# 2021-04-28 Meeting notes - Joint OAM / NONRTRIC / SIM SCRUM meeting

# Time & Location:

(i)

Meeting Detail: Times & Joining Info

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

NOTE: During the "Daylight Savings Time" changeover periods (US vs Europe vs Asia) the time of the meetings may fluctuate. See the Calendar: (https://lists.o-ran-sc.org/g/main/calendar)

- 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 we follow US time. SummerWinter we follow Europe time)

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

Joining the meeting:

- Meeting ID: 890 6970 8424
- 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

#### Date

28 Apr 2021

#### Attendees

- John Keeney
- Martin Skorupski
- Alex Stancu
- Dibas Das
- user-4594e
- Fernando (Fred) Oliveira
- HariomGupta(HCL)
- James Li
- Kamel Idir
- Lasse Kaihlavirta
- Lathishbabu Ganesan
- Marcin Krasowski
- Scott Blandford
- Sonia Sangari
- Swaminathan Seetharaman
- Timo Perala
- Sorry didn't manage to get a full attendees list for this meeting ... please add/remove yourself

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

Co-located with ONAP 2021-04-28 Meeting notes (ONAP/O-RAN-SC/SMO - Meeting)

#### Contents:

- Date
- Attendees

- See also / co-located (ONAP/O-RAN-SC/SMO Meeting)
- Contents:
- Recording
- Notes:
  - o Housekeeping:
  - OSC Project roundup:
    - NONRTRIC (John Keeney)
    - SIM (Alex Stancu)
    - OAM (Martin Skorupski)
  - ONAP Slicing Update (Swaminathan Seetharaman)
  - ONAP-Configuration Persistence Service (CPS) (user-4594e)
  - ONAP-OSC & QA:

## Recording

- Recording (cloud)
- Recording (low-res mp4)

#### Notes:

## Housekeeping:

- Reminder from previous weeks:
  - o OSC SMO calls now move to its own time slot Thursdays
  - See OSC RSAC Calendar: https://wiki.o-ran-sc.org/display/RSAC/calendars
  - (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

## **OSC Project roundup:**

### **NONRTRIC (John Keeney)**

- · Continuing work as reported in past weeks:
  - Helm chart onboarding function hopefully eventually useful for rApp management once the concept is defined.
  - o Service exposure function based on A1 serive exposure gateway for other SMo services hopefully eventually useful for R1 once the concept is defined.
  - O-RU/O-DU helloworld FH recovery use case scripts: 2 different options:
    - Standalone script hopefully eventually deployed as helm chart above
    - ONAP policy exposing ONAP PF as an SMO service hopefully eventually exposed as above
  - o Control extensions Looks similar but redesigned & re-implemented in backend
    - Add new support for A1 PMS configuration
    - Greatly increased test coverage
- On track for OSC D release delivery
- Thanks to Alex Stancu for feedback re O-DU & O-RU simulators

#### SIM (Alex Stancu)

- · Docker images improved in Nexus for RU and DU simulation based on the very simple models for the use cases
  - O-RU
  - O-DU
  - O Documentation at "D" Release Closed Loop Use Case: Simulation of O-RU and O-DU
- All simulators have the same basis so new simulators are easy to create/configure DIY
  - Lots of variants of other simulators can be created from O1 simulator

## **OAM (Martin Skorupski)**

- New repo: nf-oam-adapter https://gerrit.o-ran-sc.org/r/admin/repos/oam/nf-oam-adopter
  - o user-4594e has started adding some content
- Likely ODL Aluminum SR3 will be used in CCSDK H Maintenance release.

## **ONAP Slicing Update (Swaminathan Seetharaman)**

- https://wiki.onap.org/display/DW/R9+E2E+Network+Slicing+use+case
- https://wiki.onap.org/display/DW/R8+E2E+Network+Slicing+use+case
- https://wiki.onap.org/display/DW/E2E+Network+Slicing+Use+Case+ONAP+Weekly+Meetings
- · Presented Slicing progress from earlier versions & plans for I release
- Honolulu & continuing into plans for Istanbul
  - Trying to support multiple versions of ONAP & 3PP NSSMFs, NSMFs, CCMSF
  - o For RAN slicing the O-RAN Alliance preference seems to be that RAN NSSMF coordinates Transport NSSMF. Currently done in ONAP.
  - Some others prefer RAN NSSMF just does RAN slicing, not transport. Transport Slicing controlled by Transport NSSMF requested via NSMF.

- O Working together with ONAP & ORAN stakeholders
- Working on some closed loop use scenarios:
  - Working on Slice configuration not instantiating new Slices/CNFs/VNFs etc. (Instantiation already done) (More sophisticated in J release?) (Want to align with O2 once available)
  - ML model learning (via NONRTRIC) updating configurations to NearRTRIC via A1 (or O1?)
    - Current& Ongoing: Slice Analysis uService, triggers ONAP Policy, which invokes SO (RAN NSSMF), to invoke SDN-C (O1) to near-RT-RIC.
    - Some operations perhaps by A1 instead? To be confirmed from O-RAN Alliance. O1 v A1 depends whether configuration or policies.
  - o Kamel Idir Can the near-RT-RIC do this? Will it be able to access all cells etc for a given NSSAI.
    - Swaminathan Seetharaman Currently needs to be configured over O1. Config info also passed to near-RT-RICS.
    - John Keeney Need to confirm with O-RAN Alliance. Initial, RAN-Wide (multiple near-RT-RICs) would need to be coordinated in SMO / Non-RT-RIC.
    - Swaminathan Seetharaman Working on a Simulation environment
- user-4594e Anything on O2?
  - Swaminathan Seetharaman Not yet ... Something coming in Q3?
  - Swaminathan Seetharaman Needs to work on RAN service modelling to support Slice creation (e.g. VNF instantiation) For J release
    most likely
- Martin Skorupski Where are the code contributions etc?
  - Swaminathan Seetharaman Scattered across many functions e.g. SO mainly, OOF, SDN-C, CPS, SDC, DCAE
- Swaminathan Seetharaman Slice Profile definition needs to be decomposed & translated to be understood by NSSMFs could be formulated as an optimization problem. Currently in OOF. Currently rule-based in OOF with SDN-R. Still lots to do on consistency checking etc.

## **ONAP-Configuration Persistence Service (CPS) (user-4594e)**

- https://wiki.onap.org/display/DW/Configuration+Persistence+Service+Project
- user-4594e presented slides giving summary & status of ONAP CPS



Slicing is the first use case ...



- Q: John Keeney What is relationship between SDNC & NCMP? Which to use to configure an xNF?
  - Can use either Can configure via NCMP or SDNC if use SDNC directly then CM notification will update NCMP eventual
    consistency.
- O Q: Martin Skorupski Namespaces?
  - Not Yang Namespaces ... Vendor namespaces instead used to identify ownership
- O: Martin Skorupski Extending/augmenting other models?
  - Not yet but needed. (Partial supported, but more work needed)
- · Hopefully we can more requirements from OSC? especially to find corner cases etc. Improvements are use-case prioritized.

#### **ONAP-OSC & QA:**

- Skip for this week. Ran out of time.
  - Please contact us direct for any questions/comments