O-RAN SC Technical Oversight Committee (TOC)

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- 2020 06 17
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Technical Charter for O-RAN Software Community

TOC Voting Members

<table>
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<tr>
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*Quorum: 50% or more of total TOC voting members unless excluded due to attendance.

TOC Meeting Info

Technical Oversight Committee meetings are open to the public and held on Wednesdays at 8 AM Eastern Time USA. World Time Zone Map

Zoom 2 Info:

- Join from PC, Mac, Linux, iOS, or Android: https://zoom.us/j/6540568082
- Or Telephone: Dial (for higher quality, dial a number based on your current location)
  - 855 880 1246 (Toll Free), 877 369 0926 (Toll Free)
  - Meeting ID: 654 056 8082
  - International numbers available: https://zoom.us/u/acyy3hylQi

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2020 06 17

Agenda

1. Call for Scribe (minutes owner) Farheen Cefalu
2. Roll Call & Quorum Check

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3. Review and Agree to Minutes of Previous Meeting
4. Review of Today’s Agenda
5. Release Votes and Approval
6. Copyright updates
7. Marketing of the current release (WG, LF, PR)
   1. Bronze Release PR
   2. Virtual Exhibition.
   c. OSC Logo status.
8. Status of Open Action Items (Old Business)
   a. Action/ William Diego Maza update on the coordination with the O-RAN test group
b. **Action**/ Farheen point to the F2F meeting from the Events page to O-RAN Alliance’s latest spreadsheet.

c. **Action**/ Vishnu send Rittwik the slides for the ITU / AI ML Challenge

d. **Action**/ Rittwik: Post ITU / AI ML Challenge slides on the wiki and pull together a team. Include Thoralf.

e. **Action**/ Rittwik: I will set up a meeting for ITU AI/ML and pull together a team.

f. **Action**/ Trishan: clear all the legal items for the code and figure out what is needed for the O-CU repo creation so the team can continue.

g. **Action**/ Lusheng Ji provide Trishan with the O-CU repo trouble ticket.

h. **Action**/ Jinri Huang generate an email to inform Zybnek and EC regarding that we will be delaying the release

9. Standing Agenda Items (Brief Status of Ongoing Activities)

a. Release Manager Trishan de Lanerolle / Release Planning: Weekly TOC Scheduling

   i. Bronze Timeline

   ii. Review Bronze Release Highlights

b. Rittwik Jana Requirements Software Architecture Committee

c. Lusheng Ji: Integration and Test

d. Report out from PTL: Stand-Up & Report Out on Blockers - next week we will start to cover this list. Are there any major items that anyone would like to raise to the TOC this week?

   i. John Keeney Non-RealTime RIC (RAN Intelligent Controller) (NONRTRIC)

   ii. Matti Hiltunen RIC Applications (RiCAPP)

   iii. Thoralf Czichy RIC Platform (RIC)

   1. See status notes under "Status 2020-04-29 and 2020-04-30 and 2020-05-06 and 2020-05-12" in Bronze Release (Jun 2020)

   iv. Yingying Wang O-RAN Centralized Unit (OCU)

   v. Sachin Srivastava O-RAN Distributed Unit High (ODUHIGH)

   vi. Zhimin Yuan O-RAN Distributed Unit Low (ODULOW)

   vii. Martin Skorupski Operations and Maintenance (OAM)

   viii. Alex Stancu Simulations (SIM)

   ix. Xiaohua Zhang Infrastructure (INF)

   x. weichen ni Documentation (DOC)

   xi. (TBD) O-RAN Radio Unit (ORU)

10. New Agenda Items (New Business): New Items Submitted (+speaker) & Open Call to TOC For Additional Items.

11. Planning for Next Meeting

12. Any Other Business (AOB)

13. Meeting Summary (resolutions, new action items, etc.)

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**2020 06 10**

Recording: **2020_06_10_toc.mp4**

**Agenda**

1. Call for Scribe (minutes owner) Farheen Cefalu

2. Roll Call & Quorum Check

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3. Review and Agree to Minutes of Previous Meeting

   a. The minutes of the prior meetings were reviewed, and no corrections.

   i. Vote to approve minutes for 03 Jun 2020

   ii. On motion made by Jinri Huang

   iii. Seconded by Juha Oravainen

   iv. VOTE: Vote taken, item passed

4. Review of Today’s Agenda

   1. Any further updates for the ITU AI/ML Challenge.
1. Rittwik: Sent it to John Paul. Action: Rittwik: I will set up a meeting and pull together a team.
2. Jack: It is difficult to move quickly. It takes time to ramp up.
3. Rittwik: Where should I put the challenge?

2. Lusheng wants to post the status of the Integration and Test

5. Release Votes and Approval
   a. Vote on the Bronze Release and Integration and Test Status
   b. Jack: The press releases are handled by the O-RAN Alliance. Zbynek is the primary contact and he runs it through the O-RAN Alliance. Jinri is our interface to Zbynek. Zbynek has pulled together a draft. It will be combined with the Virtual Demo and the board meeting that is coming up at the end of the month. The direction is to release the release at the end of the month like June 30th. That gives us another week for the highlights. That is the feedback from O-RAN Alliance and Zbynek is our contact.
   c. Jinri: Does not have the latest.
   d. Trishan: Do we need a quote for this release?
   e. Jack: Yes, we should.
   f. Trishan: Jinri please share.
   g. Jinri: I'm not sure we can share but we can pull out a portion and share with this community.
   h. Jack: It is a combined press release making it a little complicated. I'm trying to work through how this work than through the traditional open source.
   i. Trishan: If it is a press release we keep it close.
   j. Jack: If you have input contact Zbynek and he will coordinate with Jinri for the PR Release. That gives us a little window to discuss. Let us go on to the report from the system integration group.
   k. Lusheng: Sharing screen.
   l. Jinri: OCU PTL informed Jinri they have code ready for quite some time. They are waiting for the repo to be opened by the LF. The request was submitted one month ago. It has been ready for quite some time.
   m. Lusheng: I was cc:d on the help desk ticket. LF has added all the information needed for the automation job to create the repo. 7 - 8 hours ago there was a message from LF that the ticket is on hold. Action: Lusheng Ji will check the status of the O-CU demo.
   n. Lusheng: Scope: We have a number of use case flows. Mainly the flows are RIC, O-1, A-1 healthcheck. O-1 was descoped. Traffic use case is a partial flow that verifies the traffic steering decision. First is without KPIMon. Second phase in the Bronze maint, release will deliver the full flow. O-DU high and low will communicate over FAPI and exchange one MAC message. This is also timed for B maint, release. For integration this is what we deployed for testing. The color coding represents different code implemented for different projects. There are some pieces that are grayed out and will be deployed in Bronze maint release. We deployed two k8 clusters in the lab. We deployed SMO real time one lab towards edge. Status: We have completed two of the four flows A1 RIC healthcheck. Long with more than 60 calls. The long chain will interact with non Real Time down to A1 mediator and distributor to the Hello World xApp. To support xApp near Real Time RIC complex flow passed.
   o. Proposals for 4 flows deliverables.
      i. Lusheng would like to recommend option 1
      ii. Lusheng requesting a vote from the TOC.
      iii. Jack: Floor is open for questions.
        1. Jack: if we go with where we are right now. What percentage of work that's been tested. All flows have not been tested.
           There are only certain things that we can test. It is driven by end to end flows. When you say for the overall testing plan what percentage would you put on the testing overall. What percentage of testing of flows will one week give you?
        2. Lusheng: We are between 80 - 90% Blocker is the alarm flow that is blocking the two healthcheck. We are not able to complete the test however the dev teams were successful. That is why I think it is a configuration mismatch and not a feature missing. There is a feature missing but will be provided. The one week extension will help us to complete the alarm process and we will have the 4 flows. The alarm processing flow involves O1 mediator and Prometheus and Prometheus manager. Prometheus are external components of the upstream so configuration is tricky.
        3. Jinri: if we can address can we include O-CU with the one week extension?
        4. Lusheng: The code will not be a part of testing.
        5. Jack: Has the license scan been completed and accepted?
        6. Lusheng: Yes, LF attorney conducted a scan and came back with questions. I distributed to the PTLs. I have to pull that report and return to legal. The issues have been resolved but we don't have LF legal final approval to release the code.
        7. Lusheng: We are putting together a Getting Started guide. It is a work in progress. We will have the test documentation and a video tutorial. The video will be on the tutorial. After the Bronze release will be off, the landing page. The quick start will be for end users of how to configure and run. What are the commands to run. We have the first part all the way up to deploying near completion.
        8. Jinri: Have you considered a two week extension for safety?
        9. Lusheng: No I did not.
       10. Jack: We try to stick as close to our schedule as possible because people will start moving into the maintenance release. We try to focus to validate through testing. That is what is most useful to the software community vs. diving into code that they are not familiar with and they don't have a lot of support. It's progress for the community but not for downstream users. You still have to clean things up.
           a. finishing completing testing
           b. getting through scans
           c. make the getting started guide for people to understand what the Bronze release is all about.
           d. Let the team take on a host of issues for the maintenance release rather than working the team week to week.
           e. David Streibl agrees with Jack to complete in a week and clean up in the maintenance release.
           f. Ganesh and Juha agree.
           g. Jinri: The reason I raised the comment because I think O-CU is critical for the release. If we have a two week window extension we can get the O-CU part done. The code is ready and waiting to be uploaded. If we can do it in two weeks we can include the O-CU.
           h. Jack: We should get it scanned and address the legal issues in time I doubt two weeks... It will either pass or need more time to resolve that will push into maintenance release.
           i. Jack: Martin Skorupski provide the status for the TR-69 adaptor is included.
           j. Lusheng: The previous scan did not include.
           k. Jack: Those are two items we should put on the list for the maintenance release.
Vote: On motion by Lusheng Ji to move the Bronze release from 14 Jun 2020 to 21 Jun 2020 add one week extension to the Bronze release. Delay the release by one week.
   i. Seconded by David Streibl
   ii. VOTE: Vote taken, item passed
q. Jack: Action/ Trishan: clear all the legal items for the code and figure out what is needed for the O-CU repo creation so the team can continue.
   r. Action Lusheng Ji provide Trishan with the O-CU repo trouble ticket.
s. Action/ Jinri Huang generate an email to inform Zybnek and EC regarding that we will be delaying the release
t. Zhimin: We decided to release next week. I have questions for development on the branch. What is the way for us to implement.
u. Lusheng: I will send out a separate email for the release and action items.
v. Jack: For pieces that are complete as far as Bronze is concerned they can branch their code and move on to maintenance.
w. Lusheng: Yes, the release process, 1 you need to make sure as PTL that the artifacts exist in release repo registries and not in staging. 2. xApp descriptors contain a link to the docker image. After that you can make the branch. We will use the bronze branch. All lower case for the branch name. bronze will be the bronze name. The repo owners can make the branch. Please make sure the release notes in the repo docs section is up to date and contains the bug fixes in the release notes. This is the high level process.
x. Jack: Everyone should update their bronze release table for features and capabilities so that it is on the web site as well.
6. Copyright updates
7. Marketing of the current release (WG, LF, PR)
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         1. Vote to approve minutes for 03 Jun 2020
         2. On motion made by Jinri Huang
         3. Seconded by Juha Oravainen
         4. VOTE: Vote taken, item passed
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      v. Action/ Rittwik: I will set up a meeting for ITU Ai/ML and pull together a team.
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