



# Non-RealTime RIC in O-RAN Software Community

OSC Non-RealTime RIC project (NONRTRIC)

John Keeney & OSC NONRTRIC Team

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# O-RAN SC: Non-RealTime RIC (NONRTRIC)

PTL: John Keeney – Ericsson Software Technology

Wiki: <https://wiki.o-ran-sc.org/display/RICNR>

JIRA: <https://jira.o-ran-sc.org/projects/NONRTRIC/issues>

Gerrit: (16 Repos)

- nonrtric : <https://gerrit.o-ran-sc.org/r/admin/repos/q/filter:nonrtric> (14 repos)
- portal/nonrtric-controlpanel : <https://gerrit.o-ran-sc.org/r/admin/repos/portal/nonrtric-controlpanel>
- sim/a1-interface : <https://gerrit.o-ran-sc.org/r/admin/repos/sim/a1-interface>

Docs:

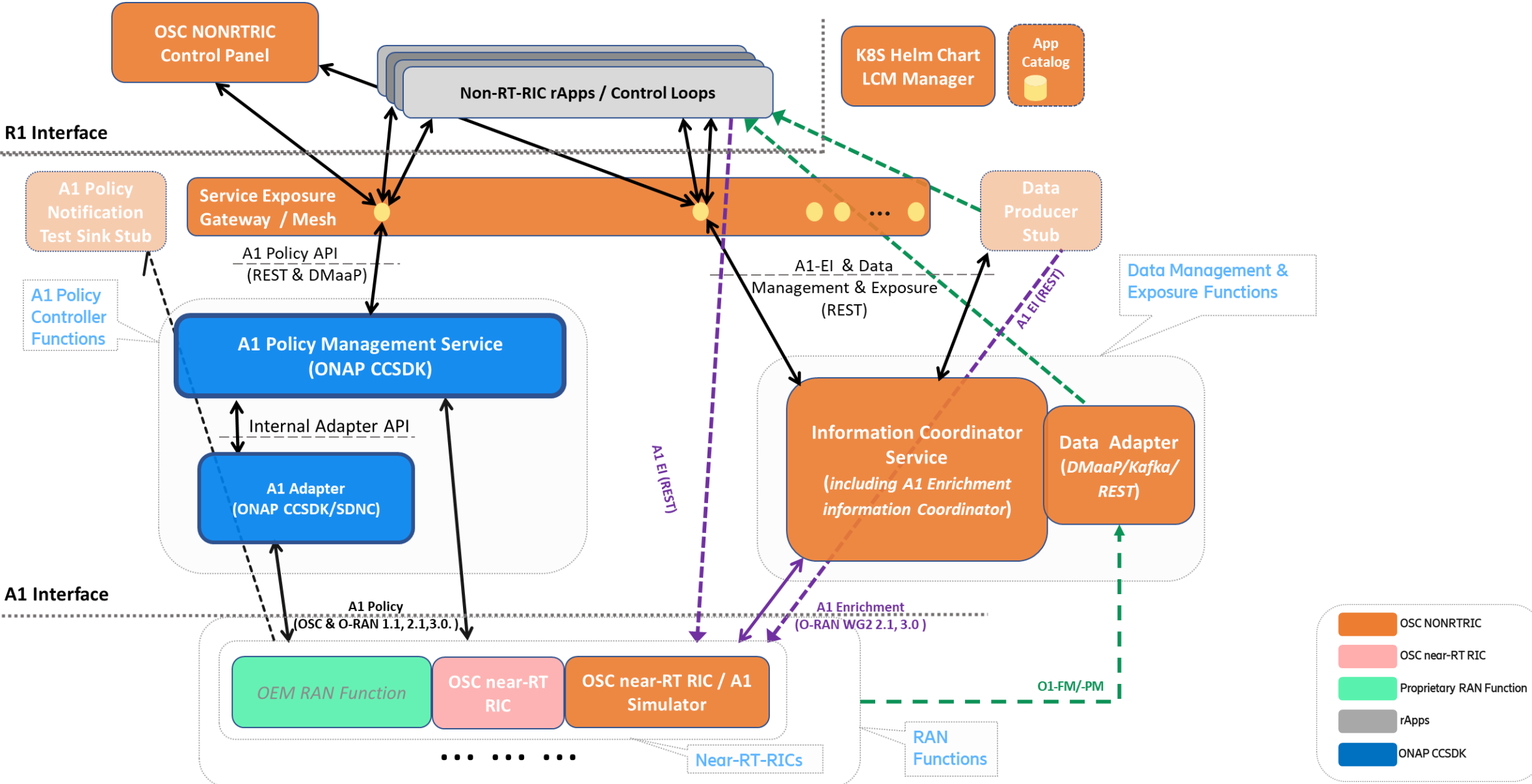
- nonrtric : <https://docs.o-ran-sc.org/projects/o-ran-sc-nonrtric>
- portal/nonrtric-controlpanel : <https://docs.o-ran-sc.org/projects/o-ran-sc-portal-nonrtric-controlpanel>
- sim/a1-interface : <https://docs.o-ran-sc.org/projects/o-ran-sc-sim-a1-interface>

Email List:

- OSC "[discuss](https://lists.o-ran-sc.org/q/discuss)" mailing list: <https://lists.o-ran-sc.org/q/discuss>: [discuss@lists.o-ran-sc.org](mailto:discuss@lists.o-ran-sc.org)
- Please use hashtag **#nonrtric**

Meetings: <https://wiki.o-ran-sc.org/display/RICNR/Meetings>

# NONRTRIC: Architecture – OSC Release H





# NONRTRIC: Dev. Priorities for OSC Release H (*Jun '23*)

- Consolidating PM data exposure in new repo for RAN PM functions
  - <https://gerrit.o-ran-sc.org/r/gitweb?p=nonrtric%2Fplt%2Ffranpm.git;a=summary>
  - Adds 4 new services for RAN PM processing
  - Lots of work on deployment scripts/charts, testing, CI, and documentation
- (R1) Service Exposure & Management
  - CAPIF Aligned Service Registry
    - Demo at RSAC 2023-05-17
  - Secured/Sandbox execution environment
  - Controlled access & exposure of service to/from rApps
- (R1) Data Management & Exposure
  - Small updates to Information Coordination Service – studying alignment with R1 proposals
  - File-based PM data → Kafka/InfluxDB/Minio
    - Including parsing, filtering & delivery
    - Ref PM Data exposure above
  - Supporting AIMLFW project to use DME functions for data ingest



# NONRTRIC: Dev. Priorities for OSC Release H (*Jun '23*)

- rApp Management
  - Starting work on a new rApp Manager functions – More in next release
  - LCM for rApps: Building on ONAP “Automation Composition” model & platform to implement rApp use cases
    - Added a 'KServe Participant'
      - Inference Services in rApps
      - Now support KServe-based AI/ML rApps
    - Added an 'A1 Policy Participant'
  - Packaging, Onboarding & Orchestration of rApps
    - rApp-specific packaging & Onboarding
      - Aim to align with / inform ongoing work in O-RAN (& OSC) about Common App packaging & Onboarding.
      - Will start initially with simple ready-to-deploy ASD-based rApps – More in next release
  - Overlap with Service Exposure work to examine role of an rApp Manager to support controlled access to and exposure of Services
  - Overlap with Data Exposure work to examine role of an rApp Manager to support controlled access to and exposure of Data types



# NONRTRIC: Dev. Priorities for OSC Release H (*Jun '23*)

- Continued A1-Policy & A1-Enrichment-Information evolution (& R1-A1)
  - [A1-Policy work in ONAP](#) (continues in ONAP London) - candidate for R1-A1(P)
    - Numerous updates to improve security
    - Improved support fine-grained policy-based access control
    - Removed DMaaP NBI
  - A1-EI management as part of DME - candidate for how to include A1-EI in R1-DME
    - Ref DME work above
- Demonstrating ASD-based CNF LCM
  - Demo at RSAC 2023-05-17
  - ONAP SO CFM in standalone mode
    - Work will continue in revamped OSC SMO Project



# NONRTRIC: Dev. Priorities for OSC Release H (*Jun '23*)

- Sample use cases (rApps)
  - Requirements Drivers for rApp/R1 development
- Testing, Maintenance & Housekeeping
  - 3PP update – esp. Springboot 3 & JDK 17
  - Function Test & Integration Test environment,
    - Lots of new test cases, and new ONAP L & OSC H test profiles
  - Release Tasks: Preparing OSC H Release & Documentation
  - Continue integration, deployment & configuration of SMO/Non-RT-RIC related functions & usecases in OSC Integration env.
  - Project coordination, Documentation, Delivery, Reporting, Cross-project alignment, Community demos, O-RAN Standardization support, etc.



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