



OSC NONRTRIC Release G

NONRTRIC Team

OSC RSAC: July 2022

Proposal:

- 1: R1 Service Exposure & Management
- 2: R1 Data Management & Exposure
- 3: rApp Manager
- 4: Continue A1-Policy & A1-Enrichment-Information evolution (& R1-A1)
- 5: Sample use cases (rApps)
- 6: Testing, Maintenance & Housekeeping

NONRTRIC: Dev. Priorities for OSC Release G (*Dec '22*)

1: R1 Service Exposure & Management

- Continue work of Service execution platform extensions (K8s, Istio, Keycloak, OPA, Gateway) to enable service isolation & exposure
 - Create/apply K8S configurations to isolate platform services and rApp microservices, then configure controlled secure access between service
 - Continue to study fine-grained service-specific access control & exposure for non-microservice parts of rApps
- Extend Release F prototyping of 3GPP CAPIF-aligned Service Exposure Manager function (& API)
 - Registry for service producers & consumers - support service discovery
 - Extend to trigger service sandboxing & exposure set-up at service registration time
 - Extend to provide necessary tokens/credentials etc. to access service (exposure) for authenticated consumers

NONRTRIC: Dev. Priorities for OSC Release G (*Dec '22*)

2: R1 Data management & Exposure

- Align with emerging proposals for R1-DME where possible
- R1 DME Data Catalog:
 - Extend current Information Coordinator Service to act as a Data Catalog
 - .. as proposed in O-RAN WG2 R1-DME discussions
- R1 Data delivery & filtering (kafka & REST)
 - Securely subscribe & manage subscription to filtered data (e.g. PM data, data for ML training, etc.)
 - Demonstrate O1-PM jobs (RAN->rApp), A1-EI jobs (rApps->RAN) & arbitrary data jobs (e.g. rApp->rApp)

NONRTRIC: Dev. Priorities for OSC Release G (*Dec '22*)

3: rApp Manager

- Build on ONAP “Automation Composition” model & platform to implement rApp use cases
- Demonstrate controlled on-boarding & LCM rApps with & without μ Service
 - Coordinate investigation with ONAP team to investigate support for ASDs in rApp model & LCM
 - Extend “Automation Composition Manager (ACM)” with “Participants” to support R1-DME (requires investigation), R1-A1-Policy and R1-A1-EI
- Overlap with Service Exposure work to examine role of an rApp Manager to support controlled exposure & LCM of μ Service and non- μ Service parts of an rApp
- Investigate where parts of rApp executes in KNative environment (e.g. ML model part of an rApp)
- *... requires use cases*

NONRTRIC: Dev. Priorities for OSC Release G (*Dec '22*)

4: Continue A1-Policy & A1-Enrichment-Information evolution (& R1-A1)

- Small extensions to A1-Policy & A1-Enrichment-Information specs continue
- Southbound: A1 Interface
 - Evolve A1-Policy Management Service & Information Coordinator Service (A1-EI)
- Northbound: R1-A1(P) & R1-DME Interfaces
 - Evolve A1-Policy Management Service & Information Coordinator Service

NONRTRIC: Dev. Priorities for OSC Release G (*Dec '22*)

5: Sample use cases (rApps)

- Requirements Drivers for rApp/R1 development
 - High degree of cross-project integration activity
1. O-DU Slice Assurance (RSAC Mandated)
 2. O-RU-FH recovery (RSAC Mandated)
 3. Healthcheck / Hello-World (RSAC Mandated)
 4. ONAP 5G-SON (rApp/platform support for existing ONAP use case)
 5. Grow existing set of “Hello World” test cases in NONRTRIC test suite

NONRTRIC: Dev. Priorities for OSC Release G (*Dec '22*)

6: Testing, Maintenance & Housekeeping

- Continually growing Function Test & Integration Test environment (as capabilities are added)
- Integration
 - Support 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.



Ericsson Software Technology

