

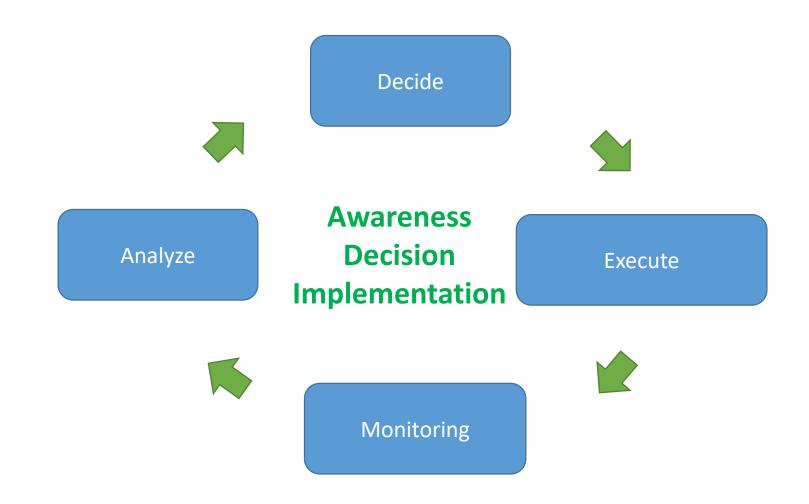
Closed Loop SLS Assurance

Outline

- Introduction to loops
- Example SLA Service Assurance Loop overview
- Example of SLS QoE goal fulfillment loop
- Potential connections to ONAP
- Scope of Control loop SLS assurance work in SA5

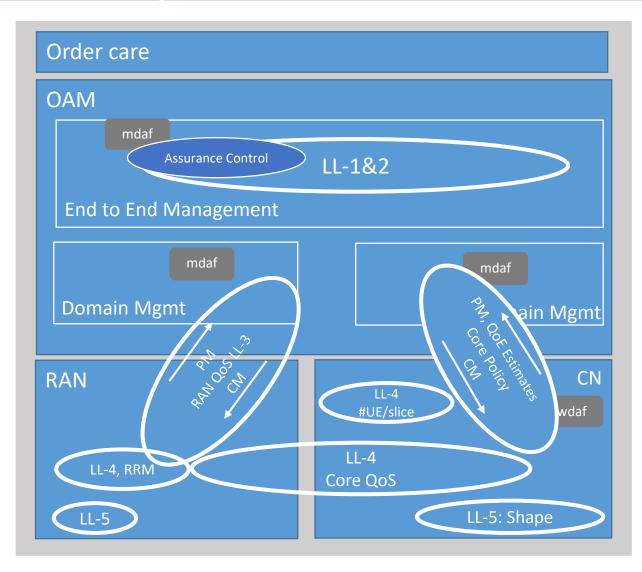


Introduction to loops





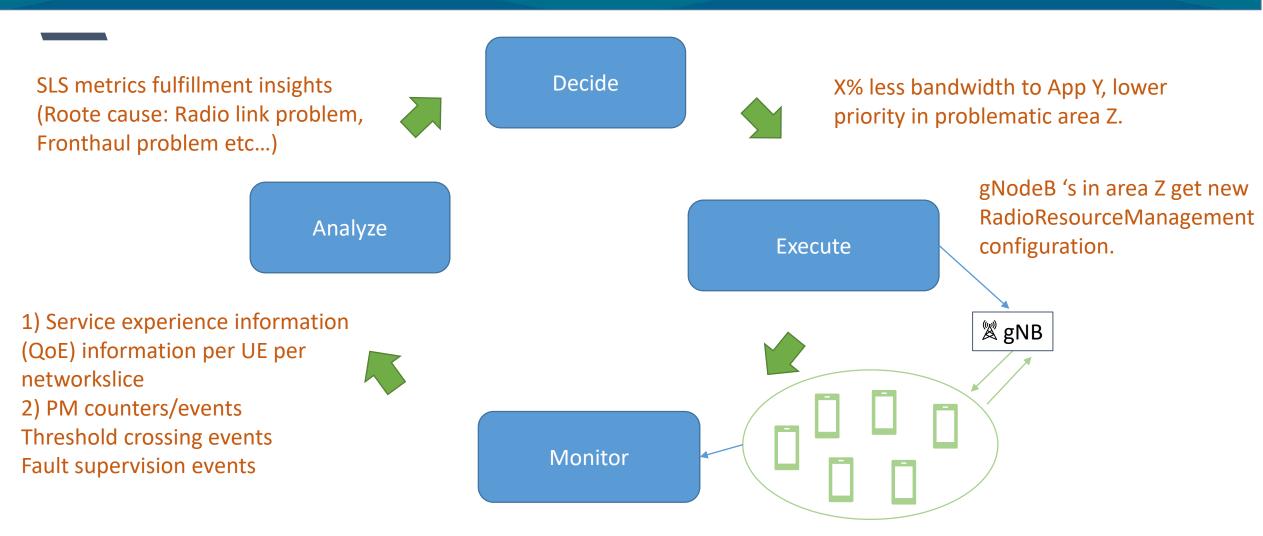
Example SLA Service Assurance Loop overview-



- OAM monitors NetworkSlice and CommunicationService SLS objectives.
- OAM delegates to Core to monitor UE or App "QoE" and report to OAM SLS assurance.
- Management and Control Loops examples:
 - LL-1&2: E2E Mgmt Control loops involving any customer facing and resource facing aspects;
 - SLS goal assurance.
 - LL-3: Domain Mgmt Control loops including interaction with Resource Control loops (L4).
 - Optional depending on complexity.
 - E.g. 4G SON loops, RAN and Core QoS policy provisioning.
 - LL-4: Resource Control Loops with interface for OAM interaction:
 - E.g. Core QoS, UPF selection and re-selection, etc.
 - E.g. RAN QoS, cell selection, etc.
 - LL-5: RAN and Core internal loops with no direct interaction with OAM
 - E.g. RAN Link adaptation, Core Shaping, etc.



Example of SLS QoE goal fulfillment loop (shown for RAN)



NOTE 1: SLS goal is on aggregate but monitoring and the triggering of the action is on session level

NOTE 2: The text around the loop are examples





Scope of the work item

- ➤ Key management control loops in SLS assurance, key entities in the loops (e.g. MDAS) and the relationship between the loops.
- ➤ Describe important data and enable efficient data collection [for SLS assurance] from NG-RAN and 5GC (includes NWDAF information) to consumers in OAM, e.g. performance management and configuration data
- > Describe the data the management service can provide to the CN.
- ➤ Describe coordination and management of the management functions involved in SLS assurance loops, including configuration of analytic functions, e.g. setting thresholds for prediction accuracy.
- ➤ Placement and role of management analytics functions in the OAM framework.
- > Definition of life cycle phases of ML models to allow lifecycle management of ML models
- ➤ Information exchange within the management system.



Thank you