

2023-02-08 Meeting notes - Joint OAM / NONRTRIC / SIM Community meeting

Time & Location:



Meeting Detail: Times & Joining Info

Wednesdays at 16:00 UTC in Summer (DST), 17:00 UTC in Winter !

Zoom Bridge : <https://us02web.zoom.us/j/89069708424?pwd=aGJOZm54eTUxd0FXR0VCU1N0ejBrUT09>

- Ensure you are signed into your Zoom account to join.
- Meeting ID: **890 6970 8424**.
- See the Calendar: (<https://lists.o-ran-sc.org/g/main/calendar>)
- **NOTE:** During the "Daylight Savings Time" changeover periods (US vs Europe vs Asia) the time of the meetings may fluctuate.
 - Summer Daylight Savings time eventually stabilizes to: **9am PDT / 12pm EDT / 16:00 UTC / 17:00 BST / 18:00 CEST / 19:00 EEST / 21:30 IST / 00:00 CST (Thurs) / 01:00 JST (Thurs)**
 - Winter (non-DST) time eventually stabilizes to: **9am PST / 12pm EST / 17:00 UTC / 17:00 GMT / 18:00 CET / 19:00 EET / 22:30 IST / 01:00 CST (Thurs) / 02:00 JST (Thurs)**
 - (During WinterSummer DST changeover follow US time. SummerWinter DST changeover follow Europe time)
- Meeting ID: **890 6970 8424**
- You will need a **Participant ID** so you will need to join the meeting from a Zoom client first to get this.
- Dial in: ([Local numbers](#))
 - +1 646 558 8656 US (New York)
 - +49 30 5679 5800 Germany
 - +49 69 3807 9883 Germany
 - +353 1 240 8941 Ireland
 - +46 8 4468 2488 Sweden
 - +46 8 5016 3827 Sweden
 - +358 3 4109 2129 Finland
 - +358 9 7252 2471 Finland

Please checkout the calendars:

- <https://lists.onap.org/g/onap-meetings/calendar>
- <https://lists.o-ran-sc.org/g/main/calendar>

Anti-Trust Notice

- [Antitrust Policy Notice](#)
- [Antitrust Policy](#)

Date

08 Feb 2023

Attendees

- [John Keeney](#) (Ericsson EST & OSC NONRTRIC)
- [Martin Skorupski](#) (Highstreet & OSC OAM)
- [Alex Stancu](#) (Highstreet & OSC SIM)
- [James Li](#) (CMTI & OSC INT)
- [Joseph Thaliath](#) (Samsung & OSC AIMLFW)
- [N.K. Shankaranarayanan](#) (ONAP TSC)
- [Halil Cakal](#) (Ericsson EST)
- [Kevin Timoney](#) (Ericsson EST)
- [Sonia Sangari](#) (Ericsson EST)
- [Kamel Idir](#) (Ericsson)
- [user-6ca6d](#) (CPQD)
- May not have captured a full attendee list for this meeting ... please add/remove yourself 😊

See also / co-located (ONAP/O-RAN-SC/SMO - Meeting)

- Co-located with [ONAP 2023-02-08 Meeting notes \(ONAP/O-RAN-SC/SMO - Meeting\)](#)

Contents

- [Anti-Trust Notice](#)
- [Date](#)
- [Attendees](#)
- [See also / co-located \(ONAP/O-RAN-SC/SMO - Meeting\)](#)
- [Contents](#)
- [Recording](#)
- [Notes:](#)
 - [Housekeeping:](#)
 - [OSC Project roundup:](#)
 - [News from OSC TOC call last week](#)
 - [NONRTRIC \(John Keeney\)](#)
 - [SIM \(Alex Stancu\)](#)
 - [OAM \(Martin Skorupski\)](#)
 - [O-DU \(Hariom Gupta Vidhu Shekhar Pandey\)](#)
 - [OSC Integration / INT \(James Li \)](#)
 - [RSAC/SMO \(David Kinsey\)](#)
 - [AI/ML platform project \(Joseph Thaliath\)](#)
 - [ONAP Use cases \(N.K. Shankaranarayanan\)](#)
 - [ONAP / OSC / O-RAN Alliance: Cooperation & Alignment](#)
 - [LFN DTF:](#)
 - [Questions / Comments / AOB:](#)

Recording

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

Notes:

Housekeeping:

- [Calendar:](#)
 - <https://lists.o-ran-sc.org/g/main/calendar>
 - <https://lists.onap.org/g/onap-meetings/calendar>
 - **09:00 PST | 12:00 EST | 17:00 UTC | 17:00 GMT | 18:00 CET | 22:30 IST | 01:00 (+1d) CST**
- *OSC SMO project calls now move to its own time slot - alternate Thursdays*
 - *See OSC RSAC Calendar: <https://wiki.o-ran-sc.org/display/RSAC/calendars>*
 - *See also OSC Meetings calendar: <https://lists.o-ran-sc.org/g/main/calendar>*
 - *(Note this meeting to open to anyone, including non-ORAN members)*
 - *We will maintain this slot for ONAP Alignment, and try flag issues/question to/from SMO meetings.*
 - *See [OSC SMO Project meeting notes](#)*
- *See also [OSC AIML Project meeting notes](#)*

OSC Project roundup:

News from OSC TOC call last week

- [https://wiki.o-ran-sc.org/display/TOC#ORANSTechnicalOversightCommittee\(TOC\)](https://wiki.o-ran-sc.org/display/TOC#ORANSTechnicalOversightCommittee(TOC))
 - Last week's TOC (Thursday):
 - No call last week
 - This week's TOC (Tomorrow):
 - Discussion on copyright & O-RAN F2F preparation

NONRTRIC ([John Keeney](#))

- G Maintenance Release - small bug fixes etc
 - Image preparation & release continues. No very significant updates from G Release
- As per last week. Development for each of the topics below continue ...
 - Release H Planning continues:
 - (R1) Service Exposure & Management
 - CAPIF Aligned Service Registry
 - Secured/Sandbox execution environment
 - Controlled access & exposure of service to/from rApps
 - (R1) Data Management & Exposure
 - Previous focus on PM data - but will extend to other use cases too
 - Aim to work with AIML project for Training (and Inference ?) data access
 - rApp Management
 - Built on ONAP "Automation Composition" model & platform to implement rApp use cases

- rApp-specific extensions needed
- Packaging, Onboarding & Orchestration of rApps
 - rApp-specific packaging & Onboarding
 - Aim to align with / inform ongoing work in O-RAN (& OSC) about Common App packaging & Onboarding.
 - (rApps with & without μ Service)
- Overlap with Service Exposure work to examine role of an rApp Manager to support controlled exposure & LCM of μ Service and non- μ Service parts of an rApp
- Continued A1-Policy & A1-Enrichment-Information evolution (& R1-A1)
 - A1 Spec evolution
 - A1-Policy work in ONAP (continues in ONAP London) - candidate for R1-A1(P)
 - A1-EI management as part of DME - candidate for how to include A1-EI in R1-DME
- Sample use cases (rApps)
 - Requirements Drivers for rApp/R1 development
 - High degree of cross-project integration activity
- Testing, Maintenance & Housekeeping
 - Function Test & Integration Test environment,
 - Support integration, deployment & configuration of SMO/Non-RT-RIC related functions & usecases in OSC Integration env.
 - Project coordination, Documentation, Delivery, Reporting, Cross-project alignment, Community demos, O-RAN Standardization support, etc.

SIM (Alex Stancu)

- Working with NorthEastern Univ about NS3 Simulator updates for latest E2 version
- O1 simulator alignment with latest O1 updates
- Still trying to see if there is any effect from possible closer interaction with OAI project - might be discussed at O-RAN F2F?

OAM (Martin Skorupski)

- Updating OAM with latest O1 specs.

O-DU (Hariom Gupta Vidhu Shekhar Pandey)

- No Update

OSC Integration / INT (James Li)

- Working on XTesting for xApp onboarding etc
- Examining how to work with INF project re O2 interface, & overlap with Tacker team in SMO.

RSAC/SMO (David Kinsey)

- Ref: [RSAC Meetings](#)
 - Discussion on H Release Planning
 - Discussion to update info for H Release on:
 - Good discussion with [Timo Perala](#) & [N.K. Shankaranarayanan](#) re Requirements in ONAP, and the possibility of better alignment - See below.

AI/ML platform project (Joseph Thaliath)

- Minutes & Meeting: [Meeting notes](#)
- Calendar: <https://lists.o-ran-sc.org/g/main/calendar>
- No update this week

ONAP Use cases (N.K. Shankaranarayanan)

- Long discussion last week!
- TS 28.532 seems to indicate that a combination of href & path parameters should give enough info to extract objectClass and objectInstance of the source of any CM change.
- Will update the sample message in <https://jira.onap.org/browse/INT-2180> && <https://jira.onap.org/browse/INT-2181>
- Work in ONAP CPS can be tracked at <https://jira.onap.org/browse/CPS-1407> && <https://wiki.onap.org/display/DW/CPS-1434%3A+VES+Message+to+update+CPS+DB>

ONAP / OSC / O-RAN Alliance: Cooperation & Alignment

- RSAC today (see above): Good discussion with [Timo Perala](#) & [N.K. Shankaranarayanan](#) re Requirements in ONAP, and the possibility of better alignment - ref [David Kinsey Rittwik Jana](#).
 - Request for list of overlapping topics ... ref list in last week's minutes:
 - Draft from [N.K. Shankaranarayanan](#)
 - O1-/OFHM-related OAM, IM/DM Models WG10 (O1, OAM), WG4 (OFHM), WG5 ?
 - Good amount of existing work and harmonization effort (e.g., yang models, VES msgs)
 - Very strong alignment between OSC & ONAP (avoid duplication - single codebase)

- Would be helpful to make release timelines etc better aligned.
- Non-RT-RIC A1-related: WG2
 - Good amount of existing work and harmonization effort (e.g. A1 interface, modification of ONAP RAN-Sim to support A1)
 - Continue effort to re-use code and principles
- Non-RT-RIC rApp: WG2 (WG10, app management)
 - Good amount of work in OSC - reusing alot from ONAP
 - (**New area) - Ongoing effort to seek out ways to align with ONAP control loops and use cases (originally designed without knowledge of R1)
 - e.g. Already reusing ONAP functions as part of rApp management/LCM
- SMO Policy Functions:
 - (** New area) - ONAP has had a Policy Enforcement Function since beginning, and there is no obvious mapping to existing SMO architecture
 - e.g. inter-rApp coordination ??
 - rApps using Policy Functions - as rApp might use any other SMO service, or rApp might contains Policies (ref work in ONAP ACM / App manager)
- O2 related, cloud management WG6
 - ONAP has a lot of work on NF orchestration and management - looking at O2 support
 - (**New area) - Relatively less focus on cloud infrastructure management (role for other LFN projects? - e.g. Nephio?)
 - (**New area) - integration of use cases which cover both IMS and DMS part of O2
- Orchestration (end-to-end aspects, including components inside SMO) -
 - (**New area) - ONAP has lot of work on Service Design and Orchestration. May be worthwhile for OSC to be align to leverage past work?
- AI/ML related (Training, ...) WG2
 - (**New area) - ONAP work did not assume role of Non-RT and Near-RT RIC. AI/ML work was generic.
 - (**New area) - ONAP did not consider controlled data access / exposure.
- Security WG11
 - Good amount of shared objectives - security of interfaces design, system implementation, code design etc
 - Can share best practices etc
- Simulation work -> OSC
 - Ongoing effort to leverage/harmonize
 - OSC sim work oriented towards OAM (CU/DU/O1), ONAP Sim work oriented towards use case (RAN-Sim)
 - Reusing OSC simulators in ONAP usecases (e.g. RANSim, A1 Policy functions)
 - ONAP RAN-Sim adaptation - A1 termination, abstraction of near-rt-ric and xapp, exploring porting
- End-to-end use case -> WG1, OSC
 - End-to-end slicing, SON, Intent-based, OAM, life-cycle management
 - Scope for sharing work and aligning objectives
- Architecture -> WG1
 - (**New area) - Identification of building block sub-systems - esp. related to SMO. (SMOS/SMOF concept?)
 - Target to have only small list of recommended approaches, harmonization/code re-use within same approach

LFN DTF:

- 13-16 February LFN Developer & Testing Forum
 - <https://wiki.lfnetworking.org/pages/viewpage.action?pagelId=82903240>
 - <https://teamup.com/ksgw6qzqcmg9zbzsfq>

Questions / Comments / AOB:

- How is PM data gathered in ONAP / OSC / O-RAN Alliance ... or other opensource ... for use by SMO functions/A1MLFW/NonRTRIC/rApps etc ?
 - [N.K. Shankaranarayanan John Keeney Joseph Thaliath](#)
 - ONAP has a comprehensive solution for PM file collection/parsing/filtering etc DMAAP
 - e.g. <https://wiki.onap.org/pages/viewpage.action?pagelId=92997132>
 - OSC NONRTRIC has a PoC on PM file collection/parsing/filtering etc Kafka NONRTRIC ICS DME
 - e.g. G-Release: Demonstration: "PM Collection & Delivery to rApps" See [Demo](#) for more information
 - OSC AIML looking at interface to ICS/DME for training
 - OSC SMO has some functions for PM VES event collections InfluxDB
 - OSC AIML looking at interface to InfluxDB for training
- [Joseph Thaliath](#) More info on AIMLFW plans for data access:

- Source: https://wiki.o-ran-sc.org/download/attachments/57377183/Integration_plan_v1.pptx?version=1&modificationDate=1675778705403&api=v2



- [Joseph Thaliath](#) Still looking at how ML training can happen in SMO, when inference happens in near-RT-RIC (e.g. train with O1, inference with E2 will not work)
 - Ongoing study in O-RAN Alliance about RAN analytics data exposure to SMO (& rApps) e.g. a new Y1 interface? ... but at a very early stage.

Meeting ends