

Project meetings

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Meeting Info

RIC project meetings are open to the public and held on Tuesdays at 2pm UTC (winter) and 1pm UTC (summer). [World Time Zone Map](#)

Zoom 1 Info:

- Join from PC, Mac, Linux, iOS, or Android: <https://zoom.us/j/9644759813>
- Meeting ID for dial-in: **9644759813**

UTC-time	every 2nd Tuesday, check from calendar	https://zoom.us/j/9644759813
New York (EDT / UTC-4 during DST (-5 in the winter))	every 2nd Tuesday, check from calendar	+1 669 900 6833 // +1 646 558 8656 // 855 880 1246 (Toll Free) // 877 369 0926 (Toll Free)
Paris (CEST / UTC+1 in the winter (+2 during DST))	every 2nd Tuesday, check from calendar	+33 7 5678 4048 // +33 1 8288 0188 // 805 082 588 (Toll Free)
Beijing (CST / UTC+8)	every 2nd Tuesday, check from calendar	+86 10 87833177 // +86 10 53876330 // 400 616 8835 (Toll Free) // 400 669 9381 (Toll Free)
Tokyo (JST / UTC+9)	every 2nd Tuesday, check from calendar	+81 524 564 439 // +81 3 4578 1488 // 0 800 100 5040 (Toll Free)
Helsinki (EEST / UTC+2 in the winter (+3 during DST))	every 2nd Tuesday, check from calendar	+358 341092129
Delhi (IST // UTC +5:30)	every 2nd Tuesday, check from calendar	TODO
Other international numbers	World Time Zone Map	International numbers available: https://zoom.us/u/acyy3hylQi

2024-04-23

Recording: [zoom link](#)

1. Every time: Check rule RC-4 ([link](#)) that all L or XL commits of the last two weeks have also new unit tests. This is our policy. [link-to-reviews](#) ([gerri t filter instructions](#) // [gerri t-shirt-sizing](#)).
 - a. Last checked on (end of I release)
 - i. TODO
2. every second time: Review **code coverage stats** and **blocker code smells**
 - a. We take a look at the two links in the beginning of this page: [Code coverage reports](#)..
 - b. The list below is only working reports // Anybody volunteering to work with LF on making the code coverage CI to work again (there's still the old JVM version)
 - c. Thoralf did this last on 2023-12-14 as part of release notes: we did not do this this time
3. Every time: Check if there are new bug reports in JIRA: [link](#)
 - a. **RIC-1057** gNB unable to connect during high amount of Subscription Requests
 - b. **RIC-1056** Crashing e2mgr after sending high amount of Subscription Requests
 - c. **RIC-1055** Unrestricted Registration of RMR Routing Information by xApp
 - d. **RIC-1054** Kong pod is in crash loopback due to Ingress controller container is not coming up in 1.28 k8s installation
 - e. **RIC-1052** Not able to install k8s and helm with Existing Ric installation shell script in document - **Done, still some issues are seen, to further check and report issue.**
 - f. **RIC-1051** Problems with deploying xAPPS for the Near-RT RIC - RELEASE H&I - **To be checked by Himanshu**

- g. **RIC-1049** apt repository no longer supports Kubernetes version 1.16.0 in ubuntu 20.04 - **To be assigned to Sunil, duplicate of 1052 (DONE)**
- h. **RIC-1047** crash in E2T metric increment code - **WIP**
- i. **RIC-1045** A1 mediator is in crash loopback state for H-Release And I-Release (HCL team can fix) **DONE** (was a mismatch between ric-dep and image versions)
- j. **RIC-1044** Potential Missing Array Size Checks Leading to Crashes in e2mgr
- k. **RIC-1043** Crash in E2T buildPrometheusList Function - **WIP**
- l. **RIC-1042** Can't register xApp
- m. **RIC-1041** Frequent Pod Eviction in Near-RT RIC Due to Ephemeral-Storage Resource Limitation - Mostly fixed, To be confirmed by Abhijit.
- n. **RIC-1031** Data model is not compliant with latest A1 spec Naman (planned to start work in next week)
- o. **RIC-1032** RIC-1035 - we continue with this under RIC-1035 (discussed with Abhijit in the project meeting) Thoralf needs to take next step here (see also Abhijit's comment in RIC-1035 and in review)
- p. **RIC-1025** memory leak in routing manager
- q. **RIC-1017** xapp-frame - xapp-frame may not be able to successfully subscribe to messages
- r. **RIC-1016** e2t sctp_params structure may not be initialized properly Nokia
- s. **RIC-1015** e2t too High default message size. Nokia
- t. **RIC-1014** e2t potential race condition in the `listener` function due to multiple `listener` threads. Nokia
- u. **RIC-1013** e2t e2term pod does not become ready. Possible stack/heap corruption
- v. **RIC-1002** (Nokia fixes) Abnormal signaling process cause E2Term crash (this could be a security issue) **DONE**
- w. **RIC-1001** CVE-2023-41627 RMR service should verify route tables - Alexandre will take a look (note that this related to unimplemented feature RIC-1007)
- x. **RIC-965** RMR wormhole connections uses stale endpoints to make connections
- y. **RIC-921** fix UT test case in e2mgr to stub time (leftover from review <https://gerrit.o-ran-sc.org/r/c/ric-plt/e2mgr/+8493>)
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- ae. **RIC-864** xapp-frame-cpp CI does not use Dockerfile and therefore uses Ubuntu18.04 (not 20.04) in build
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- ag. **RIC-852** Intermittent Issue with E2T: While setting up E2 setup request and response.
- ah. **RIC-837** RMR is not forwarding messages from E2T to E2M
- ai. **RIC-835** 2021-12-07 no news from Viktor
- aj. fixed:
- 4. James: updates?
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 - i. was at OSC-OAI conference
 - ii. could start using team accounts to test beds from Colosseum (NU) and ARA
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 - d. 2024-02-13: thinking about demos for f-2-f (in discussion with Bimu)
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 - f. 2024-03-26: Unavailable today.
 - g. 2024-04-23:
- 5. Prashant's work in near-RT RIC(subteam-p)
 - a. 2023-08-22, 2023-09-26, 2023-11-07: could not participate
 - b. 2024-02-13, 2024-03-12, 2024-03-26, 2024-04-09, 2024-04-23: no news
- 6. Sunil updates (subteam-h)?
 - a. 2023-09-12: can give update next time. Maybe 2 or 3 items to work on.
 - b. 2023-11-07: Not in the call today
 - c. 2023-11-21: no updates. Difficult to find engineers working on this.
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 - g. 2024-02-13: working on RIC subscription delete testing
 - h. 2024-03-12: Implementation completed, facing issues in code submission.
 - i. 2024-03-26: Working on **RIC-1049**, documentation will also be made - Done
 - j. 2024-03-09: Absent
 - k. 2024-04-23: Not much updates.
- 7. Subhash/Naman updates (subteam-s) ?
 - a. 2023-12-05: Naman gave an update on status of Samsung items
 - b. 2024-01-16: Naman updated readme (still to merged) on how to deploy RIC using operators.
 - c. 2024-01-30, 2024-02-13: no news, but still needs to work on **RIC-1031**
 - d. 2024-03-12: RIC-1031 - Needs more time to complete, To start working on A1 mediator integration with Non RealTime RIC
 - e. 2024-03-26: Continuing on RIC-1031, Working on **RIC-1048** (analysis on RMR scaling, design to be worked upon)
 - f. 2024-03-09, 2024-04-23: Not available
- 8. Abhijit updates (subteam-ag) ?
 - a. 2023-10-24:
 - i. Abhijit and James release new base image: docker pull nexus3.o-ran-sc.org/10002/o-ran-sc/bldr-ubuntu22-c-go:0.1.0 still to be made 1.0.0 Reminder [Abhijit Gadgil](#)

- ii. no progress in review on the plain helm chart based deployment in <https://gerrit.o-ran-sc.org/r/c/ric-plt/ric-depl/+11743> to be merged by [Thoralf Czichy](#)
 - iii. 1 and 2 of **RIC-1004** still be finalized this week. Rest to be moved to a new item.
 - iv. Sunil asked about the Rust xApp ready with basic hello world scenario. Documentation is best placed into readme *and* confluence.
 - b. 2024-01-16, 2024-01-30: No news.
 - c. 2024-02-13: continues work on xapp framework rust, incl. metric support
 - d. 2024-03-12: No news.
 - e. 2024-03-26: Implementation done , testing pending for **xapp framework rust, incl. metric support**
 - f. 2024-03-09: Not available.
 - g. 2024-03-23: Interested to work on 1056,1057 in coming weeks, after rust framework is tested. **RIC-1006** done, **RIC-1007** move to K, **RIC-1028**- will be taken up next. To give demo on rust-framework 07-05-2024.
9. Cap Gemini updates (subteam-cg)?
- a. We agreed to come back to repo creation for phase 2 (ricapp part) of conflict manager in 1H2024
 - b. 2024-01-16: Ashish presented the design of conflict manager, first phase: [link to slideset](#)
 - c. 2024-03-26,2024-03-09,2024-04-23: unavailable.
10. Himanshu (subteam-gs) would like to work on RIC-963
- a. 2023-12-05: RIC-963 seems to be ready. Himanshu still wants to test this with unordered IEs. Requires a minor addition in ric-dep repo for new config parameter.
 - b. 2024-01-16: RIC-963 ready and merged. New review for RIC-1030 for final changes on checking (or not checking) IE order in additional messages.
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 - d. 2024-03-26: Assigned **RIC-1043,1044,1047**. Will provide updates next week. length of IE > 1024 in RIC_ACTION_DEFINITION causing issue in submgr - Sandeep to check if Jira needs to be raised. RIC-1051- Himanshu looking into it.
 - e. 2024-03-09: No updates on **RIC-1043,1044,1047**. Amit will contribute to this project.
 - f. 2024-04-23: Not present
11. Dhiraj (subteam-r)
- a. 2023-12-05: moved the IPv6 item to J release
 - b. 2024-01-16: approval for changes to be committed now obtained. IPv6-related commits expected over the next weeks.
 - c. 2024-01-26, 2024-04-09,2024-04-23: no news.
12. Alexandre (subteam-utfpr)
- a. 2023-08-29: Alexandre working on RIC-989 and RIC-991. Will also take a look at RIC-1001
 - b. 2023-09-26: subscription message issue with encoding E2SM parts. A. will send e-mail to Thoralf
 - c. 2024-03-12: RIC-989 and RIC-991 closed. RIC-1001 would need support from ric-plt/rtrmgr, will send email to Abdulwahid. xapp-frame (C++) changes for xapp registration locally completed. Jira will be raised
 - d. 2024-03-26,2024-04-09,2024-04-23: No news.
13. Nokia (subteam-n)
- a. RIC-997 postponed to J
 - b. 2024-02-13: Thoralf leaving Nokia/PTL role. Role is open for applications. Nokia nominated Abdulwahid.
14. ORAN-SC half day workshop, San Jose, CA on April 29th - Any volunteers to make on-site demo of NEAR RT RIC - James will take it up.
- a. 2024-03-26: New nomination awaited from TOC.
 - b. 2024-04-09: The presentation of NEAR RT RIC would be handled by someone else(not James)
15. J release
- a. 2024-02-13: Naman's input
 - i. no Jira tickets yet, but would like to focus on
 - 1. K8S operator for day 2 operations, like scale-in and scale-out (but requires some thoughts on messaging) : **RIC-1048**
 - b. I release theme for near-rt RIC was "RIC Platform Enhancements". What's it going to be for J?
 - i. Thoralf's proposal based on current Jira list: **"Make the platform more robust in handling E2AP, conflicts and A1"**
 - c. We mark items that you are >90% sure ("committed") to work on during 1H2024 with your label, like subteam-n (Nokia), subteam-s (Samsung) and so on. Items that are proposed for J release but not "committed" we mark with subteam-n-proposal, subteam-s-proposal and so on. To ease usage I created a couple of filters for follow up. See §7.3 from [Jira usage conventions](#).
 - i. committed (90% sure) and tentative (90...30% sure) items: [subteam-n](#), [subteam-h](#), [subteam-p](#), [subteam-s](#), [subteam-utfpr](#), [subteam-am-ag](#), [subteam-cg](#), [subteam-r](#), [subteam-gs](#)
 - ii. committed items only: [all teams \(committed\)](#) and [all teams \(committed + tentative\)](#).
 - iii. items that are known to require work, but are currently not in J release: [link](#), to include k8s version upgrade, clean up of pending issues.
 - a. input for release candidates: [leftovers](#) and [generally open items](#), RSAC
 - b. Sprint dates
 - i. Sprint J release dev sprint 1: Feb-19 to Mar-10
 - ii. Sprint J release dev sprint 2: Mar-11 to Mar-31
 - iii. Sprint J release dev sprint 3: Apr-1 to Apr-21
 - iv. Sprint J release dev sprint 4: Apr-22 to May-12 (last planned development sprint)
 - v. Sprint J release dev sprint 5: May-13 to Jun-2 (only for unplanned last-minute development items)
17. RICAPP agenda: [RICAPP Meetings](#).

2024-04-09

Recording: [near_rt_ric_09_04-2024.mp4](#)

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 - b. 2024-04-09: The presentation of NEAR RT RIC would be handled by someone else(not James)
- 15. J release
 - a. 2024-02-13: Naman's input
 - i. no Jira tickets yet, but would like to focus on
 - 1. K8S operator for day 2 operations, like scale-in and scale-out (but requires some thoughts on messaging) : **RIC-1048**
 - b. I release theme for near-rt RIC was "RIC Platform Enhancements". What's it going to be for J?
 - i. Thoralf's proposal based on current Jira list: **"Make the platform more robust in handling E2AP, conflicts and A1"**
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- 17. RICAPP agenda: [RICAPP Meetings](#).

2024-03-26

Recording: [link to zoom recording](#)

1. Every time: Check rule RC-4 ([link](#)) that all L or XL commits of the last two weeks have also new unit tests. This is our policy. [link-to-reviews](#) ([gerrit filter instructions](#) // [gerrit t-shirt-sizing](#)).
 - a. Last checked on (end of I release)
 - i. TODO
2. every second time: Review **code coverage stats** and **blocker code smells**
 - a. We take a look at the two links in the beginning of this page: [Code coverage reports](#)..

- b. The list below is only working reports // Anybody volunteering to work with LF on making the code coverage CI to work again (there's still the old JVM version)
 - c. Thoralf did this last on 2023-12-14 as part of release notes: we did not do this this time
- 3. Every time: Check if there are new bug reports in JIRA: [link](#)
 - a. **RIC-1051** Problems with deploying xAPPs for the Near-RT RIC - RELEASE H&I - **To be checked by Himanshu**
 - b. **RIC-1049** apt repository no longer supports Kubernetes version 1.16.0 in ubuntu 20.04 - **To be assigned to Sunil**
 - c. **RIC-1047** crash in E2T metric increment code
 - d. **RIC-1045** A1 mediator is in crash loopback state for H-Release And I-Release (HCL team can fix) **DONE** (was a mismatch between ric-dep and image versions)
 - e. **RIC-1044** Potential Missing Array Size Checks Leading to Crashes in e2mgr
 - f. **RIC-1043** Crash in E2T buildPrometheusList Function
 - g. **RIC-1042** Can't register xApp
 - h. **RIC-1041** Frequent Pod Eviction in Near-RT RIC Due to Ephemeral-Storage Resource Limitation
 - i. **RIC-1031** Data model is not compliant with latest A1 spec Naman (planned to start work in next week)
 - j. **RIC-1032** RIC-1035 - we continue with this under RIC-1035 (discussed with Abhijit in the project meeting) Thoralf needs to take next step here (see also Abhijit's comment in RIC-1035 and in review)
 - k. **RIC-1025** memory leak in routing manager
 - l. **RIC-1017** xapp-frame - xapp-frame may not be able to successfully subscribe to messages
 - m. **RIC-1016** e2t sctp_params structure may not be initialized properly Nokia
 - n. **RIC-1015** e2t too High default message size. Nokia
 - o. **RIC-1014** e2t potential race condition in the `listener` function due to multiple `listener` threads. Nokia
 - p. **RIC-1013** e2t e2term pod does not become ready. Possible stack/heap corruption
 - q. **RIC-1002** (Nokia fixes) Abnormal signaling process cause E2Term crash (this could be a security issue) **DONE**
 - r. **RIC-1001** CVE-2023-41627 RMR service should verify route tables - Alexandre will take a look (note that this related to unimplemented feature RIC-1007)
 - s. **RIC-965** RMR wormhole connections uses stale endpoints to make connections
 - t. **RIC-921** fix UT test case in e2mgr to stub time (leftover from review <https://gerit.o-ran-sc.org/r/c/ric-plt/e2mgr/+8493>)
 - u. **RIC-915** dms_cli for installing xapp not working (raised by James)
 - v. **RIC-905** new (from PW) Issue in reporting the CLEAR ALARM as VES EVENT
 - w. **RIC-901** new (from PW) BUG FIX IN 'Get ALARM INFO' NETCONF COMMAND
 - x. **RIC-896** xapps sending same msg type and sub id fails - details to be clarified
 - y. **RIC-894** long idle period (days) causes RMR connection breaks
 - z. **RIC-864** xapp-frame-cpp CI does not use Dockerfile and therefore uses Ubuntu18.04 (not 20.04) in build
 - aa. **RIC-857** sporadically RMR takes multiple minutes before being "ready"
 - ab. **RIC-852** Intermittent Issue with E2T: While setting up E2 setup request and response.
 - ac. **RIC-837** RMR is not forwarding messages from E2T to E2M
 - ad. **RIC-835** 2021-12-07 no news from Viktor
 - ae. fixed:
- 4. James: updates?
 - a. 2023-11-21
 - i. was at OSC-OAI conference
 - ii. could start using team accounts to test beds from Colosseum (NU) and ARA
 - iii. discussed with Bimo (Taiwan lab) on pair-wise testing
 - iv. discussed with John Keeney (non-rt ric plt) and discussed A1 pairwise testing. Asked from Sunil what's best A1-policy using xApp. None exists on open-src side. Naman commented that for Policy the hello-world xApp (C++ likely) could be used (just requires RMR route for policy type (must match the policy type that is created via curl)). James to contact Naman if help needed.
 - b. 2024-01-16: TM-500 in Taiwan lab is again available (discussions with Intel on bringing up L1 and L2). RIC probably not one of the very next steps.
 - c. 2023-01-30: O-RAN f-2-f: James asked if any demo planned. not planned.
 - d. 2024-02-13: thinking about demos for f-2-f (in discussion with Bimu)
 - e. 2024-03-12: No updates. Willing to give demo on ORAN-SC Near RT RIC Demo. Details to be worked on the technical and demo content.
 - f. 2024-03-26: Unavailable today.
- 5. Prashant's work in near-RT RIC(subteam-p)
 - a. 2023-08-22, 2023-09-26, 2023-11-07: could not participate
 - b. 2024-02-13, 2024-03-12, 2024-03-26: no news
- 6. Sunil updates (subteam-h)?
 - a. 2023-09-12: can give update next time. Maybe 2 or 3 items to work on.
 - b. 2023-11-07: Not in the call today
 - c. 2023-11-21: no updates. Difficult to find engineers working on this.
 - d. 2024-01-16: demo of xApp project additions in I release Next time
 - e. 2024-01-16: re-evaluating RIC platform Jira items
 - f. 2024-01-30: went through old Jira ticket, initial plan for release J: RIC-950, RIC-926, RIC-878 and RIC-860
 - g. 2024-02-13: working on RIC subscription delete testing
 - h. 2024-03-12: Implementation completed, facing issues in code submission.
 - i. 2024-03-26: Working on **RIC-1049**, documentation will also be made.
- 7. Subhash/Naman updates (subteam-s) ?
 - a. 2023-12-05: Naman gave an update on status of Samsung items
 - b. 2024-01-16: Naman updated readme (still to merged) on how to deploy RIC using operators.
 - c. 2024-01-30, 2024-02-13: no news, but still needs to work on **RIC-1031**
 - d. 2024-03-12: RIC-1031 - Needs more time to complete, To start working on A1 mediator integration with Non RealTime RIC
 - e. 2024-03-26: Continuing on RIC-1031, Working on **RIC-1048** (analysis on RMR scaling, design to be worked upon)
- 8. Abhijit updates (subteam-ag) ?
 - a. 2023-10-24:
 - i. Abhijit and James release new base image: docker pull nexus3.o-ran-sc.org:10002/o-ran-sc/bldr-ubuntu22-c-go:0.1.0 still to be made 1.0.0 Reminder [Abhijit Gadgil](#)
 - ii. no progress in review on the plain helm chart based deployment in <https://gerit.o-ran-sc.org/r/c/ric-plt/ric-dep/+11743> to be merged by [Thoralf Czichy](#)

- iii. 1 and 2 of **RIC-1004** still be finalized this week. Rest to be moved to a new item.
 - iv. Sunil asked about the Rust xApp ready with basic hello world scenario. Documentation is best placed into readme *and* confluence.
 - b. 2024-01-16, 2024-01-30: No news.
 - c. 2024-02-13: continues work on xapp framework rust, incl. metric support
 - d. 2024-03-12: No news.
 - e. 2024-03-26: Implementation done , testing pending for **xapp framework rust, incl. metric support**
9. Cap Gemini updates (subteam-cg)?
- a. We agreed to come back to repo creation for phase 2 (ricapp part) of conflict manager in 1H2024
 - b. 2024-01-16: Ashish presented the design of conflict manager, first phase: [link to slideset](#)
 - c. 2024-03-26: unavailable.
10. Himanshu (subteam-gs) would like to work on RIC-963
- a. 2023-12-05: RIC-963 seems to be ready. Himanshu still wants to test this with unordered IEs. Requires a minor addition in ric-dep repo for new config parameter.
 - b. 2024-01-16: RIC-963 ready and merged. New review for RIC-1030 for final changes on checking (or not checking) IE order in additional messages.
 - c. 2024-03-12: Interested work in open issues that are already assigned. To check RIC-1047, if Dhiraj is not working, length of IE > 1024 in RIC_ACTION_DEFINITION causing some issue. Sandeep is working in it. Issue in submgr. Good to raise JIRA.
 - d. 2024-03-26: Assigned **RIC-1043,1044,1047**. Will provide updates next week. length of IE > 1024 in RIC_ACTION_DEFINITION causing issue in submgr - Sandeep to check if Jira needs to be raised. RIC-1051- Himanshu looking into it.
11. Dhiraj (subteam-r)
- a. 2023-12-05: moved the IPv6 item to J release
 - b. 2024-01-16: approval for changes to be committed now obtained. IPv6-related commits expected over the next weeks.
 - c. 2024-01-26: no news.
12. Alexandre (subteam-utfpr)
- a. 2023-08-29: Alexandre working on RIC-989 and RIC-991. Will also take a look at RIC-1001
 - b. 2023-09-26: subscription message issue with encoding E2SM parts. A. will send e-mail to Thoralf
 - c. 2024-03-12: RIC-989 and RIC-991 closed. RIC-1001 would need support from ric-plt/rtmgr, will send email to Abdulwahid. xapp-frame (C++) changes for xapp registration locally completed. Jira will be raised
 - d. 2024-03-26: No news.
13. Nokia (subteam-n)
- a. RIC-997 postponed to J
 - b. 2024-02-13: Thoralf leaving Nokia/PTL role. Role is open for applications. Nokia nominated Abdulwahid.
14. ORAN-SC half day workshop, San Jose, CA on April 29th - Any volunteers to make on-site demo of NEAR RT RIC - James will take it up.
- a. 2024-03-26: New nomination awaited from TOC.
15. J release
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2024-03-12

Recording: [link to zoom meeting](#)

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2024-02-13

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 - d. 2024-02-13: thinking about demos for f-2-f (in discussion with Bimu)
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 - f. 2024-01-30: went through old Jira ticket, initial plan for release J: RIC-950, RIC-926, RIC-878 and RIC-860
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 - b. 2024-01-16: Naman updated readme (still to merged) on how to deploy RIC using operators.
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 - iii. 1 and 2 of RIC-1004 still be finalized this week. Rest to be moved to a new item.
 - iv. Sunil asked about the Rust xApp ready with basic hello world scenario. Documentation is best placed into readme and confluence.
 - b. 2024-01-16, 2024-01-30: No news.
 - c. 2024-02-13: continues work on xapp framework rust, incl. metric support
 9. Cap Gemini updates (subteam-cg)?
 - a. We agreed to come back to repo creation for phase 2 (ricapp part) of conflict manager in 1H2024
 - b. 2024-01-16: Ashish presented the design of conflict manager, first phase: [link to slideset](#)
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 - a. 2023-08-29: Alexandre working on RIC-989 and RIC-991. Will also take a look at RIC-1001
 - b. 2023-09-26: subscription message issue with encoding E2SM parts. A. will send e-mail to Thoralf
 13. Nokia (subteam-n)
 - a. RIC-997 postponed to J
 - b. 2024-02-13: Thoralf leaving Nokia/PTL role. Role is open for applications. Nokia nominated Abdulwahid.
 14. J release
 - a. 2024-02-13: Naman's input
 - i. no Jira tickets yet, but would like to focus on
 1. K8S operator for day 2 operations, like scale-in and scale-out (but requires some thoughts on messaging) : [RIC-1048](#)
 - b. I release theme for near-rt RIC was "RIC Platform Enhancements". What's it going to be for J?
 - i. Thoralf's proposal based on current Jira list: **"Make the platform more robust in handling E2AP, conflicts and A1"**
 - c. We mark items that you are >90% sure ("committed") to work on during 1H2024 with your label, like subteam-n (Nokia), subteam-s (Samsung) and so on. Items that are proposed for J release but not "committed" we mark with subteam-n-proposal, subteam-s-proposal and so on. To ease usage I created a couple of filters for follow up. See §7.3 from [Jira usage conventions](#).
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- ii. committed items only: [all teams \(committed\)](#) and [all teams \(committed + tentative\)](#).
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2024-01-30

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 - c. Thoralf did this last on 2023-12-14 as part of release notes: we did not do this this time
3. Every time: Check if there are new bug reports in JIRA: [link](#)
 - a. RIC-1045 A1 mediator is in crash loopback state for H-Release And I-Release (HCL team can fix)
 - b. [RIC-1044](#) Potential Missing Array Size Checks Leading to Crashes in e2mgr
 - c. [RIC-1043](#) Crash in E2T buildPrometheusList Function
 - d. [RIC-1042](#) Can't register xApp
 - e. [RIC-1041](#) Frequent Pod Eviction in Near-RT RIC Due to Ephemeral-Storage Resource Limitation
 - f. [RIC-1031](#) Data model is not compliant with latest A1 spec Naman (planned to start work in next week)
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 - z. fixed: **RIC-991, RIC-989**
4. James: updates?
- a. ~~2023-09-12: requested from PTLs pair wise testing. From Near RT RIC point of view we hope for the non-RT RIC project to initiate testing with A1 mediator standalone version.~~
 - b. ~~2023-09-26: This was presented in TOC (See [link](#)). Cases relevant for near-RT RIC:~~
 - i. ~~ODU-high and near-RT RIC (currently using stub);~~
 - ii. ~~near-RT RIC and xApp (KPMON/bouncer or maybe adding CCC xApp)~~
 - iii. ~~near-RT RIC and non-RT RIC (A1) — next step on non-RT RIC side (A1 standalone mediator provided)~~
 - iv. ~~James will check with Sunil on issues he has with the test cases~~
 - v. ~~ArgoCD used by Taiwan lab in some ONAP SMO case and the engineers there were wondering if something similar could be done with OSC.~~
 - c. ~~2023-10-24~~
 - i. ~~updates from O-RAN f 2 f:~~
 - 1. ~~nephio and OAI discussion: Nephio team would like to add RAN components (OAI, OSC, and parts of the OSC SMO (via Seshu) into R2 (← Feb2024)~~
 - 2. ~~OAI had three demos. One of them is about improving QoE with H release of near-RT RIC using some code copied from KPM and hello-world xApps.~~
 - a. ~~see demo "oai-osc-ric-demo.mp4" in [link](#) and the demo session recording on the O-RAN web site (thoralf todo)~~
 - b. ~~more discussion coming at the joint OSC/OAI workshop in Boston~~
 - 3. ~~session on SCCL did make some progress in that WG10/WG6 understanding improved. Additional discussion scheduled under O-RAN umbrella for Oct 31.~~
 - ii. ~~OSFC discussed on the super wireless footprint (material available at O-RAN-OSFC)~~
 - d. ~~2023-11-07~~
 - i. ~~James is working with Taiwan lab on making sure we have good coverage~~
 - e. ~~2023-11-21~~
 - i. ~~was at OSC-OAI conference~~
 - ii. ~~could start using team accounts to test beds from Colosseum (NU) and ARA~~
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7. Subhash/Naman updates (subteam-s) ?
- a. ~~2023-08-29: no news, other than Naman working on the operator implementation.~~
 - b. ~~2023-09-12:~~
 - i. ~~We had a meeting with John and Denis on non-rt RIC compatibility. Agreed in fixes for URL and policystatusobject type from integerstring (as per standard) Naman.~~
 - ii. ~~Thoralf to figure out a way to start A1 mediator standalone for CI testing~~
 - 1. ~~Thoralf sent instructions to John - DONE~~
 - iii. ~~current implementation of /data-delivery URL in A1 — need to check if >1 consumer of EI data (sent by non-RT RIC) works on our side.~~
 - iv. ~~Naman also works on the operator implementation~~
 - c. ~~2023-09-26:-~~
 - i. ~~kubernetes operator new repo needed or not?~~
 - 1. ~~xapp deployment - appmgr or ricdms~~
 - 2. ~~ric platform - ric-dep (still work in progress) — check if operator can use helm chart defined by Abhijit.~~
 - ii. ~~What happened to kserve adapter? Subhash can check.~~
 - d. ~~2023-11-07~~
 - i. ~~Naman presented his k8s operator work. Naman used Kubebuilder~~
 - ii. ~~still working on operator to deploy RIC platform~~
 - e. ~~2023-11-21:~~
 - i. ~~k8s operator commits — needs to be finalized.~~
 - f. ~~2023-12-05: Naman gave an update on status of Samsung items~~
 - g. ~~2024-01-16: Naman updated readme (still to merged) on how to deploy RIC using operators.~~
8. Abhijit updates (subteam-ag) ?

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 - i. Abhijit and James release new base image: docker pull nexus3.o-ran-sc.org:10002/o-ran-sc/bldr-ubuntu22-c-go:0.1.0 still to be made 1.0.0 Reminder [Abhijit Gadgil](#)
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- b. 2024-01-16 No news.
9. Cap Gemini updates (subteam-cg)?
 - a. 2023-11-07: after discussions on the topic we would like to proceed with
 - i. ~~Phase1: Conflict Manager (running as a platform component) without E2SM parsing which means that Conflict Manager feature will work only for Conflict Aware xApps. Interface between Conflict Aware xApp and Conflict Manager will be gRPC.~~
 - ii. ~~Phase2: E2SM xApp support so that the Conflict Manager feature works for Conflict Unaware xApps as well.~~
 - iii. discuss-with-Sunil-on-when-and-how-in-terms-of-repo-creation we agreed to come back to this in 1H2024
 - b. **2024-01-16: Ashish presented the design of conflict manager, first phase: [link to slideset](#)**
10. Himanshu (subteam-gs) would like to work on RIC-963
 - a. ~~2023-08-29: ready for merging once the CI problem (gofmt) is fixed. Can be merged together with a change in the helm chart (ric-dep). Default behavior is "strict order" (as currently). But config value can change to "any order".~~
 - b. ~~2023-11-07: addressing review comments of <https://gerrit.o-ran-sc.org/r/c/ric-plt/submgr/+11681> tomorrow. Then we should be able to merge this.~~
 - c. ~~2023-11-21: as discussed in teh beginning of the meeting. Review comment still being worked on. Once handled, pls. merge. And wer handle commits as piecemeal small items.~~
 - d. 2023-12-05: RIC-963 seems to be ready. Himanshu still wants to test this with unordered IEs. Requires a minor addition in ric-dep repo for new config parameter.
 - e. **2024-01-16: RIC-963 ready and merged. New review for RIC-1030 for final changes on checking (or not checking) IE order in additional messages.**
11. Dhiraj (subteam-r)
 - a. 2023-12-05: moved the IPv6 item to J release
 - b. 2024-01-16: approval for changes to be committed now obtained. IPv6-related commits expected over teh next weeks.
12. Alexandre (subteam-utfpr)
 - a. 2023-08-29: Alexandre working on RIC-989 and RIC-991. Will also take a look at RIC-1001
 - b. 2023-09-26: subscription message issue with encoding E2SM parts. A. will send e-mail to Thoralf
13. Nokia (subteam-n)
 - a. RIC-997 postponed to J
14. J release
 - a. We mark items that you are >90% sure ("committed") to work on during 1H2024 with your label, like subteam-n (Nokia), subteam-s (Samsung) and so on. Items that are proposed for J release but not "committed" we mark with subteam-n-proposal, subteam-s-proposal and so on. To ease usage I created a couple of filters for follow up. See §7.3 from [Jira usage conventions](#).
 - i. Example Nokia J release: [link](#)
 - a. input for release candidates: [left ovleft oversers](#) and [generally open items](#), RSAC
 - b. Sprint dates
 - i. TODO - general timeframe: Jan-June 2024

1. RICAPP agenda: [RICAPP Meetings](#).

2023-12-19 **demo meeting** instead of the normal project meeting, same time slot

2023-12-05

Recording: [link to zoom recording](#)

1. Every time: Check rule RC-4 ([link](#)) that all L or XL commits of the last two weeks have also new unit tests. This is our policy. [link-to-reviews](#) ([gerrit filter instructions](#) // [gerrit t-shirt-sizing](#)).
 - a. Last checked on 2023-09-26
 - i. <https://gerrit.o-ran-sc.org/r/c/ric-plt/xapp-frame-rust/+11898> OK (simple alarms, but we created [RIC-1028](#) for a more general test mock framework)
 - ii. <https://gerrit.o-ran-sc.org/r/c/ric-plt/ric-dep/+11743> OK, since deployment acts as test
 - iii. <https://gerrit.o-ran-sc.org/r/c/ric-plt/ricdms/+12025> ok, lots of code, but very generic. Naman will try to add test case
 - iv. <https://gerrit.o-ran-sc.org/r/c/ric-plt/ricdms/+12032> OK, only go.sum file
 - v. <https://gerrit.o-ran-sc.org/r/c/ric-plt/xapp-frame-rust/+11895> OK (simple alarms, but we created [RIC-1028](#) for a more general test mock framework)
2. every second time: Review **code coverage stats** and **blocker code smells**
 - a. We take a look at the two links in the beginning of this page: [Code coverage reports](#)..
 - b. The list below is only working reports // Anybody volunteering to work with LF on making the code coverage CI to work again (there's still the old JVM version)
 - c. Thoralf did this last on 2023-05-23: we did not do this this time
3. Every time: Check if there are new bug reports in JIRA: [link](#)
 - a. [RIC-1025](#) memory leak in routing manager
 - b. [RIC-1017](#) xapp-frame - xapp-frame may not be able to successfully subscribe to messages

- c. [RIC-1016](#) e2t sctp_params structure may not be initialized properly Nokia
 - d. [RIC-1015](#) e2t too High default message size. Nokia
 - e. [RIC-1014](#) e2t potential race condition in the `listener` function due to multiple `listener` threads. Nokia
 - f. [RIC-1013](#) e2t e2term pod does not become ready. Possible stack/heap corruption
 - g. [RIC-1002](#) (Nokia fixes) Abnormal signaling process cause E2Term crash (this could be a security issue)
 - h. [RIC-1001](#) **CVE-2023-41627** RMR service should verify route tables - Alexandre will take a look
 - i. [RIC-991](#) **CVE-2023-40997** RMR related (not a duplicate) - Alexandre will take a look
 - j. [RIC-989](#) **CVE-2023-40998** RMR (minor) security issue - Alexandre will take a look
 - k. [RIC-972](#) (Naman) URL for A1 mediator to align with spec. ~~CLOSED~~
 - l. [RIC-965](#) RMR wormhole connections uses stale endpoints to make connections
 - m. [RIC-921](#) fix UT test case in e2mgr to stub time (leftover from review <https://gerrit.o-ran-sc.org/r/c/ric-plt/e2mgr/+8493>)
 - n. [RIC-915](#) dms_cli for installing xapp not working (raised by James)
 - o. [RIC-905](#) new (from PW) Issue in reporting the CLEAR ALARM as VES EVENT
 - p. [RIC-901](#) new (from PW) BUG FIX IN 'Get ALARM INFO' NETCONF COMMAND
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 - u. [RIC-852](#) Intermittent Issue with E2T: While setting up E2 setup request and response.
 - i. 2021-12-21: Trying to get bandwidth for this during F release.
 - v. [RIC-837](#) RMR is not forwarding messages from E2T to E2M
 - w. [RIC-835](#) 2021-12-07 no news from Viktor
 - x. fixed:
4. James: updates?
- a. 2023-09-12: requested from PTLs pair-wise testing. From Near-RT RIC point of view we hope for the non-RT RIC project to initiate testing with A1 mediator standalone version.
 - b. 2023-09-26: This was presented in TOC (See [link](#)). Cases relevant for near-RT RIC:
 - i. ODU-high and near-RT RIC (currently using stub).
 - ii. near-RT RIC and xApp (KPIMON/bouncer or maybe adding CCC xApp)
 - iii. near-RT RIC and non-RT RIC (A1) - next step on non-RT RIC side (A1 standalone mediator provided)
 - iv. James will check with Sunil on issues he has with the test cases
 - v. ArgoCD used by Taiwan lab in some ONAP SMO case and the engineers there were wondering if something similar could be done with OSC.
 - c. 2023-10-24
 - i. updates from O-RAN f-2-f:
 - 1. nephio and OAI discussion: Nephio team would like to add RAN components (OAI, OSC, and parts of the OSC SMO (via Seshu) into R2 (~Feb2024)
 - 2. OAI had three demos. One of them is about improving QoE with H release of near-RT RIC using some code copied from KPM and hello world xApps.
 - a. see demo "oai-osc-ric-demo.mp4" in [link](#) and the demo session recording on the O-RAN web site (thoralf-todo)
 - b. more discussion coming at the joint OSC/OAI workshop in Boston
 - 3. session on SCCL did make some progress in that WG10/WG6 understanding improved. Additional discussion scheduled under O-RAN umbrella for Oct-31.
 - ii. OSFG discussed on the super wireless footprint (material available at O-RAN OSFG)
 - d. 2023-11-07
 - i. James is working with Taiwan lab on making sure we have good coverage
 - e. 2023-11-21
 - i. was at OSC-OAI conference
 - ii. could start using team accounts to test beds from Colosseum (NU) and ARA
 - iii. discussed with Bimo (Taiwan lab) on pair-wise testing
 - iv. discussed with John Keeney (non-rt ric ptl) and discussed A1 pairwise testing. Asked from Sunil what's best A1-policy using xApp. None exists on open-src side. Naman commented that for Policy the hello-world xApp (C++ likely) could be used (just requires RMR route for policy type (must match the policy type that is created via curl)). James to contact Naman if help needed.
5. Prashant's work in near-RT RIC(subteam-p)
- a. 2023-08-22, 2023-09-26. 2023-11-07: could not participate
 - b. 2024-01-16
6. Sunil updates (subteam-h)?
- a. 2023-09-12: can give update next time. Maybe 2 or 3 items to work on.
 - b. 2023-11-07: Not in the call today
 - c. 2023-11-21: no updates. Difficult to find engineers working on this.
 - d. 2024-01-16: no news. Wants to re-evaluate tickets (earlier assigned to HCL).
7. Subhash/Naman updates (subteam-s) ?
- a. 2023-08-29: no news, other than Naman working on the operator implementation.
 - b. 2023-09-12:
 - i. We had a meeting with John and Denis on non-rt RIC compatibility. Agreed in fixes for URL and policystatusobject type from integerstring (as per standard) Naman.
 - ii. Thoralf to figure out a way to start A1 mediator standalone for CI testing
 - 1. Thoralf sent instructions to John DONE
 - iii. current implementation of /data-delivery URL in A1 - need to check if >1 consumer of EI data (sent by non-RT RIC) works on our side.
 - iv. Naman also works on the operator implementation
 - c. 2023-09-26:
 - i. kubernetes operator new repo needed or not?
 - 1. xapp deployment appmgr or ricdms
 - 2. ric platform ric-dep (still work in progress) - check if operator can use helm chart defined by Abhijit.
 - ii. What happened to kserve adapter? Subhash can check.
 - d. 2023-11-07

- i. Naman presented his k8s operator work. Naman used Kubebuilder
 - ii. still working on operator to deploy RIC platform
- e. 2023-11-21:
 - i. k8s operator commits - needs to be finalized.
- f. 2023-12-05: Naman gave an update on status of Samsung items
- 8. Abhijit updates (subteam-ag) ?
 - a. 2023-10-24:
 - i. Abhijit and James release new base image: docker pull nexus3.o-ran-sc.org:10002/o-ran-sc/bldr-ubuntu22-c-go:0.1.0 still to be made 1.0.0 Reminder [Abhijit Gadgil](#)
 - ii. no progress in review on the plain helm chart based deployment in <https://gerrit.o-ran-sc.org/r/c/ric-plt/ric-dep/+11743> to be merged by [Thoralf Czichy](#)
 - iii. ~~Abhijit raise RIC 1013 - RIC 1017 for issues he has discovered. Thoralf to find someone to work on it - most assigned to Nokia~~
 - iv. 1 and 2 of RIC-1004 still be finalized this week. Rest to be moved to a new item.
 - v. Sunil asked about the Rust xApp ready with basic hello world scenario. Documentation is best placed into readme and confluence.
- 9. Cap Gemini updates (subteam-cg)?
 - a. 2023-11-07: after discussions on the topic we would like to proceed with
 - i. Phase1: Conflict Manager (running as a platform component) without E2SM parsing which means that Conflict Manager feature will work only for Conflict Aware xApps. Interface between Conflict Aware xApp and Conflict Manager will be gRPC.
 - ii. Phase2: E2SM xApp support so that the Conflict Manager feature works for Conflict Unaware xApps as well.
 - iii. discuss-with-Sunil-on-when-and-how-in-terms-of-repo-creation we agreed to come back to this in 1H2024
 - iv. TODO-thoralf-to-ask-Gunja-to-present- Thoralf
- 10. Himanshu (subteam-gs) would like to work on RIC-963
 - a. 2023-08-29: ready for merging once the CI problem (gofmt) is fixed. Can be merged together with a change in the helm chart (ric-dep). Default behavior is "strict order" (as currently). But config value can change to "any order".
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 - d. 2023-12-05: RIC-963 seems to be ready. Himanshu still wants to test this with unordered IEs. Requires a minor addition in ric-dep repo for new config parameter.
- 11. Dhiraj (subteam-r)
 - a. ~~2023-08-22:~~
 - i. ~~checking compliance/license issues~~
 - ii. ~~How are policy types created? xApps register by policy type and understands the schema that is bound to it. Non-RT RIC should create policies using the same schema (there's a CUI for this on non-RT RIC side).~~
 - b. ~~2023-08-29:~~
 - i. ~~got clarity on license issues and now waiting for internal approval before publishing ipv6 related changes~~
 - c. ~~2023-11-07~~
 - i. ~~license topic still be discussed. Was working on an other project for last months~~
 - d. 2023-12-05: moved the IPv6 item to J release
- 12. Alexandre (subteam-utfr)
 - a. 2023-08-29: Alexandre working on RIC-989 and RIC-991. Will also take a look at RIC-1001
 - b. 2023-09-26: subscription message issue with encoding E2SM parts. A. will send e-mail to Thoralf
- 13. Nokia (subteam-n)
 - a. RIC-997 postponed to J
- 14. Demo
 - a. We will use the project meeting slot for the demos
 - b. Naman to demo k8s operator deployment of platform (xapp part already done) and also A1 creating a policy.
 - c. **Adding support for DU in E2T/E2M/RNIB - >thoralf can do if not Gunja.**
- 15. I release content
 - a. we mark items that you are >90% sure ("committed") to work on during 2H2023 with your label, like subteam-n (Nokia), subteam-s (Samsung) and so on. Items that are proposed for I release but not "committed" we mark with subteam-n-proposal, subteam-s-proposal and so on. To ease usage I created a couple of filters for follow up. See §7.3 from [Jira usage conventions](#).
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 - i. Sprint I release dev sprint 1: Aug-21 to Sep-10
 - ii. Sprint I release dev sprint 2: Sep-11 to Oct-1
 - iii. Sprint I release dev sprint 3: Oct-2 to Oct-22
 - iv. Sprint I release dev sprint 4: Oct-23 to Nov-12 (last planned development sprint)
 - v. Sprint I release dev sprint 5: Nov-13 to Dec-3 (only for unplanned last-minute development items)
 - c. Plan (v03 as of 2023-08-18):
 - i. I release plan moved to [I release page](#).
 - ii. Thoralf will start generating images next week (Dec-11 - Dec-13)
- 2. RICAPP agenda: [RICAPP Meetings](#).

2023-11-21

Recording: [link to zoom recording](#)

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 - c. ~~2023-09-26:
 - i. kubernetes operator new repo needed or not?~~

1. ~~xapp deployment - appmgr or ricdms~~
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 - iii. Sprint I release dev sprint 3: Oct-2 to Oct-22
 - iv. Sprint I release dev sprint 4: Oct-23 to Nov-12 (last planned development sprint)
 - v. Sprint I release dev sprint 5: Nov-13 to Dec-3 (only for unplanned last-minute development items)
 - d. Plan (v03 as of 2023-08-18):
 - i. I release plan moved to [I release page](#).
 - i.
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2023-11-07

Recording: [link to zoom recording](#)

1. Every time: Check rule RC-4 ([link](#)) that all L or XL commits of the last two weeks have also new unit tests. This is our policy. [link-to-reviews](#) ([gerrit filter instructions](#) // [gerrit t-shirt-sizing](#)).
 - a. Last checked on 2023-09-26
 - i. <https://gerrit.o-ran-sc.org/r/c/ric-plt/submgr/+11681> ok, (not yet merged)
 - ii. <https://gerrit.o-ran-sc.org/r/c/ric-plt/a1/+11889> ok. included test cases
 - iii. <https://gerrit.o-ran-sc.org/r/c/ric-plt/ricdms/+11999> actually small changes, but as this is generated code, no need for test cases. Actually hand-written code is coming in another review together with test code.
2. every second time: Review **code coverage stats** and **blocker code smells**
 - a. We take a look at the two links in the beginning of this page: [Code coverage reports](#)..

- b. The list below is only working reports // Anybody volunteering to work with LF on making the code coverage CI to work again (there's still the old JVM version)
 - c. Thoralf did this last on 2023-05-23: we did not do this this time
- 3. Every time: Check if there are new bug reports in JIRA: [link](#)
 - a. [RIC-1017](#) xapp-frame - xapp-frame may not be able to successfully subscribe to messages
 - b. [RIC-1016](#) e2t sctp_params structure may not be initialized properly Nokia
 - c. [RIC-1015](#) e2t too High default message size. Nokia
 - d. [RIC-1014](#) e2t potential race condition in the `listener` function due to multiple `listener` threads. Nokia
 - e. [RIC-1013](#) e2t e2term pod does not become ready. Possible stack/heap corruption
 - f. [RIC-1009](#) E2Mgr API can be improperly invoked. ~~TODO thoralf converted this to Epic~~
 - g. [RIC-1002](#) (Nokia fixes) Abnormal signaling process cause E2Term crash (this could be a security issue)
 - h. [RIC-1001](#) RMR service should verify route tables - Alexandre will take a look
 - i. [RIC-991](#) RMR related (not a duplicate) - Alexandre will take a look
 - j. [RIC-989](#) RMR (minor) security issue - Alexandre will take a look
 - k. [RIC-972](#) (Naman) URL for A1 mediator to align with spec. ~~CLOSED~~
 - l. [RIC-965](#) RMR wormhole connections uses stale endpoints to make connections
 - m. [RIC-921](#) fix UT test case in e2mgr to stub time (leftover from review <https://gerrit.o-ran-sc.org/r/c/ric-plt/e2mgr/+8493>)
 - n. [RIC-915](#) dms_cli for installing xapp not working (raised by James)
 - o. [RIC-905](#) new (from PW) Issue in reporting the CLEAR ALARM as VES EVENT
 - p. [RIC-901](#) new (from PW) BUG FIX IN 'Get ALARM INFO' NETCONF COMMAND
 - q. [RIC-896](#) xapps sending same msg type and sub id fails - details to be clarified
 - r. [RIC-894](#) long idle period (days) causes RMR connection breaks
 - s. [RIC-864](#) xapp-frame-cpp CI does not use Dockerfile and therefore uses Ubuntu18.04 (not 20.04) in build
 - t. [RIC-857](#) sporadically RMR takes multiple minutes before being "ready"
 - u. [RIC-852](#) Intermittent Issue with E2T: While setting up E2 setup request and response.
 - i. 2021-12-21: Trying to get bandwidth for this during F release.
 - v. [RIC-837](#) RMR is not forwarding messages from E2T to E2M
 - w. [RIC-835](#) 2021-12-07 no news from Viktor
 - x. fixed: [RIC-972](#)
- 4. James: updates?
 - a. 2023-09-12: requested from PTLs pair-wise testing. From Near-RT RIC point of view we hope for the non-RT RIC project to initiate testing with A1 mediator standalone version.
 - b. 2023-09-26: This was presented in TOC (See [link](#)). Cases relevant for near-RT RIC:
 - i. ODU-high and near-RT RIC (currently using stub).
 - ii. near-RT RIC and xApp (KPIMON/bouncer or maybe adding CCC xApp)
 - iii. near-RT RIC and non-RT RIC (A1) - next step on non-RT RIC side (A1 standalone mediator provided)
 - iv. James will check with Sunil on issues he has with the test cases
 - v. ArgoCD used by Taiwan lab in some ONAP SMO case and the engineers there where wondering if something similar could be done with OSC.
 - c. 2023-10-24
 - i. updates from O-RAN f-2-f:
 - 1. nephio and OAI discussion: Nephio team would like to add RAN components (OAI, OSC, and parts of the OSC SMO (via Seshu) into R2 (~Feb2024)
 - 2. OAI had three demos. One of them is about improving QoE with H release of near-RT RIC using some code copied from KPM and hello world xApps.
 - a. see demo "oai-osc-ric-demo.mp4" in [link](#) and the demo session recording on the O-RAN web site (thoralf-todo)
 - b. more discussion coming at the joint OSC/OAI workshop in Boston
 - 3. session on SCCL did make some progress in that WG10/WG6 understanding improved. Additional discussion scheduled under O-RAN umbrella for Oct-31.
 - ii. OSFG discussed on the super wireless footprint (material available at O-RAN OSFG)
 - d. 2023-11-07
 - i. James is working with Taiwan lab on making sure we have good coverage
- 5. Prashant's work in near-RT RIC(subteam-p)
 - a. 2023-08-22, 2023-09-26, 2023-11-07: could not participate
- 6. Sunil updates (subteam-h)?
 - a. 2023-09-12: can give update next time. Maybe 2 or 3 items to work on.
 - b. 2023-11-07: Not in the call today
- 7. Subhash/Naman updates (subteam-s) ?
 - a. 2023-08-29: no news, other than Naman working on the operator implementation.
 - b. 2023-09-12:
 - i. We had a meeting with John and Denis on non-rt RIC compatibility. Agreed in fixes for URL and policystatusobject type from integerstring (as per standard) Naman.
 - ii. Thoralf to figure out a way to start A1 mediator standalone for CI testing
 - 1. Thoralf sent instructions to John DONE
 - iii. current implementation of /data-delivery URL in A1 - need to check if >1 consumer of EI data (sent by non-RT RIC) works on our side.
 - iv. Naman also works on the operator implementation
 - c. 2023-09-26:
 - i. kubernetes operator new repo needed or not?
 - 1. xapp deployment apmgrp or ricdms
 - 2. ric platform ric-dep (still work in progress) - check if operator can use helm chart defined by Abhijit.
 - ii. What happened to kserve adapter? Subhash can check.
 - d. 2023-11-07
 - i. Naman presented his k8s operator work. Naman used Kubebuilder
 - ii. still working on operator to deploy RIC platform
- 8. Abhijit updates (subteam-ag) ?
 - a. 2023-10-24:

- i. Abhijit and James release new base image: docker pull nexus3.o-ran-sc.org:10002/o-ran-sc/bldr-ubuntu22-c-go:0.1.0 still to be made 1.0.0
 - ii. no progress in review on the plain helm chart based deployment in <https://gerrit.o-ran-sc.org/r/c/ric-plt/ric-dep/+11743>
 - iii. Abhijit raise RIC-1013 ... RIC-1017 for issues he has discovered. Thoralf to find someone to work on it.
- 9. Cap Gemini updates (subteam-cg)?
 - a. **2023-11-07:** after discussions on the topic we would like to proceed with
 - i. **Phase1:** Conflict Manager (running as a platform component) without E2SM parsing which means that Conflict Manager feature will work only for Conflict Aware xApps. Interface between Conflict Aware xApp and Conflict Manager will be gRPC.
 - ii. **Phase2:** E2SM xApp support so that the Conflict Manager feature works for Conflict Unaware xApps as well. TODO-discuss-with-Sunil-on-when-and-how-in-terms-of-repo-creation
 - iii. TODO-thoralf-to-ask-Gunja-to-present
- 10. Himanshu (subteam-gs) would like to work on RIC-963
 - a. 2023-08-29: ready for merging once the CI problem (gofmt) is fixed. Can be merged together with a change in the helm chart (ric-dep). Default behavior is "strict order" (as currently). But config value can change to "any order".
 - b. 2023-11-07: addressing review comments of <https://gerrit.o-ran-sc.org/r/c/ric-plt/submgr/+11681> tomorrow. Then we should be able to merge this.
- 11. Dhiraj (subteam-r)
 - a. 2023-08-22:
 - i. checking compliance/license issues
 - ii. How are policy types created? xApps register by policy type and understands the schema that is bound to it. Non-RT RIC should create policies using the same schema (there's a GUI for this on non-RT RIC side).
 - b. 2023-08-29:
 - i. got clarity on license issues and now waiting for internal approval before publishing ipv6 related changes
 - c. 2023-11-07
 - i. license topic still be discussed. Was working on an other project for last months
- 12. Alexandre (subteam-utfpr)
 - a. 2023-08-29: Alexandre working on RIC-989 and RIC-991. Will also take a look at RIC-1001
 - b. 2023-09-26: subscription message issue with encoding E2SM parts. A. will send e-mail to Thoralf
- 13. Nokia (subteam-n)
 - a. ...
- 14. I release content
 - a. we mark items that you are >90% sure ("committed") to work on during 2H2023 with your label, like subteam-n (Nokia), subteam-s (Samsung) and so on. Items that are proposed for I release but not "committed" we mark with subteam-n-proposal, subteam-s-proposal and so on. To ease usage I created a couple of filters for follow up. See §7.3 from [Jira usage conventions](#).
 - b. input for release candidates: [left overs](#) and [generally open items](#), RSAC
 - c. Sprint dates
 - i. Sprint I release dev sprint 1: Aug-21 to Sep-10
 - ii. Sprint I release dev sprint 2: Sep-11 to Oct-1
 - iii. Sprint I release dev sprint 3: Oct-2 to Oct-22
 - iv. Sprint I release dev sprint 4: Oct-23 to Nov-12 (last planned development sprint)
 - v. Sprint I release dev sprint 5: Nov-13 to Dec-3 (only for unplanned last-minute development items)
 - d. Plan (v03 as of 2023-08-18):
 - i. I release plan moved to [I release page](#).
- 2. RICAPP agenda: [RICAPP Meetings](#).

Older meeting minutes

check from here: [Project meetings \(old\)](#)