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/g/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" mailing list: https://lists.o-ran-sc.org/g/discuss: discuss@lists.o-ran-sc.org
  • Please use hashtag #nonrtric
Meetings: https://wiki.o-ran-sc.org/display/RICNR/Meetings
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%2Franpm.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)

  • **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.