

# 2019 05 29

Zoom Meeting Recording (Zoom meetings are not uploading to this wiki. A ticket was opened with Helpdesk [linuxfoundation.org](https://linuxfoundation.org) #75652)

[Audio only](#)

## Agenda

1. Call for Scribe (minutes owner)
2. Roll Call & Quorum Check
3. Review and Agree to Minutes of Previous Meetings
4. Review of Today's Agenda
5. Status of Open Action Items (Old Business)
6. Standing Agenda Items (Brief Status of Ongoing Activities)
  - a. Release Manager/Release Planning: Weekly TOC Scheduling
  - b. Report out from PTL: Stand-Up & Report Out on Blockers
  - c. Test & Integration Planning
  - d. Report Out of Sub-Committees
7. New Agenda Items (New Business): New Items Submitted (+speaker) & Open Call to TOC For Additional Items
8. Planning for Next Meeting
9. Open Discussion
10. Any Other Business (AOB)
11. Meeting Summary (resolutions, new action items, etc.)

## Minutes

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

Company	Contact Name	Attendance	Alternate Contact	Attendance
<a href="#">AT&amp;T</a>	Jack Murray Co-Chair	x		
<a href="#">China Mobile</a>	Jinri Huang Co-Chair	x		
<a href="#">Deutsche Telekom</a>	David Streibl	x		
<a href="#">NTT DOCOMO</a>	Toshiro Kawahara	x		
<a href="#">Orange</a>	Vincent Danno	x		
<a href="#">Verizon</a>	Viswa Kumar	x		

3. Review and Agree to Minutes of Previous Meetings
  - a. The minutes of the prior meeting were reviewed, and there were no corrections. On motion made by David Streibl and seconded by Vincent the minutes of the May 22, 2019 meeting were the approved by the TOC members.
    - i. **VOTE:** Vote taken, item passed.
4. Review of Today's Agenda
  1. **Action** / Jinri send a reflector to highlight O-RAN members to attend the Shanghai f2f meeting.
  2. What other projects we need to open to kick off our A release.
  3. Add descriptions of repos.
5. Status of Open Action Items (Old Business)
  - a. **Action** Farheen remove Registration and Visa letter from Tokyo face to face.
  - b. **Action** David Streibl send a note to the community about the color naming convention.
    - i. If anyone has other naming conventions other than colors update the [wiki page](#).
    - ii. How do we decide the name like a poll on the wiki?
    - iii. Posting a poll is acceptable and anyone and everyone can vote on the poll.
    - iv. If we don't have any other options we'll use color. **Action/ user-2057e** put a poll for a color for the A release.
  - c. **Action** Lusheng share repo changes and committers spreadsheet with Farheen to attach to these minutes. [Repo and committer changes request on today's ToC call.eml](#). June 5th is the deadline for seed code contributions.
    - i. **Action / user-d3360** will make a request over the email chain about June 5th deadline. Maybe half a dozen to one dozen repos are interested. Intel, Radisys, Inspur, China Mobile has seed code ready to contribute and they will need the O-RAN licenses in standard plain text. Phil said he wants to get the Contributors License (CLA). Phil is out of office this week returning June 4th. **Action user-d3360** will follow up with Phil's backup. **Action / user-d3360** contact [user-59b16](#) about making a change to the matrix below.

New Repos and Committers			
Repo	Description	Committer Name	Email
it/dev	Various development support tools and artifacts	Lusheng Ji	<a href="mailto:lji@research.att.com">lji@research.att.com</a>
		Daved Korman	<a href="mailto:dk3239@att.com">dk3239@att.com</a>
		Chris Lott	<a href="mailto:cl778h@att.com">cl778h@att.com</a>
		Zhe Huang	<a href="mailto:zhehuang@research.att.com">zhehuang@research.att.com</a>

ric-plt/xapp-frame	artifacts for the (near realtime) RIC xapp framework, including common libraries, etc	Abukar Mohamed	<a href="mailto:abukar.mohamed@nokia.com">abukar.mohamed@nokia.com</a>
		Juha Hyttinen	<a href="mailto:juha.hyttinen@nokia.com">juha.hyttinen@nokia.com</a>
		Antti Puhakka	<a href="mailto:antti.puhakka@nokia.com">antti.puhakka@nokia.com</a>
com/golog	Golang implementation of the common logging library	Katri Turunen	<a href="mailto:katri.turunen@nokia.com">katri.turunen@nokia.com</a>
		Roni Riska	<a href="mailto:roni.riska@nokia.com">roni.riska@nokia.com</a>
		Heikk Ahola	<a href="mailto:heikki.ahola@nokia.com">heikki.ahola@nokia.com</a>
ric-plt/utlis	Utilities and common configurations for the (near realtime) RIC Platform	Matti Hiltunen	<a href="mailto:hiltunen@research.att.com">hiltunen@research.att.com</a>
		Tommy Carpenter	<a href="mailto:tommy@research.att.com">tommy@research.att.com</a>
		Lusheng Ji	<a href="mailto:lji@research.att.com">lji@research.att.com</a>
ric-plt/submgr	(near-realtime) RIC Platform Subscription Manager	Peter Szilagyi	<a href="mailto:peter.3.szilagyi@nokia.com">peter.3.szilagyi@nokia.com</a>
		Kalman Nagy	<a href="mailto:kalman.nagy@nokia.com">kalman.nagy@nokia.com</a>
		Bálint Üveges	<a href="mailto:balint.ueves@nokia.com">balint.ueves@nokia.com</a>
		Viktor Bekesi	<a href="mailto:viktor.bekesi@nokia.com">viktor.bekesi@nokia.com</a>
<b>Update existing Repo's committers</b>			
Repo	Action	Name	Email
ric-plt/a1	Add	Tommy Carpenter	<a href="mailto:tommy@research.att.com">tommy@research.att.com</a>
		Scott Daniels	<a href="mailto:daniels@research.att.com">daniels@research.att.com</a>
		Chris Lott	<a href="mailto:cl778h@att.com">cl778h@att.com</a>
ric-plt/lib/rmr	Add	Tommy Carpenter	<a href="mailto:tommy@research.att.com">tommy@research.att.com</a>
		Gueyoung Jung	<a href="mailto:gjung@research.att.com">gjung@research.att.com</a>
ric-app/admin	Delete	Varun Gupta	<a href="mailto:vgupta@research.att.com">vgupta@research.att.com</a>
	Add	Raja Sivaraj	<a href="mailto:rs405h@att.com">rs405h@att.com</a>
ric-plt/dbaas	Add	Arvo Heinonen	<a href="mailto:arvo.heinonen@nokia.com">arvo.heinonen@nokia.com</a>

(Lusheng update: LF helpdesk tickets: #75906 and #75705)

- d. **Action** Lusheng provide gerret repo descriptions to LF technical team.
  - i. In Progress for new seed code contributors.
- e. **Action** Farheen Send out a reminder to the TOC to take a vote on finalizing the release calendar.
- f. The [A Release schedule](#) was reviewed, and there were no corrections. On motion made by Jack and seconded by Vincent the "A" release schedule was approved by the TOC members.
  - i. **VOTE:** Vote taken, item passed.
- g.
  - i. Jinri - Who is organizing the discussion for the epics?
    1. The epics will be driven by the Requirements and Architecture subcommittee.
      - a. **Action** / [user-59b16](#) from AT&T is coordinating the Requirements and Software sub-committee meetings.
    2. Are there software architecture meetings?
      - a. Next week we will formerly kickoff one in the evening time in NYC and one is in the morning NYC time.
      - b. Jinri - We need to inform Working Groups. David agrees. We need to work out how we are going to work with the Alliance. For example with RIC WG 3, and 2 have to know what is going on in the requirements.
        - i. Jinri and Jack are socializing how to leverage WG1 as an interface. It's going to be hard to build interfaces with every WG. Could we leverage WG1 as an interface to the broader WG community.
        - ii. Jinri - **Action**/Rittwik or Jinri invite all the WG chairs to the Requirements and Software Architecture meetings. One of the principles of TOC is to align the WGs.
        - iii. Viswa - I don't understand. I thought this was already aligned.
          1. Jinri - It is hosted by LF and TOC has to report to the O-RAN community.
          2. Gian Michele Dell'Aera (TIM) please have them sign up asap.
          3. Jack - Many of the software decisions will bubble up to a very terse line. Key is E1, and E2 specifications. There will be another package that will provide guidelines. We will eventually consolidate on the key types like E2 or radio resource management. There is a lot of other work that won't be pressing such as OA&M functions. The things that you need to make the software solution but don't get feature attention.
          4. Viswa - I have added a series of questions. I find it hard to find via wiki.
            - a. Have you seen the requirements document yet?
              - i. No
              - ii. We have it posted on the wiki <https://wiki.o-ran-sc.org/display/RSAC>
              - iii. Rittwik will be leading setting up the calls and notifying users. Lusheng is gathering code contributed by different people and uploaded to

gerret. Seed code has not been approved to be a part of the project. This code is available to move into the official project for our A release. In the weeks ahead we will have discussions over whether or not to move the seed code.

- iv. In O-RAN WG8. How is that different than what we are trying to do here?
  1. We've had discussions. WG8 will not generate code. The emphasis there is more on CU, RU, DU layers than the non RT RIC. Code will come from O-RAN SC.
  2. Requirements & Software Architecture will cover post CU and post DU.
  3. Jinri - concerned about day after tomorrow we have a TSC call. Typically in O-RAN Alliance there are three big events. They usually want to release during these events. Is it possible to get this completed by NWC North America in September time frame?
    - a. You can look at the schedule and there is no way to put this in September time frame. Looking at the schedule this gives us a short development schedule. We can try to align with Barcelona. This schedule tends to be the pattern that works. The original goal was to try to have an impact this year.
  4. Jun Song (Samsung) We found mistakes on the requirements document. You can post the document back on the reflector. **Action**/Jun Send out the corrections to the reflector.

h. **Action** David Tallgren send the proposal to the mail list. There is a proposal to make the RIC a project in gerret. RAN Intelligent Controller (RIC) under the Apache2 license.

- i. David proposed making RIC a project. The TOC has the right to create sub-projects in the TOC. The proposal is to make RIC into an official project. We have the people from Nokia as proposers for the projects. Sharing [official proposal deck](#). Scope is this Near RT RIC as a part of release A as the timeline that was accepted. Nokia will start development work as soon as it's approved. Hosted in the Akraio REC platform. We would like to have a gerret repo, jira, wiki space, host a weekly zoom meeting, #RIC, and slack channel. Nokia has a bunch of committers. We are proposing [Thoralf Czichy](#) (Nokia) be PTL of the RIC project.

1. Could you touch on xApp framework?

a. The plan is there is at least one demo xapp as part of the RIC project but the actual x-apps are not a part of this effort.

b. Peter Moonki Hong (Samsung) asked Is this separate development?

- i. No the main development will transition the seed code to the project and the code would be classified as the project code where the community can move to near RTRIC. AT&T has been very involved with Nokia. AT&T has a number of developers also working into the seed repository. This is a proposal from Nokia and AT&T is very active in this along with the WGs for the requirements and specifications. The difference with the x-apps will be creating a separate project for the xapp development which will depend on near RTRIC platform and framework. x-apps will be less about framework and more about RAN. It will be under a separate Apache license.

c. Post questions to the reflector and we will work on getting a wiki page set up.

2. **Action**/TOC take a vote on the RIC project.

i. **Action** Jack will talk to TOC about extending the TOC call to 90 minutes as opposed to 60 minutes.

- i. We will shoot for 2 hours next week. We will spend more time talking about requirements and the proposal for projects. We will have a repo structure as a part of the architecture. We are struggling with getting the O-RAN license approved. My opinion is take DU, there is a lot of implementation of code that people want to do under the O-RAN licensing. I recommend we create an Apache and O-RAN repo to that project. This way the framework may not involve the O-RAN licensense. That way it can be an upstream feed to the O-RAN license and be a complete build. People should give feedback. This will allow anyone who wants to know what has been contributed under Apache or O-RAN license. **Action** / Farheen update next weeks meeting to two hours.

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

a. Release Manager/Release Planning: Weekly TOC Scheduling

i. [Releases](#)

b. Report out from PTL: Stand-Up & Report Out on Blockers

c. Test & Integration Planning

d. Report Out of Sub-Committees

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

1. Jinri - The week following the Tokyo meeting there will be an O-RAN Symposium June 25 whole day in Shanghai. It is open to everyone and I encourage everyone to add to the event. Next week will run this meeting for two hours. We will start talking about Epics. So start to think about the epics in the "A" Release. We will take a poll on naming the releases and we will move forward.

8. Planning for Next Meeting

9. Open Discussion

10. Any Other Business (AOB)

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

a. The [A Release schedule](#) was reviewed, and there were no corrections. On motion made by Jack and seconded by Vincent the "A" release schedule was approved by the TOC members.

i. **VOTE**: Vote taken, item passed.

b. The minutes of the [prior meeting](#) were reviewed, and there were no corrections. On motion made by David Streibl and seconded by Vincent the minutes of the May 22, 2019 meeting were the approved by the TOC members.

i. **VOTE**: Vote taken, item passed.

c. **Action**/TOC take a vote on the RIC project.

d. **Action** / Jinri send a reflector to highlight O-RAN members to attend the Shanghai f2f meeting.

e. **Action**/ [user-2057e](#) send out a poll for a color that begins with "a" for the A release.

- f. **Action** / [user-d3360](#) will make a request over the email chain about June 5th deadline. Maybe half a dozen to one dozen repos are interested. Intel, Radisys, Inspur, China Mobile has seed code ready to contribute and they will need the O-RAN licenses in standard plain text.
- g. **Action** [user-d3360](#) will follow up with Phil's backup regarding the CLA because China Mobile is ready to contribute code.
- h. **Action** / [user-59b16](#) from AT&T is coordinating the Requirements and Software sub-committee meetings.
- i. **Action** / [user-59b16](#) invite all the WG chairs to the Requirements and Software Architecture meetings. One of the principles of TOC is to align the WGs.
- j. **Action** / [Jun Hyuk Song](#) Send out the corrections on the requirements document to the reflector [toc@lists.o-ran-sc.org](mailto:toc@lists.o-ran-sc.org).
- k. **Action** / [Farheen Cefalu](#) update next weeks meeting to two hours.