# RunTime Config DB Meeting notes Apr 10, 2020

#### Date

10 Apr 2020

### **Attendees**

- Benjamin CheungJoanne Liu Rudel
- Swaminathan Seetharaman
- Ted Johnson
  Yuriy Malakov
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#### **ARCH WORK**

ARCHITECTURE WORK	WIKI LINK
ARCHITECTURE FLOWS	ARCHCOM: InfoFlow - RunTime Config DB Information Flow
COMPONENT DESCRIPTION	ARC RunTime DB Component Description - R6 Frankfurt
PROJECT PROPOSAL	RunTime Config DB Project Proposal (Oct 25 2019)

## **DISCUSSION**

Торіс	Discussion	
R6	Project as part of CCSDK (Yuriy Malakov)	
CCSDK -based Solution	ACTION: Sandeep Shah Presentation of no Shah have.	ew architecture with CCSDK (Yuriy Malakov ). How much bandwidth/capacity does Sandeep
	ACTION: Development demo & progress ( 3GPP TS28.541/TS28.540. maps to a data could extend the model. (3) Review work fr	) ORAN Yang models & data schema not available yet (waiting) & 5G Service Modeling U/C: structure we want to support. (2) can proceed to Dockerize solution. R4 MariaDB solution. om Ted. waiting for project.
	ACTION: Give RC0 status - Sandeep Shah	on RC0 status. Set up call with Sandeep Shah
	ACTION: Update ReadtheDocs https://git.c (Morgan R.) -Gerrit PTL submission +1 fror	nap.org/integration/tree/docs - Jira under Integration - invite team for review - invite PTL n reviewers. committer/Morgan +2 (someone in Integration project will do the Merge)
R7	RunTime Config DB Project Proposal (Oct 25 2019)	
Project Propos al	ACTION: PERFORMANCE - Open (#@#)	open items to get ballpark figures for # API requests.
	ACTION: LIFECYCLE - find out the Lifecyc	le State "enumerations" - is "incubation" right?
	ACTION: TSC Step #2 - Ben sent the TSC Joanne Catherine.	asking for slot. 26 Mar 2020 TSC. M4. RC0 bumped by a week. Q1 Who will be contributors.
	ACTION: Virtual Meeting - What is our de M0 wiki: https://wiki.lfnetworking.org/display	adline? April 21-23. Subcommittee meeting (LA USA). planning virtual plannig / presentations. /LN/2020+April+Virtual+Technical+Event
	ACTION: Peer Review Process Step #1 - submit to the TSC? Ask Kenny what is PEE	ONAP Projects Ready for PEER REVIEW? What is involved in that? What's the process? R REVIEW? Presentation to ARCH S/C
	ACTION: ID PTL/Contributors - who will b Finnerty), AT&T, IBM (Sandeep) commitme	e contributors, who wants to be the PTL. Resources & Committers from Ericsson (Tony nt in R7.

R7	
Separa	ACTION: Find PTL who wants to lead the RTCfgDB Project as independent component.
te	Email from Dan Timoney 14 Nov 2019
Compo nent	My understanding from Sandeep was that this work was very much a stretch for Frankfurt. So, I'm okay with work starting in Frankfurt, as long as its structured so that it's a separable component (i.e. as long as, if it's not completed in Frankfurt, the platform is not fundamentally broken). I would NOT support creating a separate repository, since there is a fair amount of overhead involved in maintaining each repository on an ongoing basis – both machine and human resources. The Linux Foundation itself has been pushing back on the number of repositories the ONAP projects have and there is now a new approval process needed in order to add new ones. If a new repository is needed, then this team will need to convince me why no existing repository can be used AND will need to provide a resource who is willing to maintain that repository (i.e dealing with security vulnerabilities; policing code coverage ; doing release builds, etc).
R7 Guilin	Requests for R7 Requirements are up.
Conton	Guilin release - functional requirements proposed list
t/	Timeline - Sign-off for R6 is May 7. Historically M0 kickoff for R7 is May 7th
ments	PROPOSALS FOR R7 GUILIN FOR WHAT WE PLAN TO BE DOING IN R7:
	<ol> <li>R7 Project Proposal (identify PTL, Project proposal, setup repo)</li> <li>=STEP 0= (Design time), (Setup DB) Yang Model development ORAN specification Yang Model in line with 3GPP. SQL structure.</li> <li>=STEP 0= Schema design/setup &amp; API</li> <li>=STEP 1= CMnotify generated by RanSIM extended (final standard format).</li> <li>=STEP 1= VES generation, Nokia Simulate DU simulate VES CMNotify message.</li> <li>=STEP 1-6= CMNotify (Nokia) Integration Step 2,3,4 with SON work Step 1,5,6</li> <li>=STEP 5/6= Mapping CMnotify contents into DB</li> <li>=STEP 6= API Updates</li> <li>=STEP 6= Interface to RTCDB (writing DB from SDN-R or RCDB-stand-alone-component)</li> </ol>
	SUMMARY OF THE STEPS FOR RTCDB "HOW IT OPERATES" (Reference):
	<ul> <li>STEP 0: Design time, Setup DB schema &amp; API (Onboarding).</li> <li>STEP 1: xNF (RAN Simulator) <u>GENERATES</u> a VES CMNotify - Wipro SON (R6 Done)</li> <li>STEP 1a: Simulator of VES CMNotify/"Standardsdefined/CM" (Nokia) (R7)</li> <li>STEP 2: DCAE VES Collector <u>RECEIVES</u> the CMNotify (VES) - Nokia (R7)</li> <li>STEP 3: DCAE <u>PROCESSES</u> VES Event- Nokia (R7)</li> <li>STEP 4: DCAE <u>PUBLISHES</u> onto DMaaP - Nokia (R7)</li> <li>STEP 5: CCSDK (Controller) <u>LISTENS</u> to DMaaP - Sandeep Shah (R6 Done) (R7)</li> <li>STEP 5a: RTCDB (stand-alone component) <u>LISTENS</u> to DMaaP (R7 new)</li> <li>STEP 6: RTCfgDB <u>UPDATES</u> DB with info - Sandeep Shah / Techmahindra (R6 Done) (R7)</li> </ul>
	A&AI FLOWS:
	STEP 16: Initial A&AI setup of DB (the setup of the DB with the initial set of all xNFs a "getall")
	STEP 16: A&AI Update (e.g. a new xNF is added or deleted)

Renami	RENAMING THE PROJECT ("Service" vs "Database")
ng the Project	Database
	#1 HISTORICAL PRECEDENCE - The original idea was a configuration database available at Runtime. Use cases to store. Historical been with the project since the beginning. <i>Name Inertia</i> . Operators will use. Historical precedence within AT&T. SON & Slicing depend on this project (scope)
	#2 Contents that it holds - Contents is configuration parameters from the network. Name reflects the initial content of database.
	Service
	Since working on project proposal, it has grown, the same argument works against use.
	#1 <b>QUALIFIERS</b> - A wide variety of qualifiers could be put there and it still won't cover. Would move to something more abstract. Abose and beyond a standard IT database. For example service information, policy information, CLAMP information, exo-inventory (information outside of A&AI), topology information, application information - it is conceivable that many other types of information could before. Config if someone wants to add additional information a place to hold information. e.g. in Bell Canada's case they store more than just configuration, the Operational Data & Current state of network. Collectors that gather metrics in VES consumed put in stateDB. Tied to inventory objects in A&AI self-link from A&AI want to know about interface PNF trying to keep two together, the configuration & the metrics representative what is currently happening in the network, state of <i>I/F</i> being up-down that's more of a state vs a configuration. OpenDaylight Operational data store. Scalability. Collectors & StateDB is yang-driven if collector follows yang-model data store can hold-values. Monitoring interface track as state.
	#2 Confederation of Databases - Core/Edge/Far Edge - Historical DB - current DB
	#3 MEANS VS ENDS - Database is a "means" technology not an "end" goal
	An engine, hubcap is a part of a automobile that provides a service: vehicular motion. A database is a specific technology and implementation.
	Requirements around for current data & historical (temporal) careful not to talk about the technology. Potentially more than one database.
	Data Persistency Service "functional" / Zu Tony Ben
	Configuration & Persistency Service / Joanne Tony Ben
	Operational Persistency Service / Bruno Tony Ben
	Run-Time Configuration DataBase "technology"
	State (of Network) Database what is state of network (storing more than just config)
	Configuration Operations Database (C.Op.DB) / Swami
	Golden Configuration Database / Fred
	(RunTime)(Operational)(Persistency) Policy Topology State Network Configuration Service Exo-Inventory Database
R7 GuiLin Develo pment	<ul> <li>CMNotify specification</li> <li>(Watch for): R6 VES 7.1.1 Baselined https://gerrit.onap.org/r/c/vnfrqts/requirements/+/100876 (VES Event Reg review) and https://gerrit.tonap.org/r/c/vnfrqts/requirements/+/100867 (VES Event Listener review) R7 VES 7.2 review open new updates to the VES listener should include CM VES event. Participate review.</li> <li>ACTION: R7 VES Common Header update to align with 3GPP SA5 (CR) Nokia/ ATT/ Orange/ Ericsson. Presentation for Monday 2PM UTC on Alla's Req S/C call. "ONAP-ORAN Harmonization". Vimal, Marge, Cormac, Damian. Domain "Standards-Defined" NameSpace "3GPP-CM-xxxx"</li> </ul>

# **SUPPORTING FILES**

Description	File

# RECORDING

Recording	File
Zoom	? Unknown Attachment



#### Action items