mature in coming releases. Currently mostly treated as an integration requirements driver
 - Ref [Closed loop use case & "D" Release - Closed Loop Use Case: Simulation of O-RU and O-DU & "D" - Closed Loop Use Case](#)
- @Christophe @NK Shankar Need to consider diversity of DCAE components used. Also need to figure out how different simulators could co-exist.
- Lets continue discussions on Friday Call?

INFO from Christophe - 2021-06-30:

Just a few notes:

- We have agreed with ONAP and other members of O-RAN SC to keep an ad-hoc call on Friday to discuss technical details for now (will remove this meeting once all details are sorted out and use the joint meeting to report status)
- Main comment from John is that we cannot consider an SMO deployment without having a way to deploy Non-RT-RIC as well as ONAP components (hence a debate on how this should materialize : extend OOM?)
- We have progressed on the POC in the meanwhile, Sebastien had an idea and has pushed a small repository on github to show what we are doing for now to create a unique installation for O-RAN, trying to implement the following idea:
 - Started from IT/DEP repo, containing some Helm charts for O-RAN (including Non-RT-RIC)
 - Seems an embryo of using ONAP charts to deploy SMO components but sounded like a fork of ONAP charts
 - Instead of copy pasting OOM charts, he create a git submodule referring to oom ONAP charts repo (to keep ONAP untouched)
 - Rework the O-RAN charts to map them to the OOM structure (like OOM'ized O-RAN charts)
 - Try and build (created some makefiles, inspired from ONAP) then push them to a single chart repository
 - Merged ONAP override and O-RAN override to have a single file
 - Created an Install script to deploy the charts in a single Namespace
 - ... it worked more or less

We plan to show that maybe on Friday call (<https://wiki.onap.org/pages/viewpage.action?pageId=103422272>)

--

Are the following pages related?

- CNF/VNF deployments
 - <https://wiki.onap.org/display/DW/Orchestration+Scenarios>
 - <https://wiki.onap.org/display/DW/O-RAN:+ASD+solution>

2021-07-07:

way forward

- release helm repo by OOM should be created
 - (Added later: John Keeney Also asked about getting a helm chart repo for OSC. <https://lists.o-ran-sc.org/g/discuss/message/331>)
- demo was shown last Friday how it could look like
- next step
 - sample overwrite files
- if access to the "demo git" is required, please reach out to Christophe Closset Sébastien Determe Gervais-Martial Nguoko

2021-07-14:

- <https://github.com/gmngueko/oran-deployment/pull/1>
- in non-overwrite helm only docker from "released" nexus should be included...

2021-07-21:

- from John Keeney LFN ticket required to put helm into nexus
- control about helm from different project

	Q/A		
		Kamel Idir	non-rt-ric gateway will be replaced smooth migration to a better solution
00:21	<End>		
END			
00:00	Use Case	@all	OSC Proposed e2e integration use case: O-RU FH connection recovery • REF/Background: ◦ (OAM) Closed loop use case ◦ (RSAC) Meeting 14 Jan: ▪ Slides: https://wiki.o-ran-sc.org/download/attachments/1179971/RU_failure_recovery_use_case.pptx?version=1&modificationDate=1610637325824&api=v2 ▪ Recording: https://zoom.us/rec/share/mKYOGk83mgpvlo2Hx1eY5Oifw9qV9NQd7NIEj-FxQKP0kUpWoc7yvMO_LLPhA_M.lmx2LCh7-QwDHAFi • Martin Skorupski provided intro ◦ Alarm when fronthaul connection dies (O-DU - O-RU) (VES to SMO) • John Keeney If there is a failure both O-DU & O-RU will try reconnect anyway - without this loop? Martin Skorupski Yes. • @? How does SMO connect to O-RU? ◦ Martin Skorupski This is a mix of different deployment options (hierarchical vs hybrid, O1 vs M-Plane). Main issue is agreeing models & terminology. • John Keeney Seems this use case is not real-world useful, especially since recovery will happen automatically anyway, & mix of standards ... • Martin Skorupski John Keeney Using this use case as longer term motivator for SMO/NONRTTRIC/rApp development - independent of usecase • Topology ??: ◦ May need a topology service for this use case - John Keeney Will use a simple file/hardcoded for initial versions of this use case. ◦ Pawe Pawlak Andy Mayer Topology in A&AI, CPS ? John Keeney No - not initially. Plan to keep it simple for this release. <bridge dropped recording stopped at this point. Most participants reconnected once bridge started again> • Topology ??: (contd) ◦ John Keeney Lots of options for how this should be done properly in ONAP. ◦ Swaminathan Seetharaman ONAP usecases already have some plans for this e.g. slicing, oof, etc ◦ Andy Mayer A model should be agreed in ONAP. Lots of previous discussions in ONAP - e.g. what goes in A&AI and CPS ... but that was a while ago. ◦ Martin Skorupski SDNR has some topology model too - not standards based. ◦ @Sven John Keeney Martin Skorupski Lots of issues with different topology models ... and most existing hierarchical models break down in a 5G/CloudRan environment ◦ Lots of work ... Andy Mayer Martin Skorupski Can create a JIRA in ONAP MODCOM ... ◦ ... but will keep it simple here for this use case. • @? Will other O1 usecases be effected? Martin Skorupski i No. O1 functions continue as before. • Martin Skorupski Please add feedback if any

Action items

