2019-09-17 ONAP Architecture Meeting

Meeting agenda Notes

Key	Summary	Description	Status	Resolution
ONAP ARC-516	5G / ORAN & 3GPP Standards Harmonization	5G / ONAP // ORAN & 3GPP Standards Harmonization Jira | REQ-38 The following was presented: https://wiki.onap.org/download/attachments/50202249/ORAN3GPPONAP%20harmonization-v2.1.pptx?api=v2 - ORAN has defined O1 for OAM specs and a new interface called the A1 - A1 is between is the non-RT RIC and a Realtime RIC, which is treated as a VNF - Goals for Frankfurt: - A1 interface - Fault Assurance alignment of fault - Fault informatin - Uses VES - Configuration - - It is introducting an A1 adapter to SDNC. - There are two options being looked at, but it is leverage the CDS approach. - The basic approach is that in CDS the logic to map DMaaP message to the A1 interface (A1 mediator) - Frankfurt focssus on the A1 adapter. - No noted changes for O1 interfaces (VES, Netconf) with some changes. This is considered as OK from the onap architectuer prespective. *	CLOSED	Done

ONAP ARC-514	Run-time DB (was RT DB)	This is discussing a new ONAP platform component as a Runtime DB for storing run-time configuration and information that doesn't belong to A&AI inventoary (exo-inventary data). Use for change management, facilitate real-time operation LCM, ... allowing e.g. sync data, golden parameter templating etc. Proposing to start in ONAP R6 for 5G RAN network configuration data. While originally it was config DB, it is pivoting to be referred to as "runtime DB". 2019-10-29 Archcom - Ben walked through the draft project proposal. https://wiki.onap.org/pages/viewpage.action?pageId=71834216 - Ben invited people to attend his Friday meeting. 2019-10-15 Archcom - Ben presented a bit about the flows. - There wasn't enough time to go over all the flows. - It starts to have some logic for interpreting the subscription information from events and what to store. This is a cause for concern. 2019-09-17 Archcom Ben showed the work of describing the run-time DB. https://wiki.onap.org/display/DW/ARC+RunTime+DB+Component+Description+-+Frankfurt Next step is to show a flow. 2019-09-10 ArchCom: Ben presented the following slides: xyz - Gil brought up the storage of polices for the non-realtime RIC. - Tony brought up that the access control is very important in order to ensure that we don't have uncontrolled communication between the uses. The governance is important. - Proposal: draft up a definition phase, assuming that it could be used by multiple components. - There was a feeling that we should avoid placing data into this database that should go in A&AI. One use of the Database was to retain the data that a network function would need to be provided with if it was to fail and be restored. - It was suggested by Gil that it is a global service management and resource management database - Capture some pros and cons. - Leaning towards a capability as a common service as a working assumption. - Need to look at existing databases and see their relationships. 2019-09-3 ArchCom: https://wiki.onap.org/download/attachments/50202249/DataPersistencyRunTimeDB_03Sep2019v1.pptx?api=v2 Ben presented the following the slides: - It is data layer, or something else? - this comes into "how would we use it now" and how might we use it in the future? - There was a discussion on how to represent this in the architecture - but it is required to clarify how it is used first. - Is it intended be something that different components can share data between components, or each component owns their own namespace and the data is just for them. - What is the overlap with A&AI? - There was a discussion about the configuration DB/Runtime DB being an PNF inventory	IN PROGRESS	Unresolved
ONAP ARC-494	API Management / API GW proposal	2019-10-03 The drivers have indicated that there will not be a proposal for the Frankfurt timeframe. --- 2019-09-17 ArchCom A PoC on the API GW, integration fabric have performed a PoC. Davide did a introduction focussing on that it provides a means to show how to connect external APIs to ONAP. Manoj introduced: https://wiki.onap.org/display/DW/API+Fabric+Proof+of+Concept+Demo+Details	CLOSED	Done

- There was an introduction via slides then several demos
- It was commented that this is not connected to AAF at this stage, but has its own way to connect to authentication providers.
- The demos described the different GW plans
- The PoC was to demonstrate different roles of the API GW.
- The ingress gateway from the ISTIO project needs to be looked at
- There was feedback "https://github.com/apigee/istio-mixer-adapter/tree/master/adapter. This is ISTIO integration with Apigee. If POC takes care of ISTIO mixer integration with Gravitee, that would be of great help."
- It is based on gravittee
- Suggestion next step, see about the suitability for the External API .....
- Look to come bac kin a few week.

2019-06-04 ArchCom

There a discussion in preperation for the DDF. The idea was to go more into use cases, then the functionalilty required, then the project structure.

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2016-05-21 Archcom

Manoj has created a project proposal for discussion: https://wiki.onap.org/pages/viewpage.action?pageId=63999345 . As authors, they are not yet sure whether it should be a new project, or functionality to existing projects, however to document the idea the project template has been res-used. It covers:

- Consistency in API Management across projects
- API Façade and Standard API Development
- Integration with 3rd Party and Legacy Applications
- Finding balance between Platform functionality and Use Case functionality

Discussion

2019-05-21 ArchCom:

- Haibin was indicating that the API GW. ZTE have an internal solution which can be opensourced.
- ArchCom doesn't see this as a new functional component.
- ArchCom views that the APIGW functionally in MSB with the following notes:
  - ArchCom recomends that the APIGW functionality resides in MSB.
  - Monaj and Huabin to discuss the technology evolution and return to ArchCom, iether with an agreed evolution of expressing different needs
  - There was a discussino about ExtGW in MSB vs External APIs. External APIs exposes functional capabilities. ExtGW in MSB is communication connection.

2019-05-14 ArchCom:

- Continue the discussion from last week
- The problem statement:
  - Different API Management approaches
  - Stands alignment is a priority, could be a common components
  - External integratin might require interability with legacy and 3rd party components
  - Evolution of platform functional capability vs use case capability.
- There were suggestions that the API GW "plugs" into the MSB.
- It is not to replace the existing APIs, but to create an abstraction layer or a set of abstraction layers.
- There was comments to look a bit broader regarding possible re-use of existing 3PP source code.
- Next Steps:
  - Dig more into the functional archtiecture implitation
  - Discuss more the the required functionalities

2019-05-07 ArchCom:

Manoj prosented: slides. https://wiki.onap.org/download/attachments/50202249/APIGW_ONAP_Archcomm_v0.1.pdf?api=v2

- Haubing, mentioned MSB has an internal "external GW".
- There are ONAP components that use GPRC and REST interfaces directly.
- The problem statement is a critical slide:
  - There was questions regarding whether the problem statement was shared with PTLs

This was an introduction - Come back after speaking more with MSB and External APIs. There is a call for the request to clarify the problem statement.

3 issues

Recording: 2019-09-17 ArchCom Recording