

2021 Q4 (Oct, Nov, Dec)

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2021 12 15

Recording: [toc recording](#)

Agenda

1. Call for Scribe (minutes owner): [user-2057e](#)
2. Roll Call & Quorum Check

Company	Contact Name	Attendance	Alternate Contact	Attendance
AT&T	Jack Murray Co-Chair	x	David Kinsey	
China Mobile	Jinri Huang Co-Chair	x	James Li	
Deutsche Telekom	David Streibl	x	Ondej Hudousek	
Ericsson	John-Paul Lane	x	John Keeney	
NTT DOCOMO	Masafumi Masuda	x	Anil Umesh	
Nokia	Juha Oravainen	x	Thoralf Czichy	
Orange	William Diego	x	Vincent Danno	
Radisys	Ganesh Shenbagaraman		Manasi Padhy	x
TIM	Andrea Buldorini	x	Scarpina Salvatore	
Wind River	Bin Yang		Jackie Huang	x

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

3. Review and Agree to Minutes of Previous Meeting
 - a. **Decision:** Minutes for TOC meeting approval: proposed by David seconded by James The motion is approved
4. Review of Today's Agenda
5. Release Votes and Approval
6. AAL project
 - a. **Action point:** Trishan to check if you have to sign a new agreement for the repo if TOC decides on BSD license use. Refer to minutes of previous meeting(s) for details.
 - i. Update on 11/17/21 : [Trishan de Lanerolle](#) we can put an exception clause for introduce a new license (BSD), this will be done in coordination with WG6.
 - b. **Action point:** Jack to present the write up about the AAL project to have a vote.
 - i. This was put on the table on 2021-07-07 meeting
 - ii. Jack: There is discussion ongoing in WG6 and we're still waiting for some aspects that discussion to be resolved. Some clarifications were made but until we get more information we leave this table for now
 - iii. No update on 12/01/21.
 - iv. No update on 12/08/21.
 - v. No update on 12/15/21.
7. Copyright update
 1. 12/01/21:
 1. Jinri: What is the status of defining the process for moving eg. YANG files under SCCL license. There was also question if OSC charter needs update to reflect SCCL.
 2. Jack: I am working on writing the process description but it needs further work on streamlining of the process and automation. Only O-RAN SCP charter controlled by O-RAN will need update and there is ongoing discussion with legal team.
 2. 12/08/21:
 1. Jack: Progress on CLA was made. Ongoing work on the processes.
8. O-RAN-related business (marketing, WG interaction, TSC/EC update etc.)
 1. 12/01/21:
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 3. Jinri: There is to be confirmed plan to have 2 PRs. First one will be about plug-fest. Second one that will include OSC release E and other 2021 achievements is now planned for Jan 22.

4. Jack: Last TOC meeting of 2021 will happen on 15th Dec and then we will resume on 5th Jan.
 2. 12/08/21:
 1. PR for release E:
 1. **Action point:** Jinri asks PTLs to provide quote and highlight of 2-3 new features or improvements in their project.
 2. Tracy: This year's joined O-RAN/TIP Plugfest used release E software. PR message should be aligned. [Link](#) to release D PR message.
 3. Please contact Jinri if your company is interested in providing quote. There is process to balance the quotes and include quotes from one company in every other PR instead of consecutively.
 - c. 12/15/21
 - i. Rittwik and David Kinsey will sync with Jinri about release overview
 - ii. Our PR is likely to be published together in O-RAN Alliance 2021 summary and possibly other pieces.
9. Old business and Status of Open Action
- a. "E" Release timeline.
 - i. 12/08/21:
 1. James: No blockers for release. Working with PTL to follow on their progress and what can be worked for integration. Also working on release wiki page.
 2. Trishan: License scan was executed and PTLs received email with the results. There were only few medium level issues.
 3. James will follow up with PTL to resolve all the issues.
 4. Jack: Basic required steps for release:
 - a. Resolve the license scan issues and update documentation.
 - b. Branch e-release before TOC call on Dec 15th
 - c. TOC release vote will happen on Dec 15th.
 - d. Approx. week after vote release is publishes after process of packaging.
 - ii. 12/15/21:
 1. James: No outstanding issues from scan, monitoring the release processes from projects.
 2. Agreement that James will not create single tarball file for the release E as it was not created for D release. There will be reference to container image list same as it was provided for D release.
 3. **Jinri makes a motion to approve of release of O-RAN SC Release E. Seconded by David. The motion is approved.**
 - b. OSC lab in Taiwan (Prof Ray's lab):
 - i. 11/24/21 : [user-30c9d](#) initial configurations (TDD specs) is ongoing.
 - c. 5G Super Blueprint status - tabled for D and E, will be re-evaluated for F release.
 - i. 11/10/21: [Tracy Van Brakle](#) 5G super blueprint is already taking advantage of the OSC initiated developments in ONAP (but not just ONAP). Jack: There are new functionalities that are needed that we need to make sure that gets into the roadmap.
 - d. "F" Release time:
 - i. 10/27/21: Rittwik: will focus on O-Cloud usecase in F release, as well as the continuation of network slicing use case. Will reach out to PTLs to check if any more use cases. And might divide use cases between Taiwan lab and New Jersey lab.
 - ii. 11/03/21: Jack: please reach Rittwik and David to get early information into the planning process of F release.
 - iii. 12/15/21: Planning discussion
 1. There are multiple smaller contributions planned for F release.
 2. NTT Docomo proposes to leverage Tacker OpenStack as upstream project for O2 implementation in SMO project but there is also WindRiver contribution on O2 so alignment will be needed in F release planning.
 3. Testing of Slicing E2E should be one of the goals of OSC Lab in release F to validate work done in E.
 - e. Access to the lab, raised by [Mahesh Jethanandani](#)
 - i. Mahesh: SMO and ODU high have different access levels to the lab and VMs.
 - ii. [John Murray](#) : Please send me the e-mail with details and I will help with the access to the lab. Access to the VMs is more dependent on each project but we can work on that.
10. Standing Agenda Items (Brief Status of Ongoing Activities)
- a. Release Manager [Trishan de Lanerolle /Release Planning](#): Weekly TOC Scheduling
 - b. Requirements Software Architecture Committee
 - c. OSC lab
 - i. Update on 11/24/21 [user-59b16](#) :
 1. Lab is now running, all equipments are there, cables have been delivered last week. Next week, if we can get all PTP running, then the work can continue.
 2. For the Slicing UCs we need some of this preliminary work, but december seems to be short.
 3. O2 pre-spec implementation is available ([James Li](#)), tests could be scheduled on december - E release. [Bin Yang](#) want ed a server that he can stand up in the OC lab to do this O2 validation. [Jackie Huang](#) An email was send with hardware requirements.
 4. [James Li](#)is documented on the wiki that's going on with the New Jersey lab, the Taiwan lab and also I think CMCC want to send that set up a lab in the West Coast.
 - ii. Update on 12/01/21:
 1. E2E slicing use-case cannot be executed fully but we are progressing. Should be functional in F release.
 - a. Report out from PTL: Stand-Up & Report Out on Blockers
 - i. [James Li](#) Integration and Testing (INT)
 - ii. [Mahesh Jethanandani](#) Service Management and Orchestration (SMO)
 1. One repo is branched. Second one waits for permission modification from LF. Code is ready for release otherwise.
 - iii. [John Keeney](#) Non-Real Time RIC (RAN Intelligent Controller) (NONRTRIC)
 1. Repos are branched. Release images are ready. Small improvements of docs is ongoing.
 - iv. [SUNIL SINGH](#) RIC Applications (RICAPP)
 1. Branching should be done by end of the week. The release page will note which apps have been updated in E release a which are obsolete.
 - v. [Thoralf Czichy](#) RIC Platform (RIC)
 1. Ready to branch after aproval. Everything should be ready for release.
 - vi. (TBD) O-RAN Centralized Unit (OCU)

- vii. [user-30c9d](#) O-RAN Distributed Unit High (ODUHIGH)
- viii.

- 1. Code and docs are ready. Yet to update docker image page, will do after this meeting.
- 2. **Action Point:** [user-30c9d](#) to check that ODULOW binary is compatible with E release.
 - a. ODULOW binary will be ready with maintenance release. It should be fine as we plan to do the integration in that timeframe.

- ix. [Zhimin Yuan](#) O-RAN Distributed Unit Low (ODULOW)
- x. [Martin Skorupski](#) Operations and Maintenance (OAM)

- 1. Everything is ready.
- xi. [Alex Stancu](#) Simulations (SIM)

- 1. Everything is ready. Docker images are available and code is branched.
- xii. [Jackie Huang](#) Infrastructure (INF)

- 1. Code is ready but we found issue in in generated ISO image. Fixed version will be available EoW.

- xiii. [weichen ni](#) Documentation (DOC)
- xiv. (TBD) O-RAN Radio Unit (ORU)

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

- a. TOC vote on O-RAN SC software release E. see point 9.a for details

- 12. Planning for Next Meeting
- 13. Any Other Business (AOB)
- 14. Meeting Summary (resolutions, new action items, etc.)

2021 12 08

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 - i. [James Li](#) Integration and Testing (INT)
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1. Feature commits are complete. Working on documentation. We should be ready.
- iii. [John Keeney](#) Non-Real Time RIC (RAN Intelligent Controller) (NONRTRIC)
 1. Finishing documentation. Branching will happen in couple of days. Will check license scan results.
- iv. [SUNIL SINGH](#) RIC Applications (RICAPP)
 1. Matti: All code is committed. Documentation should be ready by next Wednesday.
- v. [Thoralf Czichy](#) RIC Platform (RIC)
 1. All the container images were created, tested the basic things. We plena demo on Dec 21st that also partially documents the release.
- vi. (TBD) O-RAN Centralized Unit (OCU)
- vii. [user-30c9d](#) O-RAN Distributed Unit High (ODUHIGH)
 1. Started documentation. Waiting for feedback on O1 integration and then we can branch.
 2. **Action Point:** [user-30c9d](#) to check that ODULOW binary is compatible with E release.
- viii. [Zhimin Yuan](#) O-RAN Distributed Unit Low (ODULOW)
- ix. [Martin Skorupski](#) Operations and Maintenance (OAM)
 1. Need t check scan results and then we will be ready for branching.
- x. [Alex Stancu](#) Simulations (SIM)
 1. We are ready. Just finishing SIM usage wiki page and documentation.
- xi. [Jackie Huang](#) Infrastructure (INF)
 1. Checked license scan report and confirmed with Trishan and Jeff that no further actions are required. All the code is merged including in StarlingX. Started updating released notes and dev. guide.
- xii. [weichen ni](#) Documentation (DOC)
- xiii. (TBD) O-RAN Radio Unit (ORU)
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 - ii. [Mahesh Jethanandani](#) Service Management and Orchestration (SMO)
 - 1. SMO project is in process for committing, bug-fixing. Close to ready to branch. Will investigate if CII Badge is possible in E release.
 - iii. [John Keeney](#) Non-Real Time RIC (RAN Intelligent Controller) (NONRTRIC)
 - 1. We are ready to branch after scan. Currently working on O-DU slicing use-case. There will be multiple version of the use-case as there are 2 types of VES and 2 controllers and 3 approaches to rApp implementation. Other project are not consuming our APIs so we can continue right until branch.
 - iv. [SUNIL SINGH](#) RIC Applications (RICAPP)
 - 1. We are reviewing and verifying the xApps.
 - v. [Thoralf Czichy](#) RIC Platform (RIC)
 - 1. Couple of items to commit are aiming for December 7th. After that there will be only bug-fixes committed. We still need to fill in wiki with generated containers over next few days.
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- ix. [Martin Skorupski](#) Operations and Maintenance (OAM)
 - 1. We are ready for the scan. Had couple of demos using different APIs from 3GPP and OSC hello world API. We identified issue in OpenDaylight netconf client but there is possible workaround.
- x. [Alex Stancu](#) Simulations (SIM)
 - 1. We are ready for the branching and the scan.
- xi. [Jackie Huang](#) Infrastructure (INF)
 - 1. We are in bug-fixing stage, there are still several issues we need to fix. It should be OK to scan and then late branch.
 - 2. Jack Murray: There is a lot of new INF code so there is possibility to also use maintenance release that usually happens month after main release.
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- 3. Planning for Next Meeting
- 4. Any Other Business (AOB)
 - a. Access to the lab, raised by [Mahesh Jethanandani](#)
 - i. Mahesh: SMO and ODU high have different access levels to the lab and VMs.
 - ii. Jack: Please send me the e-mail with details and I will help with the access to the lab. Access to the VMs is more dependent on each project but we can work on that.
- 5. Meeting Summary (resolutions, new action items, etc.)

2021 11 24

Recording: [zoom recording](#)

Agenda

- 1. Call for Scribe (minutes owner): [William DIEGO](#)
- 2. Roll Call & Quorum Check

Company	Contact Name	Attendance	Alternate Contact	Attendance
AT&T	Jack Murray Co-Chair	x	David Kinsey	
China Mobile	Jinri Huang Co-Chair		James Li	
Deutsche Telekom	David Streibl	x	Ondej Hudousek	
Ericsson	John-Paul Lane	x	John Keeney	
NTT DOCOMO	Masafumi Masuda	x	Anil Umesh	
Nokia	Juha Oravainen	x	Thoralf Czichy	
Orange	William Diego	x	Vincent Danno	
Radisys	Ganesh Shenbagaraman		Manasi Padhy	x
TIM	Andrea Buldorini	x	Scarpina Salvatore	
Wind River	Bin Yang	x	Jackie Huang	

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

- 3. Review and Agree to Minutes of Previous Meeting
 - a. **Decision:** Minutes for TOC meeting approval: proposed by [William DIEGO](#) seconded by [user-2057e](#) . The motion is approved
 - b. [user-2057e](#) scribe for december
- 4. Review of Today's Agenda
- 5. Release Votes and Approval
 - a. AAL project
 - i. **Action point:** Trishan to check if your have to sign a new agreement for the repo if TOC decides on BSD license use. Refer to minutes of previous meeting(s) for details.
 - 1. Update on 11/17/21 : [Trishan de Lanerolle](#) we can put an exception clause for introduce a new license (BSD), this will be done in coordination with WG6.
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 - 1. This was put on the table on 2021-07-07 meeting
 - 2. Jack: There is discussion ongoing in WG6 and we're still waiting for some aspects that discussion to be resolved. Some clarifications were made but until we get more information we leave this table for now
 - 3. Update on 08/04/21: This is on hold. WG6 is not having meetings due to vacations. Stage 3 specs are now being targeted for November train.
 - 4. Update on 11/24/21.
- 6. Copyright update
 - 1. 11/17/21:

1. Jack: There is an other meeting this afternoon with the legal team working on the CLA and update of charter to allow the SCCL license to be manage as part of those projects.
2. 11/24/21:
 1. Jack: Meeting last week for agreed on the CLA structure (not closed yet).
7. O-RAN-related business (marketing, WG interaction, TSC/EC update etc.)
 1. 11/17/21: [Jinri Huang](#)
 1. O-RAN alliance specification work is ongoing to reach november train.
 2. Format of next O-RAN F2F meeting is not decided yet.
 2. 11/24/21:
 1. [Thoralf Czichy](#)next O-RAN meeting will be virtual and probably July 2022 meeting will be face to face.
 2. Jack, Jinri and others should meet to prioritise topics for next release, time slots will be proposed for those discussions.
8. Old business and Status of Open Action
 - a. "E" Release timeline.
 - i. 11/03/21: PR of E release is expected for the first days of the next year.
 - ii. 11/17/21 - Jack: At this window of time the code should be principally freezing with the exception of bug fixes and functionality.
 - b. OSC lab in Taiwan (Prof Ray's lab):
 - i. 10/27/21: Rittwik: Prof Ray's student will update wiki to document the networks/what they have done today.(11/10/21 [James Li](#) in contact and supporting them.)
 - ii. 11/10/21: [user-59b16](#) Prof Ray's student is asking for some help ([user-30c9d](#)) to deal with MAC scheduler (extract scheduler functionalities from ODU). We can start some discussons about it in F release (scheduler assitance as a service model)
 - iii. 11/24/21 : [user-30c9d](#) initial configurations (TDD specs) is ongoing.
 - c. 5G Super Blueprint status - tabled for D and E, will be re-evaluated for F release.
 - i. 11/10/21: [Tracy Van Brakle](#) 5G super blueprint is already taking advantage of the OSC initiated developments in ONAP (but not just ONAP). Jack: There are new functionalities that are needed that we need to make sure that gets into the roadmap.
 - d. "F" Release time:
 - i. 10/27/21: Rittwik: will focus on O-Cloud usecase in F release, as well as the continuation of network slicing use case. Will reach out to PTLs to check if any more use cases. And might divide use cases between Taiwan lab and New Jersey lab.
 - ii. 11/03/21: Jack: please reach Rittwik and David to get early information into the planning process of F release.
9. Standing Agenda Items (Brief Status of Ongoing Activities)
 - a. Release Manager [Trishan de Lanerolle](#) /Release Planning: Weekly TOC Scheduling
 - i. 10/27/21: no update, just wait for final CLA approval to setup repos
 - b. Requirements Software Architecture Committee [user-59b16](#)
 - i. Update on 11/17/21:
 1. [user-59b16](#) Regarding Test & Integraytion, someone who is not affiliated with any company what would like to help and provide some integration testing to James
 2. Jack: how is LF handle individual contributors, there is a policy? [Trishan de Lanerolle](#) It's an open project so contributions from individua are fine and have same process of any other contributors (review, approval), just lets us (LF) know.
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 5. [James Li](#) [David Kinsey](#) O2 interface integration with SMO integration test. [Jackie Huang](#) A small part of O2 interface as an MVP wil be ready for the end of this month. (Will be part of the RSAC agenda for next Tuesday).
 - ii. Update on 11/24/21:
 1. [user-59b16](#) use case for F release - (1) APP package CRD descriptor (link with WG10), implement a pre-spec of this.
 2. Slice use case will also continue for F release. The completion of O2 will be for F release.
 - c. OSC lab
 - i. Update on 11/17/21:
 1. [user-59b16](#)PTP get setup, lab is ready to test maybe a few things of E release and maintenace
 2. Jack: Fronthaul gateway cable is missing (supply problem)
 3. [James Li](#) : [Jackie Huang](#) is requesting OSC lab access VPN and VM. [David Kinsey](#) : contact me providing name, mail, phone and company. Jack: need to updated wiki with this new info and new contact.
 - ii. Update on 11/24/21 [user-59b16](#) :
 1. Lab is now running, all equipments are there, cables have been delivered last week. Next week, if we can get all PTP running, then the work can continue.
 2. For the Slicing UCs we need some of this preliminary work, but december seems to be short.
 3. O2 pre-spec implementation is available ([James Li](#)), tests could be scheduled on december - E release. [Bin Yang](#) want ed a server that he can stand up in the OC lab to do this O2 validation. [Jackie Huang](#) An email was send with hardware requirements.
 4. [James Li](#)is documented on the wiki that's going on with the New Jersey lab, the Taiwan lab and also I think CMCC want to send that set up a lab in the West Coast.
 - a. Report out from PTL: Stand-Up & Report Out on Blockers
 - i. [James Li](#) Integration and Testing (INT)
 - ii. [Mahesh Jethanandani](#) Service Management and Orchestration (SMO)
 - iii. [John Keeney](#) Non-Real Time RIC (RAN Intelligent Controller) (NONRTRIC)
 - iv. [SUNIL SINGH](#) RIC Applications (RICAPP)
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 - vi. (TBD) O-RAN Centralized Unit (OCU)
 - vii. [user-30c9d](#) O-RAN Distributed Unit High (ODUHIGH)
 - viii. [Zhimin Yuan](#) O-RAN Distributed Unit Low (ODULOW)

- ix. [Martin Skorupski](#) Operations and Maintenance (OAM)
- x. [Alex Stancu](#) Simulations (SIM)
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2021 11 17

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Agenda

- 1. Call for Scribe (minutes owner): [William DIEGO](#)
- 2. Roll Call & Quorum Check

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- 3. Review and Agree to Minutes of Previous Meeting
 - a. **Decision:** Minutes for TOC meeting approval: proposed by [William DIEGO](#), seconded by [John Paul Lane](#) . The motion is approved
- 4. Review of Today's Agenda
 - a. Budget summary for 2022 [Trishan de Lanerolle](#)
 - i. Summary of 2021 accomplishments: Rel. D and Rel. E, SCCL license, F Rel. planning
 - ii. Planning for 2022: Technical priorities, alignment with other SDO/OSS, LF support
 - iii. 2022 budget allocation: Dev. support 50.08% , Prog Mgmt + operations 21.6% , G&A 6.3%, Marketing support 8.9%, events 6.6%, legal 5.8%
 - b. [Thoralf Czichy](#) 2021-11-12: Note that on the near-RT RIC side we are now planning to set up Jenkins jobs for automatic creation of ARM64 container images and libraries into Nexus and packagecloud (similar as done for x86). I understand LF supports also other projects (outside of OSC) in such work. We now moved the discussion under [IT-23251](#) (LF support). This is supported by Kiel and Victor. Unfortunately I (Thoralf) can't participate in the 2021-11-17 meeting, but any further information needed, please send a e-mail or we discuss this in the 2021-11-24 TOC meeting.
 - i. [Trishan de Lanerolle](#): on the LF side we have ARM based servers at the DC build it, so we are going to bring a couple of those (already done for ONAP and other couple projects). Work in progress which could be completed for the next release.
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2. xApps are not impacted by the E2 API 2.0 version.
3. [Thoralf Czichy](#) platform is independent of service models so no impacted by new version of PMs.

8. Old business and Status of Open Action

a. "E" Release timeline.

i. 10/27/21:

1. James started to reach out to PTLs to get status, and working on unit tests of network slicing use case.
2. Will use New Jersey Lab for E Release
3. Jack suggests to create some documentation so other people could leverage the effort, and pull in community's participation.

ii. 11/03/21: PR of E release is expected for the first days of the next year.

b. OSC lab in Taiwan (Prof Ray's lab):

i. 10/27/21: Rittwik: Prof Ray's student will update wiki to document the networks/what they have done today. (11/10/21 [James Liis](#) in contact and supporting them.)

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b. Requirements Software Architecture Committee [user-59b16](#)

i. 10/27/21: Rittwik: Suggest Jack reach out to Rich

ii. 11/10/21: [user-59b16](#)

1. RSAC for F release is still going on, assuming network slicing will not get fully completed for E release some backlog items like having the test done via the OTF might move to F release.
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3. [James Li](#): keysight is willing to help on the west coast OSC lab, we are discussing on a detailed plan, more updates in the coming weeks.

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

i. [James Li](#) Integration and Testing (INT)

1. 11/10/21: Once the labs will setup next week, we will start with manual testing and in future we can automatise test via OTF. We are still working on the SMO installation part, we are able to deploy ONAP and Non-RT RIC functions (work on going).

ii. [Mahesh Jethanandani](#) Service Management and Orchestration (SMO)

1. 11/10/21:

- a. one of the pieces that is important for SMO is the O2 interfaces. The version that is in the lab has support for O1 interfaces (basic configuration)
- b. Access to the lab to have access to the VM, talk with [David Kinsey](#) who can help to facilitate the communication to do the set up.

iii. [John Keeney](#) Non-Real Time RIC (RAN Intelligent Controller) (NONRT RIC)

iv. [SUNIL SINGH](#) RIC Applications (RICAPP)

v. [Thoralf Czichy](#) RIC Platform (RIC)

1. 11/10/21: We do last check on contribution and up to dec. 7 still accepting contributions.

vi. (TBD) O-RAN Centralized Unit (OCU)

vii. [user-30c9d](#) O-RAN Distributed Unit High (ODUHIGH)

1. 11/10/21: The feature are on track, and the dev will be completed by the next sprint but in this release not sure if we can validate the L2 features in the OSC lab then we might need to validate the e2e features in the next release.

viii. [Zhimin Yuan](#) O-RAN Distributed Unit Low (ODULOW)

ix. [Martin Skorupski](#) Operations and Maintenance (OAM)

x. [Alex Stancu](#) Simulations (SIM)

xi. [Jackie Huang](#) Infrastructure (INF)

xii. [weichen ni](#) Documentation (DOC)

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

2. New Agenda Items (New Business): New Items Submitted (+speaker) & Open Call to TOC For Additional Items
3. Planning for Next Meeting
4. Any Other Business (AOB)
5. Meeting Summary (resolutions, new action items, etc.)

2021 11 03

Recording: [zoom recording](#)

Agenda

1. Call for Scribe (minutes owner): [William DIEGO](#)
2. Roll Call & Quorum Check

Company	Contact Name	Attendance	Alternate Contact	Attendance
AT&T	Jack Murray Co-Chair	x	David Kinsey	
China Mobile	Jinri Huang Co-Chair	x	James Li	
Deutsche Telekom	David Streibl		Ondej Hudousek	
Ericsson	John-Paul Lane	x	John Keeney	
NTT DOCOMO	Masafumi Masuda		Anil Umesh	
Nokia	Juha Oravainen	x	Thoralf Czichy	
Orange	William Diego		Vincent Danno	
Radisys	Ganesh Shenbagaraman	x	Manasi Padhy	
TIM	Andrea Buldorini	x	Scarpina Salvatore	
Wind River	Bin Yang	x	Jackie Huang	

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

3. Review and Agree to Minutes of Previous Meeting
 - a. **Decision:** Minutes for TOC meeting approval: proposed by [Bin Yang](#) , seconded by [Jinri Huang](#) . The motion is approved
4. Review of Today's Agenda
 - a. No new items to add.
5. Release Votes and Approval
 - a. AAL project
 - i. **Action point:** Trishan to check if your have to sign a new agreement for the repo if TOC decides on BSD license use. Refer to minutes of previous meeting(s) for details.
 - ii. **Action point:** Jack to present the write up about the AAL project to have a vote.
 1. This was put on the table on 2021-07-07 meeting
 2. Jack: There is discussion ongoing in WG6 and we're still waiting for some aspects that discussion to be resolved. Some clarifications were made but until we get more information we leave this table for now
 3. Update on 08/04/21: This is on hold. WG6 is not having meetings due to vacations. Stage 3 specs are now being targeted for November train.
 4. Update on 08/18/21: Jack said there is no update and this item continues to be tabled.
 5. Update on 11/03/21: Still waiting for information from WG6. No update.
6. Copyright update
 1. 10/27/21:
 1. Jack updates the process is pending on O-RAN alliance's creating of related directories and the approval of CLA for SCCL before OSC can setup the repo.
 2. Doug Knisely mentioned there were some comments/questions related to drfat CLA to Stefan but got no response. need keep pushing for response
 3. Tracy: wait for confirmation of 3gpp representative about the demo type of agreement can be get from 3GPP. John Keeney mentions there is an ongoing discussion for a formal aggrement. Jack suggests to ask Brian and copy him for support.
 2. 11/03/21:
 1. Jack SSCL update : A meeting with legal team will held today. Some questions as who will be the PTL, what project will put it under this repo and also questions related to the project charter that has to be updated and then voted.
 2. Jinri : a meeting will be organised in the context of OSFG to have further discussion about SCCL for O-RAN Alliance side (Nov. 11 at 9-10PM Beijing time = 8-19AM EST = 2-3PM CET). Jinri invite the community to subscribe at the OSFG mailing list. <https://lists.o-ran-sc.org/g/toc/message/609>
7. O-RAN-related business (marketing, WG interaction, TSC/EC update etc.)
 1. 11/03/21: no update
8. Old business and Status of Open Action
 - a. "E" Release timeline.
 - i. 10/27/21:
 1. James started to reach out to PTLs to get status, and working on unit tests of network slicing use case.
 2. Will use New Jersey Lab for E Release
 3. Jack suggests to create some documentation so other people could leverage the effort, and pull in community's participation.
 - ii. 11/03/21: PR of E release is expected for the first days of the next year.

- b. OSC lab in Taiwan (Prof Ray's lab):
 - i. 10/27/21: Rittwik: Prof Ray's student will update wiki to document the networks/what they have done today.
- c. 5G Super Blueprint status - tabled for D and E, will be re-evaluated for F release.
- d. "F" Release time:
 - i. 10/27/21: Rittwik: will focus on O-Cloud usecase in F release, as well as the continuation of network slicing use case. Will reach out to PTLs to check if any more use cases. And might divide use cases between Taiwan lab and New Jersey lab.
 - ii. 11/03/21: Jack: please reach Rittwik and David to get early information into the planning process of F release.
- 9. Standing Agenda Items (Brief Status of Ongoing Activities)
 - a. Release Manager [Trishan de Lanerolle](#) /Release Planning: Weekly TOC Scheduling
 - i. 10/27/21: no update, just wait for final CLA approval to setup repos
 - b. Requirements Software Architecture Committee [user-59b16](#)
 - i. OSC lab setup still ongoing. PTP grandmaster deployment and configuration under assessment
 - ii. Radysis (Manasi) had sent HW/SW requirements for the O-CU. AP. David to check with Rich if this went through.
 - iii. 09/22/21: Open issue on PM data transfer mechanism from O-DU high. ([user-30c9d](#)/ [David Kinsey](#))
 - update on 09/29/21: still open
 - iv. 10/27/21: Rittwik: Suggest Jack reach out to Rich
 - c. OSC lab
 - i. Update on 11/03/21 [David Kinsey](#):
 1. Still working on that, we have ([Martin Skorupski](#) should confirm) the configuration to the ODU and the format of the PM report to be used to reach the SMO in order to manage the slice, the target is to close that before the end of the current release.
 2. For the integration part for the F release we are trying to get projects to build their test in OTF, so at the end of the release, integration should just be running the release test and verifying their execution and then certifying the release.
 3. We are still working on the lab, the Nokia IXR has been received but not been fully installed and integrated yet (still missing one cable). Then, We still working on the clock whether we can use Nokia clock , we are also trying to get the offered by Viavi that would also be deployed them into the into the blockhouse (building at the base of the antenna) where it can get a GPS antenna permanent one and it doesn't have to go into drift mode at all and it's one that we would have more or less access or control over. eed increase coordination because some equipments are shared as for TM500 (it includes OSC lab in Taiwan).
- a. Report out from PTL: Stand-Up & Report Out on Blockers
 - i. [James Li](#) Integration and Testing (INT)
 1. 11/03/21:
 - a. Participation on SMO meeting, and being involved on installation and related tests, it is work in progress (linked to OSC lab work).
 - b. Jack: **Action point** - Add into the E release description a check list or outline of what we're able to do.
 - ii. [Mahesh Jethanandani](#) Service Management and Orchestration (SMO)
 1. 11/03/21: Trying to drive network slice automation use case scenario: progress in terms of VES event format and support in the SMO and on ODU. On the config side, we have identified some YANG models that need to be supported.
 - iii. [John Keeney](#) Non-Real Time RIC (RAN Intelligent Controller) (NONRTRIC)
 1. 11/03/21: [John Paul Lane](#): progress continues with the items for the E release looking at the Service exposure and looking at the our life cycle management there's no blockers at this point.
 - iv. [SUNIL SINGH](#) RIC Applications (RICAPP)
 1. 11/03/21: [Matti Hiltunen](#):
 - a. RICAPP is still working on adding the new xAPP to RAN control with Mavenir being the contributor, and then integrating more of the xApps into a complete use case with the Viavi E2 to simulator.
 - b. Originally we create the repo for ONF since this is the python SDK and Facebook is working on that (they promise to contribute), but they are still trying to figure out the CLA, as soon as CLA will signed Facebook is ready to contribute. We have also requested a new repo for c++ SDK for VMware. Both of this repos are under Apache 2.0 license.
 - v. [Thoralf Czichy](#) RIC Platform (RIC)
 1. 11/03/21: We're still working on the E release features most prominently on the E2 API support. Samsung is working on those 2 new repos ric-plt/ricdms. We are in the process of changing container base image from ubuntu 18.04 to 20
 - vi. (TBD) O-RAN Centralized Unit (OCU)
 1. 11/03/21: Jack: We use a test fixture from Radisys which will support some of open interfaces. [Ganesh Shenbagaraman](#): we are ready to support this soon and exact date will be confirm and communicate next friday.
 - vii. [user-30c9d](#) O-RAN Distributed Unit High (ODUHIGH)
 1. 11/03/21: [Ganesh Shenbagaraman](#): we are on track for all the release contains. SMO integration, data models and counters, we confirm our readiness of that integration (tbc)
 - viii. [Zhimin Yuan](#) O-RAN Distributed Unit Low (ODULOW)
 - ix. [Martin Skorupski](#) Operations and Maintenance (OAM)
 1. 11/03/21:
 - a. [Alex Stancu](#) We have YANG model available for the network slicing use case there are on review on Gerrit, an also for the SIM project we will able to use those into the simulator.
 - b. [Tracy Van Brakle](#): we will be using these models within the upcoming O-RAN PoC Plugfest.
 - x. [Alex Stancu](#) Simulations (SIM)
 1. E2 simulator: lacking of resources. To check with companies which contributed so far and potential new contributors
 - xi. [Jackie Huang](#) Infrastructure (INF)
 1. For O2 interface implementation, request to create a new repo (see above), and is working on the draft of HLD.

2. 11/03/21: Now we have 2 new repos, work is in progress, most of the code implementation is expected to be done by the end of november.
- xii. [weichen ni](#) Documentation (DOC)
- xiii. (TBD) O-RAN Radio Unit (ORU)
2. New Agenda Items (New Business): New Items Submitted (+speaker) & Open Call to TOC For Additional Items
3. Planning for Next Meeting
4. Any Other Business (AOB)
5. Meeting Summary (resolutions, new action items, etc.)

2021 10 27

Recording: [zoom recording](#)

Agenda

1. Call for Scribe (minutes owner): Bin Yang
2. Roll Call & Quorum Check

Company	Contact Name	Attendance	Alternate Contact	Attendance
AT&T	Jack Murray Co-Chair	x	David Kinsey	
China Mobile	Jinri Huang Co-Chair		James Li	x
Deutsche Telekom	David Streibl	x	Ondej Hudousek	
Ericsson	John-Paul Lane		John Keeney	x
NTT DOCOMO	Masafumi Masuda	x	Anil Umesh	
Nokia	Juha Oravainen		Thoralf Czichy	
Orange	William Diego	x	Vincent Danno	
Radisys	Ganesh Shenbagaraman		Manasi Padhy	x
TIM	Andrea Buldorini	x	Scarpina Salvatore	
Wind River	Bin Yang	x	Jackie Huang	

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

3. Review and Agree to Minutes of Previous Meeting
 - a. **Decision:** Minutes for 10/20/2021 TOC meeting approval: proposed by Bin, seconded by David. The motion is approved
4. Review of Today's Agenda
 - a. Will the inclusion of SCCL under O-RAN Specification Code Project (SCP) present any issues with 3GPP adoption of SCCL at a future point in time? Clarification on this point is requested following an OSC meeting on Friday 22nd October. Added to agenda by John-Paul Lane.
 - i. 10/27/21: Jack thinks there is no answer to this question yet until more discussion with 3GPP.
 - b. Comments on the draft proposal of new CLA for SCCL - added to agenda by John-Paul Lane:
 - i. The draft proposal of new CLA for SCCL references the O-RAN SCP Technical Charter. The SCP Technical Charter refers only to the existing O-RAN software license, it does not mention SCCL. Is an update required to the SCP Technical Charter to include SCCL? Any amendments to the Technical Charter requires "a two thirds vote of the O-RAN Alliance". Not sure if this would require a vote of O-RAN EC or O-RAN board?
 - ii. 10/27/21: Jack understands the issue and will raise it up to get clarification on it.
 - iii. The CLA specifies "*This version of the O-RAN SCCL allows an entity or person to submit contributions to the O-RAN SCP, to authorize contributions submitted by an entity's designated employees to the O-RAN SCP, and to grant copyright and patent licenses thereto.*" The intention of SCCL is to grant copyright only, not patent. Does this statement in the CLA need to be clarified / qualified?
5. Release Votes and Approval
 - a. AAL project
 - i. **Action point:** Trishan to check if your have to sign a new agreement for the repo if TOC decides on BSD license use. Refer to minutes of previous meeting(s) for details.
 - ii. **Action point:** Jack to present the write up about the AAL project to have a vote.
 1. This was put on the table on 2021-07-07 meeting
 2. Jack: There is discussion ongoing in WG6 and we're still waiting for some aspects that discussion to be resolved. Some clarifications were made but until we get more information we leave this table for now
 3. Update on 08/04/21: This is on hold. WG6 is not having meetings due to vacations. Stage 3 specs are now being targeted for November train.
 4. Update on 08/18/21: Jack said there is no update and this item continues to be tabled.
 5. Update on 09/01/21: No update in the vacation period. Still waiting for guidance.
 6. Update on 09/15/21: No update. To be continued.
 7. Update on 09/22/21: No update.
 8. Update on 10/06/21: No update.
 9. Update one 10/13/21: No update.
6. Copyright update
 1. Update from Jack (08/25/21): The SCCL license is posted on the O-RAN website. A separate CLA is required for contribution under SCCL license.
 2. Thoralf asked who is putting the first copy of code from specifications in the repository. Jack confirmed any OSC participant can initiate.

3. CLA draft is ready and is due for approval from O-RAN. Trishan informed it takes 2 weeks for implementation of new CLA.
4. Update from Jack (09/01/21): still waiting for feedback from O-RAN Alliance about the material to be used first.
5. 09/15/21: Jinri provided to O-RAN EC a list of examples for candidate material to be shared under SCCL license.
6. 09/29/21: Jack and Jinri will synchup on SCCL licence process with O-RAN legal a dedicated meeting
7. 10/06/21: Jinri shares updates: He had meeting with Hank and some other players to discuss SCCL, detail in slices (<https://lists.o-ran-sc.org/g/discuss/message/368>), will continue the discussion offline
8. 10/20/21: Jack:
 1. talked over meetings yesterday which clarified how to proceed and answered a bunch of questions. The first step is to get source file setup in O-RAN alliance , put license headers to each of those files, then they will be available for OSC downloading to OSC repo under SCCL licenses (managed as oscp license as part of o-ran-sc specification code project). people could modify them based on code management procedures.
 2. The information has been posted on o-ran alliance website and reviewed yesterday, now waiting for source materials and final approval of CLA which has been sent out and get feedback by legal team.
 3. logistics issues are open: 1, who will be PTL/Committers of this repo to manage the changes of these files, we have to setup a structure for that repo to manage the file changes; Initial thought is one repo structur for SCCL code, and INT project's PTL /Committers who will manage the changes of that repo.
 4. Jack will ask Stefan to send out the CLA today.
9. 10/27/21:
 1. Jack updates the process is pending on O-RAN alliance's creating of related directories and the approval of CLA for SCCL before OSC can setup the repo.
 2. Doug Knisely mentioned there were some comments/questions related to drfat CLA to Stefan but got no response. need keep pushing for response
 3. Tracy: wait for confirmation of 3gpp representative about the demo type of agreement can be get from 3GPP. John Keeney mentions there is an ongoing discussion for a formal aggrement. Jack suggests to ask Brian and copy him for support.
7. O-RAN-related business (marketing, WG interaction, TSC/EC update etc.)
 1. July train has passed IPR review. November train deadline will be slightly shifted to November 24th (WGs approval)
 2. vF2F in October is cancelled. Next (v)F2F will be in February 2022.
 3. Budget review before the next O-RAN board ([Trishan de Lanerolle](#)). If additional resources are needed, to be raised and discussed before submission to EC
 4. 10/06/21: current focus is to prepare for the board meeting before the end of this month
 5. 10/20/21:
 1. Jinri updates on preparation of board meeting at the end of this month: consolidate highlight w.r.t. OSC E release collecting from PTLs, will send it out tomorrow morning to get review from the team.
 2. Jack suggests to add update about PTL changes on OSC projects.
 6. 10/27/21:
 1. Jinri sent out slides for team reviewing: <https://lists.o-ran-sc.org/g/toc/message/605>
 2. Tracy, Jack: no update, just wait for final details of information for the board meeting
8. Old business and Status of Open Action
 - a. "E" Release timeline.
 - i. 10/20/21: David: no update yet
 - ii. 10/27/21:
 1. James started to reach out to PTLs to get status, and working on unit tests of network slicing use case.
 2. Will use New Jersey Lab for E Release
 3. Jack suggests to create some documentation so other people could leverage the effort, and pull in community's participation.
 - b. OSC lab in Taiwan (Prof Ray's lab):
 - i. Update on 08/25/21: Prof Ray talking to Intel and Viavi. Division of work is not complete till lab is up.
 - ii. Potentially integration work can happen in Taiwan lab when sprints complete. By end of the release, they can package it all.
 - iii. Jack suggested a gradual progression in Taiwan lab with a few modules or blocks being integrated first.
 - iv. Update on 09/01/21. Rittwik: Prof Ray got in touch with some PTLs. PTLs interested in collaboration may get back to to coordinate with Prof. Ray
 - v. Update on 09/08/21. Rittwik: work is still ongoing on lab setup.
 - vi. 10/20/21: David: no update yet
 - vii. 10/27/21: Rittwik: Prof Ray's student will update wiki to document the networks/what they have done today.
 - c. 5G Super Blueprint status - tabled for D and E, will be re-evaluated for F release.
 - d. "F" Release timeline
 - i. 10/20/21:
 1. David: F release planning begins out in Jan. Equipment is not arrived yet, tried to reach out to ramsey but no response.
 2. Jack: will reach out to Ramsey in a meeting today to cover it there.
 - ii. 10/27/21:
 1. Rittwik: will focus on O-Cloud usecase in F release, as well as the continuation of network slicing use case. Will reach out to PTLs to check if any more use cases. And might divide use cases between Taiwan lab and New Jersey lab.
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 - update on 09/29/21: still open
 - iv. 10/27/21: Rittwik: Suggest Jack reach out to Rich
 - c. OSC lab
 - i. Update on 10/13/21. [David Kinsey](#) : Core emulator and UE emulator will be called back by vendors to support other activities (O-RAN Plugfest), which impacts MVP since not able to establish core/radio connection. The integration activity for release D and E will be blocked. The clearance to purchase the front haul gateway is ready, the purchasing of the equipment is ongoing.
- a. Report out from PTL: Stand-Up & Report Out on Blockers

- i. [James Li](#) Integration and Testing (INT)
 - ii. [Mahesh Jethanandani](#) Service Management and Orchestration (SMO)
 - iii. [John Keeney](#) Non-Real Time RIC (RAN Intelligent Controller) (NONRTIC)
 - iv. [SUNIL SINGH](#) RIC Applications (RICAPP)
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 - ix. [Martin Skorupski](#) Operations and Maintenance (OAM)
 - x. [Alex Stancu](#) Simulations (SIM)
1. NETCONF call home procedure was implemented
 2. waiting for YANG model for slicing to be provided in order to start the implementation
 3. E2 simulator: lacking of resources. To check with companies which contributed so far and potential new contributors
- xi. [Jackie Huang](#) Infrastructure (INF)
 1. Upgrade most of the components from Starlingx to align with the latest release 5.0, and to support both kubernetes and openstack as the infrastructure platform
 2. Now most of those components are in a standalone layer meta-starlingx and is has been moved to StarlingX community, which is used as the upstream layer for INF project, so for now, most of the development activity is actually happen in StarlingX community
 3. we have completed and verified for AIO-SX with kubernetes deployment, and AIO-DX deployment is in testing and bug fixing
 4. For O2 interface implementation, request to create a new repo (see above), and is working on the draft of HLD.
 - xii. [weichen ni](#) Documentation (DOC)
 - xiii. (TBD) O-RAN Radio Unit (ORU)
2. New Agenda Items (New Business): New Items Submitted (+speaker) & Open Call to TOC For Additional Items
 3. Planning for Next Meeting
 - a. Next meeting will be chaired by Jack. Scribe in November will be William
 - b. Jack: PTLs please update your status on wiki and will go through the stand-up & report out process on next week's meeting.
 4. Any Other Business (AOB)
 5. Meeting Summary (resolutions, new action items, etc.)

2021 10 20

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 6. Update on 09/15/21: No update. To be continued.
 7. Update on 09/22/21: No update.
 8. Update on 10/06/21: No update.
 9. Update one 10/13/21: No update.
- b. INT PTL
- i. Sept. 30 2021: James from China Mobile Technology (USA) self nominated as INT PTL role [View/Reply Online \(#576\)](#)
 1. Update on 10/06/21: Jinri will check with Jack on how to move on
 - ii. Oct. 12 2021: Simone Crosta from HCL expressed interest in the INT PTL Role <https://lists.o-ran-sc.org/g/toc/message/588>
 - iii. Update on 10/13/21: Go through PTL election process, candidates are James and Simone, who should send email to elaborate their contribution if elected as INT PTL by Friday, Trishan will setup a vote for TOC members to vote before next weekly meeting.
 - iv. Update on Oct./20/21:
 1. statements of contributions from candidates has been sent out to mail list: James(<https://lists.o-ran-sc.org/g/toc/message/596>), Simone Crosta (<https://lists.o-ran-sc.org/g/toc/message/599>)
 2. opavote link to "Vote to appoint PTL for Integration Project" sent out.
 3. James from China Mobile Technology (USA) has been elected as INT PTL
- c. Modeling change
- i. Use of two 3GPP YANG models for the closed-loop network slicing automation use case in O-RAN SC. [View/Reply Online \(#364\)](#)
 1. Can use it in built image, but not in source code repo, neither in documentation
 2. Jinri will arrange a meeting with Hank and Stefane to clarify this kind of questions
 3. Update on 10/13/21:
 - a. Jinri updates progress: 1) share sccl collateral via email, 2) reach out to Hand and Stefane, no response yet, 3) share initial understanding of where we are: can be built into image but not into code repo, neither in docs. need guidance from LFN. Try to contact Marine who manage these YANG models but no response.
 - b. Jack walks through SCCL docs
 4. Update on 10/20/21:
 - a. Jack: 3GPP has not adopted SCCL so 3GPP models are not covered by SCCL. all model has to be pulled as part of building process and can be redistributed along with built binaries.
 - ii. Extension to the API freeze deadline for the E-release based on the outcome of the above item
 1. Mahesh requests 3 weeks extension for API freeze to publish API and get consensus with John
- d. for approval (raised by Thoralf): ric-plt/ricdms repo: <https://lists.o-ran-sc.org/g/toc/message/603> Approved
6. Copyright update
1. Update from Jack (08/25/21): The SCCL license is posted on the O-RAN website. A separate CLA is required for contribution under SCCL license.
 2. Thoralf asked who is putting the first copy of code from specifications in the repository. Jack confirmed any OSC participant can initiate.
 3. CLA draft is ready and is due for approval from O-RAN. Trishan informed it takes 2 weeks for implementation of new CLA.
 4. Update from Jack (09/01/21): still waiting for feedback from O-RAN Alliance about the material to be used first.
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 3. logistics issues are open: 1, who will be PTL/Committers of this repo to manage the changes of these files, we have to setup a structure for that repo to manage the file changes; Initial thought is one repo structur for SCCL code, and INT project's PTL /Committers who will manage the changes of that repo.
 4. Jack will ask Stefan to send out the CLA today.
7. O-RAN-related business (marketing, WG interaction, TSC/EC update etc.)
1. July train has passed IPR review. November train deadline will be slightly shifted to November 24th (WGs approval)
 2. vF2F in October is cancelled. Next (v)F2F will be in February 2022.
 3. Budget review before the next O-RAN board ([Trishan de Lanerolle](#)). If additional resources are needed, to be raised and discussed before submission to EC
 4. 10/06/21: current focus is to prepare for the board meeting before the end of this month
 5. 10/20/21:
 1. Jinri updates on preparation of board meeting at the end of this month: consolidate highlight w.r.t. OSC E release collecting from PTLs, will send it out tomorrow morning to get review from the team.
 2. Jack suggests to add update about PTL changes on OSC projects.
8. Old business and Status of Open Action
- a. "E" Release timeline.
 - i. 10/20/21: David: no update yet
 - b. OSC lab in Taiwan (Prof Ray's lab):
 - i. Update on 08/25/21: Prof Ray talking to Intel and Viavi. Division of work is not complete till lab is up.
 - ii. Potentially integration work can happen in Taiwan lab when sprints complete. By end of the release, they can package it all.
 - iii. Jack suggested a gradual progression in Taiwan lab with a few modules or blocks being integrated first.
 - iv. Update on 09/01/21. Rittwik: Prof Ray got in touch with some PTLs. PTLs interested in collaboration may get back to to coordinate with Prof. Ray
 - v. Update on 09/08/21. Rittwik: work is still ongoing on lab setup.
 - vi. 10/20/21: David: no update yet
 - c. 5G Super Blueprint status - tabled for D and E, will be re-evaluated for F release.

- d. "F" Release timeline
 - i. 10/20/21:
 - 1. David: F release planning begins out in Jan. Equipment is not arrived yet, tried to reach out to ramsey but no response.
 - 2. Jack: will reach out to Ramsey in a meeting today to cover it there.
- 9. Standing Agenda Items (Brief Status of Ongoing Activities)
 - a. Release Manager [Trishan de Lanerolle](#) /Release Planning: Weekly TOC Scheduling
 - b. [user-59b16](#) Requirements Software Architecture Committee
 - i. OSC lab setup still ongoing. PTP grandmaster deployment and configuration under assessment
 - ii. Radsys (Manasi) had sent HW/SW requirements for the O-CU. AP. David to check with Rich if this went through.
 - iii. 09/22/21: Open issue on PM data transfer mechanism from O-DU high. ([user-30c9d/ David Kinsey](#))
 - update on 09/29/21: still open
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 - i. Update on 10/13/21. [David Kinsey](#) : Core emulator and UE emulator will be called back by vendors to support other activities (O-RAN Plugfest), which impacts MVP since not able to establish core/radio connection. The integration activity for release D and E will be blocked. The clearance to purchase the front haul gateway is ready, the purchasing of the equipment is ongoing.
 - a. Report out from PTL: Stand-Up & Report Out on Blockers
 - i. (TBD) Integration and Testing (INT)
 - 1. [James Li](#) indicates interest in contributing/leading INT project. Jack proposes to send the information to the TOC reflector and start a discussion among the interested companies.
 - ii. [Mahesh Jethanandani](#) Service Management and Orchestration (SMO)
 - iii. [John Keeney](#) Non-Real Time RIC (RAN Intelligent Controller) (NONRTRIC)
 - iv. [SUNIL SINGH](#) RIC Applications (RICAPP)
 - v. [Thoralf Czichy](#) RIC Platform (RIC)
 - vi. (TBD) O-RAN Centralized Unit (OCU)
 - vii. [user-30c9d](#) O-RAN Distributed Unit High (ODUHGH)
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 - ix. [Martin Skorupski](#) Operations and Maintenance (OAM)
 - x. [Alex Stancu](#) Simulations (SIM)
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 - 1. Upgrade most of the components from Starlingx to align with the latest release 5.0, and to support both kubernetes and openstack as the infrastructure platform
 - 2. Now most of those components are in a standalone layer meta-starlingx and is has been moved to StarlingX community, which is used as the upstream layer for INF project, so for now, most of the development activity is actually happen in StarlingX community
 - 3. we have completed and verified for AIO-SX with kubernetes deployment, and AIO-DX deployment is in testing and bug fixing
 - 4. For O2 interface implementation, request to create a new repo (see above), and is working on the draft of HLD.
 - xii. [weichen ni](#) Documentation (DOC)
 - xiii. (TBD) O-RAN Radio Unit (ORU)
 - 2. New Agenda Items (New Business): New Items Submitted (+speaker) & Open Call to TOC For Additional Items
 - 3. Planning for Next Meeting
 - a. Next meeting will be chaired by Jack. Scribe in October will be Bin Yang (Windriver)
 - 4. Any Other Business (AOB)
 - 5. Meeting Summary (resolutions, new action items, etc.)

2021 10 13

Recording: [zoom recording](#)

Agenda

1. Call for Scribe (minutes owner): Bin Yang
2. Roll Call & Quorum Check

Company	Contact Name	Attendance	Alternate Contact	Attendance
AT&T	Jack Murray Co-Chair	x	David Kinsey	
China Mobile	Jinri Huang Co-Chair	x	James Li	
Deutsche Telekom	David Streibl	x	Ondej Hudousek	
Ericsson	John-Paul Lane	x	John Keeney	
NTT DOCOMO	Masafumi Masuda	x	Anil Umesh	
Nokia	Juha Oravainen	x	Thoralf Czichy	
Orange	William Diego		Vincent Danno	
Radisys	Ganesh Shenbagaraman		Manasi Padhy	x

TIM	Andrea Buldorini	x	Scarpina Salvatore	
Wind River	Bin Yang	x	Jackie Huang	

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

3. Review and Agree to Minutes of Previous Meeting

- a. **Decision:** Minutes for 10/06/2021 TOC meeting approval: proposed by Bin, seconded by John-Paul. The motion is approved

4. Review of Today's Agenda

5. Release Votes and Approval

a. AAL project

- i. **Action point:** Trishan to check if you have to sign a new agreement for the repo if TOC decides on BSD license use. Refer to minutes of previous meeting(s) for details.
- ii. **Action point:** Jack to present the write up about the AAL project to have a vote.
 1. This was put on the table on 2021-07-07 meeting
 2. Jack: There is discussion ongoing in WG6 and we're still waiting for some aspects that discussion to be resolved. Some clarifications were made but until we get more information we leave this table for now
 3. Update on 08/04/21: This is on hold. WG6 is not having meetings due to vacations. Stage 3 specs are now being targeted for November train.
 4. Update on 08/18/21: Jack said there is no update and this item continues to be tabled.
 5. Update on 09/01/21: No update in the vacation period. Still waiting for guidance.
 6. Update on 09/15/21: No update. To be continued.
 7. Update on 09/22/21: No update.
 8. Update on 10/06/21: No update.
 9. Update one 10/13/21: No update.

b. INT PTL

- i. Sept. 30 2021: James from China Mobile Technology (USA) self nominated as INT PTL role [View/Reply Online \(#576\)](#)
 1. Update on 10/06/21: Jinri will check with Jack on how to move on
- ii. Oct. 12 2021: Simone Crosta from HCL expressed interest in the INT PTL Role <https://lists.o-ran-sc.org/g/toc/message/588>
- iii. Update on 10/13/21: Go through PTL election process, candidates are James and Simone, who should send email to elaborate their contribution if elected as INT PTL by Friday, Trishan will setup a vote for TOC members to vote before next weekly meeting.

c. Modeling change

- i. Use of two 3GPP YANG models for the closed-loop network slicing automation use case in O-RAN SC. [View/Reply Online \(#364\)](#)
 1. Can use it in built image, but not in source code repo, neither in documentation
 2. Jinri will arrange a meeting with Hank and Stefane to clarify this kind of questions
 3. Update on 10/13/21:
 - a. Jinri updates progress: 1) share sccl collateral via email, 2) reach out to Hank and Stefane, no response yet, 3) share initial understanding of where we are: can be built into image but not into code repo, neither in docs. need guidance from LFN. Try to contact Marine who manage these YANG models but no response.
 - b. Jack walks through SCCL docs
- ii. Extension to the API freeze deadline for the E-release based on the outcome of the above item
 1. Mahesh requests 3 weeks extension for API freeze to publish API and get consensus with John

6. Copyright update

1. Update from Jack (08/25/21): The SCCL license is posted on the O-RAN website. A separate CLA is required for contribution under SCCL license.
2. Thoralf asked who is putting the first copy of code from specifications in the repository. Jack confirmed any OSC participant can initiate.
3. CLA draft is ready and is due for approval from O-RAN. Trishan informed it takes 2 weeks for implementation of new CLA.
4. Update from Jack (09/01/21): still waiting for feedback from O-RAN Alliance about the material to be used first.
5. 09/15/21: Jinri provided to O-RAN EC a list of examples for candidate material to be shared under SCCL license.
6. 09/29/21: Jack and Jinri will synchup on SCCL licence process with O-RAN legal a dedicated meeting
7. 10/06/21: Jinri shares updates: He had meeting with Hank and some other players to discuss SCCL, detail in slices (<https://lists.o-ran-sc.org/g/discuss/message/368>), will continue the discussion offline

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d. "F" Release timeline

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

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- b. [user-59b16](#) Requirements Software Architecture Committee

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2021 10 06

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Wind River	Bin Yang	x	Jackie Huang	

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

3. Review and Agree to Minutes of Previous Meeting
 - a. **Decision:** Minutes for 09/29/2021 TOC meeting approval: proposed by Andrea, seconded by David. The motion is approved
4. Review of Today's Agenda
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