2022-05-24 Meeting notes

Date

24 May 2022

Attendees

- N.K. Shankaranarayanan
- Vishal Varvate
- Niranjana Y
- YASHWANTH GANDHAPU
- John Keeney
- Ahila P

Need to add names ..

Agenda

1. Solution approach for control loop for A1-based action for SON use case.

Notes

Item	Who	Notes

| Kohn release reqs | | 4/26: Discussed reqs in following table. Will create JIRA as needed after discussion converges. Need to determine feasibility of work for SON-Handler MS and Policy. |

ONAP_SON_UseC...Kohn_Req.xlsx

5/3:

Here are links to the main SON Use case REQ for Kohn release ..
https://jira.onap.org/browse/REQ-1212

CCSDK REQ to cover A1 support in SDNR and also RAN-Sim work (which does not have a JIRA home)
https://jira.onap.org/browse/CCSDK-3644

It is clear that the SON-Handler MS has to send a modified message for the ANR A1-based message. That will have some minor code impact to SON-Handler.
We need to discuss what is feasible.
https://jira.onap.org/browse/DCAEGEN2-3148

Currently, Policy has two control loops for the SON use case which are both forwarded from Policy to SDNR. As of Jakarta, both were O1-based actions in SDNR.
In Kohn, one of them will change to an A1-based action. It might even be possible to use exactly the same control loop message (DMaaP) format
and have no impact in Policy. But this is an opportunity to see what change might make sense.
We need to discuss with Policy team what kind of change makes sense given the various new work re control loops.
https://jira.onap.org/browse/POLICY-4108

A1 support in SDN-R		3/30 Good discussion on including A1-based action. Vishal Varvate is interested in contributing. He will work with John Keeney .

A1 support in SDN-R

3/30 Good discussion on including A1-based action. Vishal Varvate is interested in contributing. He will work with John Keeney .
We discussed following plan:

1. Implement A1 instance in SDN-R. Leverage past work in A1, including work for Slicing use case, and OSC.
2. A1-policy trigger will be based on Control Loop msg sent from SON-Handler MS via Policy over DMaaP.
3. RAN-Sim needs enhancement to have xApp abstraction to receive A1 message and update CU/DU state and send VES msg. If A1 policy
message is about ANR/HO state, it can trigger xApp to make change to CU property. This chain replaces a direct O1 action for current ANR action.
4. RAN-Sim update can leverage work for Slicing. The target for RAN-SIm work is to align with OSC and also plan to move to netopeer due to Honeycomb being archived.
Possible approach is to add a netopeer-based server for near-rt-roc and xApp abstraction. Implementation of E2 to CU/DU can be abstracted. Details TBD.

4/19 Vishal needs info on A1 policy schema for ANR use case. Discussed details. Shankar to follow up.

4/26: Discussed control loop message formats for PCI and ANR and ANR policy schema. They are using same Policy name but different Control-Loop name and

different Action. See sample messages in file. Changes to ANR message format and control loop policy has impact on SON-Handler MS and Policy.

SON_ANR_PCI_sam...le A1policy.txt

5/3 Discussed message format for A1-based action. DMaaP message for ANR based needs to change to send payload aligned with A1 policy.

Requirement on SON Handler MS

⚡ DCAEGEN2-3148 - SON Handler MS changes for Kohn release CLOSED

Control Loop for A1-based action		
		ONAP_OOF_SON_...20220515.pptx
		Discussed the problem statement using slides above. esp. Option 1 and 2 in slide xx. John K also showed diagrams for options about message from Policy to SDN-R. Ahila showed design used in Slicing use case. Need to add details and get recording (which went to cloud).

RAN-Sim		3/8 Further discussion on including netopeer in RAN-Sim. See slides 2-6 in ppt attached here.

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ONAP_RANSim_E...ancement.pptx

3/30

Vishal presented slides below. We had a good discussion. Option 2 gives a little more flexibility for future use. John said they are willing to help with the A1 termination.
Netconf option instead of Websocket to RAN-Sim controller will need some integration work in RAN-Sim controller. Vishal will work with Niranjana on that.
Also sent a request to present in the ONAP/OSC Harmonization call today 3/30.

NearRT-implementation.pptx

4/19

Discussed change in terminology to avoid confusion. We are not implementing Near-RT RIC and xApp using OSC near-rt-ric.

Decision to change terminology to better capture the nature of the RAN-Sim enhancement.

Plan is to implement

- A1-Termination
- RAN App. (The App function is an abstraction which works with RAN-Sim, and does not implement E2 like an xApp on near-rt-ric)

5/3

RAN App will have code to take an A1 message with (poor) HO KPI for a cell relation, and take action to blacklist that cell relation.