

# Configuration & Persistency Service Meeting notes Apr 29, 2020

## Date

29 Apr 2020

## Attendees

- Benjamin Cheung
- Tony Finnerty
- Michela Bevilacqua
- Mike Elliott
- Ciaran Johnston
- Bruno Sakoto
- Olivier Phénix
- Zu Qiang (Ericsson)
- Toine Siebelink
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DISCUSSED TSC PPT Questions

## 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)

## R6 DISCUSSION

TOPIC	DISCUSSION
<b>R6</b>  <b>CCSDK-based Solution</b>	<p>Project as part of CCSDK ( <a href="#">Yuriy Malakov</a> )</p> <ul style="list-style-type: none"><li><input type="checkbox"/> <b>ACTION:</b> <a href="#">Sandeep Shah</a> Presentation of new architecture with CCSDK ( <a href="#">Yuriy Malakov</a> ). How much bandwidth/capacity does Sandeep Shah have.</li><li><input type="checkbox"/> <b>ACTION:</b> Development demo &amp; progress (1) ORAN Yang models &amp; data schema not available yet (waiting) &amp; 5G Service Modeling U /C: 3GPP TS28.541/TS28.540. maps to a data structure we want to support. (2) can proceed to Dockerize solution. R4 MariaDB solution. could extend the model. (3) Review work from Ted. waiting for project.</li><li><input type="checkbox"/> <b>ACTION:</b> Give RC0 status - Sandeep Shah on RC0 status. Set up call with <a href="#">Sandeep Shah</a></li></ul>

## R7 DISCUSSION

Topic	Discussion
<b>R6 / R7</b>  <b>Read the Docs</b>	<p><b>Read the Docs</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> <b>ACTION:</b> Update ReadtheDocs <a href="https://git.onap.org/integration/tree/docs">https://git.onap.org/integration/tree/docs</a> - Jira under Integration - invite team for review - invite PTL (Morgan R.) -Gerrit PTL submission +1 from reviewers. committer/Morgan +2 (someone in Integration project will do the Merge)</li><li><input type="checkbox"/> New project Repo DOC directory (RST) in that Repo <a href="#">Andreas Geissler</a> Signoff for R6 May 2020; M0 for R7. If we are approved by TSC as a new project create a new Repo</li></ul>

<p><b>R7 TSC / Project Proposal</b></p>	<p>Configuration Persistence Service Project</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>ACTION: PERFORMANCE</b> - Open (#@#) open items to get ballpark figures for # API requests.</li> <li><input type="checkbox"/> <b>ACTION: LIFECYCLE</b> - find out the Lifecycle State "enumerations" - is "incubation" right?</li> <li><input type="checkbox"/> <b>ACTION: TSC Step #2</b> - Ben sent the TSC asking for slot. <b>26 Mar 2020</b> TSC. M4. RC0 bumped by a week. Q1 Who will be contributors. Joanne Catherine.</li> <li><input type="checkbox"/> <b>ACTION: Virtual Meeting</b> - What is our deadline? April 21-23. Subcommittee meeting (LA USA). planning virtual planning / presentations. M0 wiki: <a href="https://wiki.lfnetworking.org/display/LN/2020+April+Virtual+Technical+Event">https://wiki.lfnetworking.org/display/LN/2020+April+Virtual+Technical+Event</a></li> <li><input type="checkbox"/> <b>ACTION: Peer Review Process Step #1 - ONAP Projects</b> ... Ready for PEER REVIEW? What is involved in that? What's the process? submit to the TSC? Ask Kenny what is PEER REVIEW? Presentation to ARCH S/C</li> <li><input type="checkbox"/> <b>ACTION: ID PTL/Contributors</b> - who will be contributors, who wants to be the PTL. Resources &amp; Committers from Ericsson (<a href="#">Tony Finnerty</a>), AT&amp;T, IBM (Sandeep) commitment in R7.</li> <li><input type="checkbox"/> <b>Race Condition Simultaneous requests to update the same info</b> - Config Controller Persona / writers update / APPC VFC SDNC / EMS does update / New yang model will change, SDNR change in network SDNR does go device gets new Yang model puts into the Database. incremental Yang model / PNF package yang model schema (1 time activity) DB configuration - when you get a config change notification you get all the information you need parameter:newvalue. / who is the MASTER of the data? the mediator / Mirror data - Use Case / the owner controller-persona to update / database update writer</li> </ul>
<p><b>R7 Guilin Content / requirements</b></p>	<p>Requests for R7 Requirements are up.</p> <p><a href="#">Guilin release - functional requirements proposed list</a></p> <p>Timeline - Sign-off for R6 is May 7. Historically M0 kickoff for R7 is May 7th</p> <p><b><u>PROPOSALS FOR R7 GUILIN FOR WHAT WE PLAN TO BE DOING IN R7:</u></b></p> <ol style="list-style-type: none"> <li>1. R7 Project Proposal (identify PTL, Project proposal, setup repo)</li> <li>2. =STEP 0= (Design time), (Setup DB) Yang Model development ORAN specification Yang Model in line with 3GPP. SQL structure.</li> <li>3. =STEP 0= Schema design/setup &amp; API</li> <li>4. =STEP 1= CMnotify generated by RanSIM extended (final standard format).</li> <li>5. =STEP 1= VES generation, Nokia Simulate DU simulate VES CMNotify message.</li> <li>6. =STEP 1-6= CMNotify (Nokia) Integration Step 2,3,4 with SON work Step 1,5,6</li> <li>7. =STEP 5/6= Mapping CMnotify contents into DB</li> <li>8. =STEP 5a= New Development for Independent component to get VES off of DMaaP</li> <li>9. =STEP 6= API Updates</li> <li>10. =STEP 6= Interface to RTCDB (writing DB from SDN-R or RCDB-stand-alone-component)</li> </ol> <p><b><u>SUMMARY OF THE STEPS FOR RTCDB "HOW IT OPERATES" (Reference):</u></b></p> <ul style="list-style-type: none"> <li>• <b>STEP 0:</b> Design time, Setup DB schema &amp; API (Onboarding).</li> <li>• <b>STEP 1:</b> xNF (RAN Simulator) <b>GENERATES</b> a VES CMNotify - Wipro SON (R6 Done)</li> <li>• <b>STEP 1a:</b> Simulator of VES CMNotify/"Standardsdefined/CM" (Nokia) (R7)</li> <li>• <b>STEP 2:</b> DCAE VES Collector <b>RECEIVES</b> the CMNotify (VES) - Nokia (R7)</li> <li>• <b>STEP 3:</b> DCAE <b>PROCESSES</b> VES Event- Nokia (R7)</li> <li>• <b>STEP 4:</b> DCAE <b>PUBLISHES</b> onto DMaaP - Nokia (R7)</li> <li>• <b>STEP 5:</b> CCSDK (Controller) <b>LISTENS</b> to DMaaP - <a href="#">Sandeep Shah</a> (R6 Done) (R7)</li> <li>• <b>STEP 5a:</b> RTCDB (stand-alone component) <b>LISTENS</b> to DMaaP (R7 new)</li> <li>• <b>STEP 6:</b> RTCfgDB <b>UPDATES</b> DB with info - <a href="#">Sandeep Shah</a> / Techmahindra (R6 Done) (R7)</li> </ul> <p><b><u>A&amp;AI FLOWS:</u></b></p> <p><b>STEP 1...6:</b> Initial A&amp;AI setup of DB (the setup of the DB with the initial set of all xNFs a "getall")</p> <p><b>STEP 1...6:</b> A&amp;AI Update (e.g. a new xNF is added or deleted)</p>


	R7 Topic	Description & Links
	Usage of CPS -  OOF /SON /PCI (Cell info)  E2E Network Slicing (Slicing info)  Harmonization (Std-Def VES)	Virtual F2F mentioned the C&PS project.  Those other use cases have dependency to Use cases.  We need to attend U/C weekly meetings; sync  <a href="#">Guilin (R7) - Use Cases (and Requirements in Use Cases)</a>  <a href="#">Guilin release - functional requirements proposed list</a>
	Interaction & Dependencies Use Case	Interaction spreadsheet  Sync between these teams.  Joint meeting - Invitee on a particular in the schedule
	TSC Project Proposal	<a href="#">Configuration Persistence Service Project</a>
	Project Home Page	<a href="#">sample-landingpage Project Home Page</a>
	Project Repository	Create Repo: <a href="#">Resources and Repositories (Deprecated)</a>  Process to create Repo. Ticket
	Architecture S/C	Architecture Proposal  ONAP Architecture Review process: <a href="#">Project Architectural Review Requirements and Process (Draft)</a> to M1 Project PTLs/Feature Sponsors request a review by email from the chair of the arch subcommittee. The chair of the arch subcommittee creates a JIRA issue for the review and emails a link to the project PTL. The project PTL/Feature Sponsor adds the JIRA issue link to the architecture review JIRA task in the M1 epic, as confirmation that a review has been requested.
	R7 Wiki Page	<a href="#">Configuration &amp; Persistency Service R7</a>
R7 Guilin Development	CMNotify specification <div> <input type="checkbox"/> <b>(Watch for):</b> R6 VES 7.1.1 Baselined <a href="https://gerrit.onap.org/r/c/vnfrqts/requirements/+100876">https://gerrit.onap.org/r/c/vnfrqts/requirements/+100876</a> (VES Event Reg review) and <a href="https://gerrit.onap.org/r/c/vnfrqts/requirements/+100867">https://gerrit.onap.org/r/c/vnfrqts/requirements/+100867</a> (VES Event Listener review)  R7 VES 7.2 review open new updates to the VES listener should include CM VES event. Participate review. </div> <div> <input type="checkbox"/> <b>ACTION:</b> 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" </div>	

## PROJECT NAME DISCUSSION

TOPIC	DESCRIPTION
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Renaming the Project	<p><b>RENAMING THE PROJECT ("Service" vs "Database")</b></p> <p><b>Database</b></p> <p>#1 <b>HISTORICAL PRECEDENCE</b> - 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&amp;T. SON &amp; Slicing depend on this project (scope)</p> <p>#2 <b>Contents that it holds</b> - Contents is configuration parameters from the network. Name reflects the initial content of database.</p> <p><b>Service</b></p> <p>Since working on project proposal, it has grown, the same argument works against use.</p> <p>#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. Abuse and beyond a standard IT database. For example service information, policy information, CLAMP information, exo-inventory (information outside of A&amp;AI), topology information, application information - it is conceivable that many other types of information could be. 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 &amp; Current state of network. Collectors that gather metrics in VES consumed put in <b>stateDB</b>. Tied to inventory objects in A&amp;AI self-link from A&amp;AI want to know about interface PNF trying to keep two together, the configuration &amp; the metrics representative what is currently happening in the network. state of I/F being up-down that's more of a state vs a configuration. OpenDaylight Operational data store. Scalability. Collectors &amp; StateDB is yang-driven if collector follows yang-model data store can hold-values. Monitoring interface track as state.</p> <p>#2 <b>Confederation of Databases</b> - Core/Edge/Far Edge - Historical DB - current DB</p> <p>#3 <b>MEANS VS ENDS</b> - Database is a "means" technology not an "end" goal</p> <p>An engine, hubcap is a part of a automobile that provides a service: vehicular motion. A database is a specific technology and implementation.</p> <p>Requirements around for current data &amp; historical (temporal) careful not to talk about the technology. Potentially more than one database.</p> <p>Data Persistency Service "functional" / Zu Tony Ben</p> <p>Configuration &amp; Persistency Service / Joanne Tony Ben</p> <p>Operational Persistency Service / Bruno Tony Ben</p> <p>Run-Time Configuration DataBase "technology"</p> <p>State (of Network) Database what is state of network (storing more than just config)</p> <p>Configuration Operations Database (C.Op.DB) / Swami</p> <p>Golden Configuration Database / Fred</p> <p>(RunTime)(Operational)(Persistency) Policy Topology State Network Configuration Service Exo-Inventory Database</p>
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## SUPPORTING FILES

Description	File
TSC Presentation	 <p>ConfigurationPe...29Ap2020v5.pptx</p>

RECORDING

Recording	File
Zoom	<div> zoom_0.mp4</div>
Audio Only	<div> audio_only.m4a</div>
Chat	<div> playback.m3u</div>

Action items

