

Configuration Persistence Service Meeting Notes & Recordings

Date Range

May 1, 2020 through December 31, 2020

R6 DISCUSSION

TOPIC	DISCUSSION
R6 CCSDK-based Solution	Project as part of CCSDK (Yuriy Malakov) ☐ ACTION: Sandeep Shah Presentation of new architecture with CCSDK (Yuriy Malakov). How much bandwidth/capacity does Sandeep Shah have. ☐ ACTION: Development demo & progress (1) ORAN Yang models & data schema not available yet (waiting) & 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. ☐ ACTION: Give RC0 status - Sandeep Shah on RC0 status. Set up call with Sandeep Shah 2: Frankfurt Release Integration Testing Status / Frankfurt Release Key Updates
R6 Integrati on Updates	(Swami) For the CPS requirement in Guilin (REQ-322), we noticed that Reshma/my name is included as Integration Leads. For the impacts related to SON use case, which will be covered as part of the SON use case testing, this is OK for us. However, we are not be able to commit resources at this time for testing additional aspects (if any) – of course, I can still check during the time of testing reg. the feasibility to cover any additional aspects. (Swami): June 10, 2020: The Config DB which is the predecessor CPS (or as we knew it earlier) supports CRUD operations – in particular it supports APIs such as the foll. It's APIs are used by SDN-C (R) to write into it, and by SDN-C (R), OOF and DCAE (SON-Handler MS) to read from it. I am not sure if there is a formal documentation in readthedocs – perhaps Sandeep can confirm. • GET /api/sdnc-config-db/v3/getCell/{cellId} • GET /api/sdnc-config-db/v3/getCellList/{networkId}/{ts} • GET /api/sdnc-config-db/v3/getNbrCellsNetwork/{networkId} • GET /api/sdnc-config-db/v3/getNbrList/{cellId}/{ts} • GET /api/sdnc-config-db/v3/getPCI/{cellId}/{ts} • GET /api/sdnc-config-db/v3/getPnflid/{cellId}/{ts} • PUT /api/sdnc-config-db/v3/createNbr/{cellId} • PATCH /api/sdnc-config-db/v3/modifyNbrHO/{cellId}/{targetCellId} • PATCH /api/sdnc-config-db/v3/modifyPci/{cellId} • PATCH /api/sdnc-config-db/v3/modifyPnflid/{cellId} • DELETE /api/sdnc-config-db/v3/deleteNbr/{cellId}/{targetCellId}

R7 DISCUSSION

Topic	Discussion
R6 / R7 Readth eDocs	☐ ACTION: Update ReadtheDocs https://git.onap.org/integration/tree/docs - 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) ☐ New project Repo DOC directory (RST) in that Repo Andreas Geissler Signoff for R6 May 2020; M0 for R7. If we are approved by TSC as a new project create a new Repo
R7 Guilin Conten t / require ments	

Requests for R7 Requirements are up.

[Guilin release - functional requirements proposed list](#)

Timeline - Sign-off for R6 is May 7. Historically M0 kickoff for R7 is May 7th

PROPOSALS FOR R7 GUILIN FOR WHAT WE PLAN TO BE DOING IN R7:

1. R7 Project Proposal (identify PTL, Project proposal, setup repo)
2. =STEP 0= Initial Database Setup
3. =STEP 0= (Design time), (Setup DB) Yang Model development ORAN specification Yang Model in line with 3GPP. SQL structure.
4. =STEP 0= Schema design & API
5. =STEP 1= CMNotify generated by RanSIM extended (final standard format).
6. =STEP 1= VES generation, Nokia Simulate DU simulate VES CMNotify message.
7. =STEP 1-6= CMNotify (Nokia) Integration Step 2,3,4 with SON work Step 1,5,6
8. =STEP 5/6= Mapping CMNotify contents into DB
9. =STEP 5a= New Development for Independent component to get VES off of DMaaP
10. =STEP 6= API Updates
11. =STEP 6= Interface to RTCDB (writing DB from SDN-R or RCDB-stand-alone-component)

SUMMARY OF THE STEPS FOR RTCDB "HOW IT OPERATES" (Reference):

- **STEP 0:** Design time, Setup DB schema & API (Onboarding).
 - **STEP 1:** xNF (RAN Simulator) GENERATES a VES CMNotify - Wipro SON (R6 Done)
 - **STEP 1a:** Simulator of VES CMNotify/"Standardsdefined/CM" (Nokia) (R7)
 - **STEP 2:** DCAE VES Collector RECEIVES the CMNotify (VES) - Nokia (R7)
 - **STEP 3:** DCAE PROCESSES VES Event- Nokia (R7)
 - **STEP 4:** DCAE PUBLISHES onto DMaaP - Nokia (R7)
-  **REQ-327** - ONAP/3GPP & O-RAN Alignment-Standards Defined Notifications over VES (Guilin) DONE
- **STEP 5:** CCSDK (Controller) LISTENS to DMaaP - [Sandeep Shah](#) (R6 Done) (R7)
-  **CCSDK-2392** - Enhancements for OOF SON use case in Honolulu release CLOSED
- **STEP 5a:** RTCDB (stand-alone component) LISTENS to DMaaP (R7 new)
 - **STEP 6:** RTCfgDB UPDATES DB with info - [Sandeep Shah](#) / Techmahindra (R6 Done) (R7)

A&AI FLOWS:

STEP 1...6: Initial A&AI setup of DB (the setup of the DB with the initial set of all xNFs a "getall")

STEP 1...6: A&AI Update (e.g. a new xNF is added or deleted)

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 CPS project. Those other use cases have dependency to Use cases. We need to attend U/C weekly meetings; sync Guilin (R7) - Use Cases (and Requirements in Use Cases) Guilin release - functional requirements proposed list OOF SON interaction  REQ-346 - 5G OOF SON use case requirements for Guilin release DONE NFR for CCSDK/SDN-C in the Guilin Impact View per Component
Interaction & Dependencies Use Case	Interaction spreadsheet Sync between these teams. Joint meeting - Invitee on a particular in the schedule
TSC Project Proposal	Configuration Persistence Service Project
Project Home Page	sample-landingpage Project Home Page
Project Repository	Create Repo: Resources and Repositories (Deprecated) Process to create Repo. Ticket
Architecture S/C	Architecture Proposal ONAP Architecture Review process:Project Architectural Review Requirements and Process (Draft) 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	Configuration & Persistency Service R7

For Honolulu REQ-Jira (copied from REQ-322)

Configuration & Persistency Service: (Code Impact)

- Leverage (Maria DB) as mS CPS to support the logical data model/devise model.
- Build the data model for real time presentation of 5G network and store the network element data to the CPS database
- Initialize CPS Database including A&AI setup, database schema setup, with initial values.
- Receive Config information updates from SDN-R via Netconf and with VES notification.
- Support all vendor specific Configuration Information Model (CIM/Yang)
- Impact: Code Impact
- Companies Supporting: Ericsson, Nokia, AT&T, WiPro
- Number Developers/Testers: 7

Email Swami:

PFB comment from TSC for the OOF SON requirement. With reference to resource commitment:

	• Policy: Pam - Shall I indicate AT&T shall cover it, while we subsequently discuss what all enhancements we can do in Guilin timeframe, as well as check reg. some of the aspects where you indicated use case team should contribute (e.g., separate Drools file, which would have to be done by Wipro). • SDN-R/CCSDK: Sandeep - Shall I indicate IBM? • CPS: Shankar/Ben - Given the Guilin release timeframe, I think we have to go for the simplest option (1) and indicate no impact to CPS, where we only change the yang models, and SDN-R continues to do the mapping. <u>modify CCSDK solution to extend interfaces (OOE /SON/PCI Team updates). R7 Solution of C&PS (evolution "ConfigDB" = C&PS) Hard code information</u> • <u>R6 C&PS 1.0 = CCSDK/SDNC solution / R7 C&PS 1.1 = CCSDK/SDNC evolution+MDCPS PoC / R8 C&PS 2.0 = Standalone component</u>
R7 Guilin Development	CMNotify specification ☐ (Watch for): R6 VES 7.1.1 Baselined https://gerrit.onap.org/r/c/vnfrqts/requirements/+100876 (VES Event Reg review) and https://gerrit.onap.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. ☐ 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" ☐ The CCSDK work will be in OOE SON PCI team  CCSDK-2392 - Enhancements for OOF SON use case in Honolulu release CLOSED should be mapped to  REQ-345 - 5G OOF SON use case requirements for Guilin release DONE ☐ (Generic Requirement) to consider Non-Real Time RIC Pawel Slowikowski

Model Driven C&PS PoC	Proposal (by Ciaran Johnston et al) as a step of Model Driven ONAP, Model Driven CPS. See slides in the Project Proposal page, and also in the R7 CPS Wiki. Question: Graph DB? Answer: type of data from xNF to be hierarchical which would fit in a Graph DB. doesn't have to be that though. Likely to be one or more underlying database technologies. time series. Question: Model driven CPS, uS on-boarding in CCSDK. If you plan to do modeling work in R7, consensus from Arch S/C. Answer: would need CPS team, modeling, Arch S/C to be aligned. Want something that can be demonstrated/delivered in R7. Question: Are there dependencies on platform components? Answer: TBD 22 May 2020 - Looking at internal sourcing to get development resources. Sync with theodore johnson 03 Jul 2020 - Status ready to cut code off of x CC-SDK repo. Ongoing analysis. Resourcing Toine has started, 2 new people will be added in August 1, 2020. Present to Architecture S/C before end of July. Engaged Modeling S/C. Visible Yang modeled to be consumed in ONAP. Modeling work will happen in <table border="1"> <thead> <tr> <th>Topic</th><th>Page or Wiki</th></tr> </thead> <tbody> <tr> <td>PoC Page</td><td></td></tr> <tr> <td>PoC Issues, Decisions and Assumptions</td><td>Issues page: Issues decisions and assumptions</td></tr> <tr> <td>Main PoC REQ JIRA</td><td>PoC Jira  REQ-384 - Define and prove the concept of model driven in the context of CPS </td></tr> <tr> <td>PoC Story Jiras</td><td>CCSDK  CPS-13 - Configuration & Persistency Service PoC Preparations  Modeling Jira:  MODELING-382 - Model Driven Application Data - Modeling Work </td></tr> <tr> <td>Time Series management TSDB</td><td> - Choice of IT DB (feeds in). Choice of DB to best fit to the use case. Implement TSDB in PostGres or MariaDB, SQL extensions for TS analysis. Issue is how good is the performance. Not as good as specialized Influx DB. Postgres 10 direct it to store TS DB similar to influx. Database derived from postgres. Timescale DB derived from postgres. https://en.wikipedia.org/wiki/Master_data_management - PM Data how to aggregate avg. performance over time. for ML training data or ML model input. - Ted Johnson MCX app, RT RIC - Nokia to install influx DB to manage TS. </td></tr> <tr> <td>Modeling</td><td> Model Concept for PoC & presentation Support for CPS Model Driven PoC R8+ xNF models. Access to CPS DB info. </td></tr> </tbody> </table>	Topic	Page or Wiki	PoC Page		PoC Issues, Decisions and Assumptions	Issues page: Issues decisions and assumptions	Main PoC REQ JIRA	PoC Jira  REQ-384 - Define and prove the concept of model driven in the context of CPS 	PoC Story Jiras	CCSDK  CPS-13 - Configuration & Persistency Service PoC Preparations  Modeling Jira:  MODELING-382 - Model Driven Application Data - Modeling Work 	Time Series management TSDB	- Choice of IT DB (feeds in). Choice of DB to best fit to the use case. Implement TSDB in PostGres or MariaDB, SQL extensions for TS analysis. Issue is how good is the performance. Not as good as specialized Influx DB. Postgres 10 direct it to store TS DB similar to influx. Database derived from postgres. Timescale DB derived from postgres. https://en.wikipedia.org/wiki/Master_data_management - PM Data how to aggregate avg. performance over time. for ML training data or ML model input. - Ted Johnson MCX app, RT RIC - Nokia to install influx DB to manage TS.	Modeling	Model Concept for PoC & presentation Support for CPS Model Driven PoC R8+ xNF models. Access to CPS DB info.
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State Database PoC	Bruno Sakoto , Olivier Phénix Bell Canada Leading a PoC related to State management using the CPS project. Communication via Kafka topic (DMaaP). Question: Are there dependencies on platform components? Answer: TBD Wiki: in progress Bruno Sakoto - Listen to Recording from 08 May 2020 Question from Samuli Silvius - State Management was interesting could we get the basic arch picture and def lines of description? Having references e.g. to A&AI is better solution than planned CPS to copy inventory data ANSWER: We are going to prepare a public page and share with you.														

Network Slicing & C&PS	CPS w.r.t. Network Slicing: (Swami)
	For the Network Slicing use case, we are still working out the details w.r.to RAN slicing, and are also in discussion with O-RAN folks. We expect it to take 1-2 weeks to conclude. Once it is fairly clear, we should discuss reg. the CPS impacts for Guilin.
	For now, we have created Jira SDNC-1199 for the CPS requirements for this use case. As of now, we may not have resources to commit for implementing the updates in CPS (but still checking), in this scenario, there are 2 alternatives:
	1. The impacts to CPS (which I expect to be persistence & retrieval of some basic RAN slice config related data) can be handled by existing CPS committed resource
	(or) 1. The details are stored 'locally' in a DB in SDN-C for example. In the next release, it is moved to CPS.
	(EMAIL) from Swami 27 May 2020
	For Network Slicing use case, for RAN Slicing, we will be needing a minimal set of information elements for initial RAN configuration and network slice-subnet specific configuration. Our current R7 GUILIN proposal is to extend ConfigDB with the required aspects for Guilin release, and once CPS takes off as an official ONAP project in HOLULU R8 H-release , the work can be taken over into CPS.

R8 Honolulu Discussion

TOPIC	DESCRIPTION
Requirement S/C	Presentation on July 27th 27 Jul 2020
R8 TSC / Project Proposal	Configuration Persistence Service Project ☐ ACTION: PERFORMANCE - Open (@@#) open items to get ballpark figures for # API requests. ☐ ACTION: TSC Scheduling & Presentation - Represent at the TSC - 21 May 2020 (TSC canceled); Tues R6 status; Thursday for general topics 28 May 2020 . Stakeholders of TSC presocialization Q&A. Schedule pre-review meeting w/ people who asked questions. SCHEDULE MAY 28 TSC 2020-05-28 and scheduled for JUNE 4 2020 TSC 2020-06-04 ☐ ACTION: Deadline? - M0/M1 project proposal objective by the TSC. ☐ ACTION: Peer Review Process Step #1 - ONAP Projects - Presentation to ARCH S/C

TERMINOLOGY DISCUSSION

TOPIC	DESCRIPTION
C&PS versions	CPS 1.0 - This is the evolution of ConfigDB in the CC-SDK / SDN-C. this solution was initially coded in R3 for the OOF/SON/PCI Use Case and was referred to as "ConfigDB" using a MariaDB ITDM solution. Because in R7 Guilin planning, there is some clarity needed to identify the different tracks of development, the notation is introduced here, "CPS 1.0" to allow people to have a common "language" to refer to a body of work. This was done in the R6 time frame. CPS 1.1 - This is the continuation of the CPS 1.0 solution (see above). Updates will involve schema and interface changes for additional data supported in the CPS database. This will be introduced in the R7 Guilin time frame. Thus, when someone refers to CPS, in the R7 time frame they are referring to the CPS 1.1 solution. Additionally, there are two CPS related PoC going on the Model-Driven CPS and State Management PoC (Bell Canada) and when referring to R7 CPS, work done in these PoC are also included. CPS 2.0 - CPS 2.0 is the stand-alone project. In R8 Honolulu, the goal is to have CPS become its own stand-alone project. Thus, a presentation to the Architecture S/C and TSC will be made again to petition for a stand-alone project.

RECORDING

Date	Zoom Recording	Audio Only	
01 May 2020	(Overwritten)	(Overwritten)	
08 May 2020	(Overwritten)	(Overwritten)	
13 May 2020	(Overwritten)	(Overwritten)	TSC Answers

15 May 2020	(Overwritten)	(Overwritten)	PoC
22 May 2020	zoom_0.mp4	audio_only.m4a	
28 May 2020	202005My28_zoom_0.mp4	202005My28_audio_only.m4a	
29 May 2020	202005My29-zoom_0.mp4	202005My29-audio_only.m4a	
05 Jun 2020	zoom_0_CPSJune052020.mp4	audio_only_CPSJune052020.m4a	
12 Jun 2020	zoom_0202006Jn12.mp4	audio_only202006Jn12.m4a	
19 Jun 2020	zoom_0CPS-202006Jn19.mp4	audio_onlyCPS-202006Jn19.m4a	
25 Jun 2020	202006Jn25DDF-ConfigurationPersistencySvcOverview.mp4	202006Jn25DDF-ConfigurationPersistencySvcOverview.m4a	VDDF C&PS Overview
25 Jun 2020	202006Jn25DDF-ModelDrivenC&PS_PoC.mp4	202006Jn25DDF-ModelDrivenC&PS_PoC.m4a	VDDF MD C&PS PoC
26 Jun 2020	C&PSzoom202006Jn26.mp4	audio_onlycps202006jn26.m4a	
03 Jul 2020	zoom_CPSFriJuly032020.mp4	audio_onlyCPSFriJuly032020.m4a	
10 Jul 2020	zoom_202007Jy10.mp4	audio_only202007Jy10.m4a	
17 Jul 2020	zoom_202007Jy17.mp4	audio_only202007Jy17.m4a	
24 Jul 2020	zoom_202007Jy24.mp4	audio_only 202007Jy24.m4a	
31 Jul 2020	zoom_202007Jy31.mp4	audio_only202007Jy31.m4a	
07 Aug 2020	zoom_202008Ag07.mp4	audio_only202008Ag07.m4a	
14 Aug 2020	zoom_202008Ag14.mp4	audio_only202008Ag14.m4a	
21 Aug 2020	zoom_202008Ag21.mp4	audio_only 202008Ag21.m4a	
28 Aug 2020	zoom_202008Ag28.mp4	audio_only202008Ag28.m4a	
04 Sep 2020	CPS - 202009Sp04.mp4	CPS - 202009Sp04.m4a	
11 Sep 2020	CPS_2020_09Sp11.mp4	CPS_2020_09Sp11audio.m4a	
18 Sep 2020	202009Sp18_zoom_0.mp4	202009Sp18_audio_only.m4a	
25 Sep 2020	202009Sp25_zoom_0.mp4	202009Sp25_audio_only.m4a	
28 Sep 2020	CPS ONAP PlugFest 28 Sep 2020 .mp4		
30 Sep 2020	202009Sp30TSCPrep_zoom_0.mp4	202009Sp30TSCPrep_audio_only.m4a	
02 Oct 2020	202010Oc02-zoom_0.mp4	202010Oc02-audio_only.m4a	
09 Oct 2020	202010Oc09CPS_zoom_0.mp4	202010Oc09CPS_audio_only.m4a	
15 Oct 2020	202010Oc15-CPSDDF_Talk-Demo.mp4	202010Oc15-CPSDDF_Talk-DemoAudio.m4a	
16 Oct 2020	202010Oc16CPS_zoom_0.mp4	202010Oc16CPS_audio_only.m4a	
23 Oct 2020	202010Oc23CPS_zoom_0.mp4	202010Oc23CPS_audio_only.m4a	
30 Oct 2020	202010Oc30CPS-zoom_0.mp4	202010Oc30CPS-audio_only.m4a	
06 Nov 2020	202011Nv06_zoom_0.mp4	202011Nv06_audio_only.m4a	
13 Nov 2020	202011Nv13-zoom_0.mp4	202011Nv13-audio_only.m4a	
20 Nov 2020	202011Nv20-zoom_0.mp4	202011Nv20-audio_only.m4a	
27 Nov 2020	202011Nv27_zoom_0.mp4	202011Nv27_audio_only.m4a	
04 Dec 2020	202012Dc03_zoom_0.mp4	202012Dc03_audio_only.m4a	
11 Dec 2020	202012Dc11CPS-zoom_0.mp4	202012Dc11CPS-audio_only.m4a	
18 Dec 2020	202012Dc18-zoom_0.mp4	202012Dc18-audio_only.m4a	

ATTENDEES WEEKLY ROSTER

Date	Attendees	Topic
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01 May 2020	Benjamin Cheung Bruno Sakoto Mike Elliott Olivier Phénix Tony Finnerty Vimal Begwani Zu Qiang (Ericsson) Theodore Johnson Ciaran Johnston Samuli Silvius N.K. Shankar Marc-Alexandre Choquette	TSC Answer Discussion Architecture S/C presentations
08 May 2020	Benjamin Cheung Bruno Sakoto Toine Siebelink Samuli Silvius Swaminathan Seetharaman Joanne Liu Rudel Tony Finnerty Mike Elliott Theodore Johnson Marcin Krasowski Timo Puha Andy Mayer Vimal Begwani Bob Papa Ciaran Johnston Zu Qiang (Ericsson) Michela Bevilacqua Shankar N.K. Junfeng Wang Oskar Malm Marc-Alexandre Choquette Chuyi Guo	Bell Canada & State Management 5G Service Modeling & CPS - TSC Answers/Response Michela - introduction of Cell Model
13 May 2020	Benjamin Cheung Tony Finnerty Toine Siebelink Zu Qiang (Ericsson) Fred Feisullin Joanne Liu Rudel	TSC Answers discussion Amar Kapadia in ONAP R6 Solution Brief
15 May 2020	Benjamin Cheung Toine Siebelink Tony Finnerty Oskar Malm Ciaran Johnston Zu Qiang (Ericsson) Fred Feisullin Michela Bevilacqua Bruno Sakoto Theodore Johnson Mike Elliott Joanne Liu Rudel Marc-Alexandre Choquette Samuli Silvius N.K. Shankar Junfeng Wang Cl audio David Gasparini	Model Driven architecture PoC TSC Answers discussion (finished)
22 May 2020	Benjamin Cheung Bruno Sakoto Olivier Phénix theodore johnson Tony Finnerty Ciaran Johnston Claudio David Gasparini Joanne Liu Rudel Marcin Sebastian Krasowski Zu Qiang (Ericsson) Pawel Slowikowski N.K. Shankaranarayanan	TSC - Agenda POC - Model Driven LF F2F DDF M0 for R7
28 May 2020	Benjamin Cheung Zu Qiang (Ericsson) Michela Bevilacqua Ciaran Johnston Tony Finnerty Catherine Lefèvre Krzysztof Opasiak Scott Blandford Andy Mayer Trevor Lovett Oskar Malm Toine Siebelink	
29 May 2020	Benjamin Cheung Marcin Sebastian Krasowski Pawel Slowikowski (Samsung / NonRT RIC / A1 policy mgr) Tony Finnerty Toine Siebelink N.K. Shankar Michela Bevilacqua Ciaran Johnston Claudio David Gasparini Swaminathan S. Zu Qiang (Ericsson) Samuli Silvius Fred Feisullin Joanne Liu Rudel	Joint OOF SON PCI discussion TSC Q&A (pre-review)  REQ-322 - Configuration & Persistency Service in R7 DONE (M0) Ciaran's proposal for PoC R7 > R8 Project Prop Q: 3GPP-PM, Q: FM&PM
05 Jun 2020	Benjamin Cheung Joanne Liu Rudel Vimal Begwani Marcin Sebastian Krasowski Tony Finnerty Zu Qiang (Ericsson) Michela Bevilacqua Pawel Slowikowski theodore johnson Yuri y Malakov Fred Feisullin Junfeng Wang	TSC 2020-06-11 VF2F / DDF https://events.linuxfoundation.org/lfn-dev-test-forum/ OPEN POINT: CCSDK-2392 (OOF SON PCI)
08 Jun 2020	Benjamin Cheung William Reehil James Forsyth Marge Hillis Linda Horn Fred Feisullin Vivian Pressley Scott Blandford Zu Qiang (Ericsson) Andy Mayer Joanne Liu Rudel Ryan Hallahan	Inventory Migration Use Case
12 Jun 2020	Benjamin Cheung Tony Finnerty Marcin Sebastian Krasowski theodore johnson Michela Bevilacqua Fred Feisullin Zu Qiang (Ericsson) Samuli Silvius Swaminathan Seetharaman Marc-Alexandre Choquette	MD C&PS PoC M0 Milestone REQ
19 Jun 2020	Benjamin Cheung Tony Finnerty Toine Siebelink Bruno Sakoto Sanjay Singh theodore johnson Ciaran Johnston Marcin Sebastian Krasowski Pawel Slowikowski Joanne Liu Rudel Zu Qiang (Ericsson) Fred Feisullin N.K.Shankar	Ted - Steaming Time Series Temporal Database Management (TSDB) Tony - MD C&PS PoC

25 Jun 2020	Benjamin Cheung Ciaran Johnston Aditya Puthuparambil Ajith Sreekumar Alessandro Gerardo D'Alessandro Atta Zabihi Avi Chapnick Brinda Santh Muthuramalingam Bruno Sakoto Claudio David Gasparini David Perez Caparros Deepak Majjiga Eric Debeau Felix Katz Frank Kelly Jacob Yackenovitch Jacqueline Beaulac Jason Hunt Joanne Liu Rudel John Keeney Junfeng Wang Ken KANISHIMA KINGSLEY LAWRENCE Liam Fallon Linda Horn Marge Hillis Oskar Marlm Phil Robb Ram Krishna Verma Rishi Tandon Sandeep Shah Scott Blandford Stavros Kanarakis Takuya Kato Timo Perala Toine Siebelink Tony Finnerty Vimal Begwani ZHUANGYANG CHEN Zu Qiang (Ericsson) Kamel Idir Andy Mayer Ajith Sreekumar	LF Virtual DDF - C&PS overview
25 Jun 2020	(same as above - ibid) atsushi yoshida Byung-Woo Jun Chaker Al-Hakim Hiroshi Dempo Isaac Manuel Raj Pawel Slowikowski Prem Sankar Gopannan Yukihiro Kishimoto	LF Virtual DDF - MD PoC Presentation
26 Jun 2020	Benjamin Cheung Tony Finnerty Toine Siebelink Bruno Sakoto	Ted - Steaming Time Series Temporal Database Management (TSDB) Tony - MD C&PS PoC
03 Jul 2020	Benjamin Cheung Tony Finnerty Toine Siebelink Bruno Sakoto Joanne Liu Rudel Ciaran Johnston Ram Krishna Verma Pawel Slowikowski Zu Qiang (Ericsson)	PoC status Resourcing of PoC Decision and analysis process (using confluence) PoC Jira items PoC Architecture Options - (refine present Jul 10)
10 Jul 2020	Benjamin Cheung Tony Finnerty Bruno Sakoto theodore johnson Ciaran Johnston Fred Feisullin Joanne Liu Rudel Konrad Baka Toine Siebelink Zu Qiang (Ericsson) Samuli Silvius	R7 Resourcing/Staffing/Complmp/ Jira WoW PoC Architecture Options
17 Jul 2020	Benjamin Cheung Toine Siebelink Tony Finnerty Munir Ahmad Joanne Liu Rudel Bruno Sakoto theodore johnson Pawel Slowikowski	M1 Topics / ACTION: Swami for NFR Table in Wiki PoC Architecture Issues List - Interface-style and - Data Representation
24 Jul 2020	Benjamin Cheung Tony Finnerty Ciaran Johnston theodore johnson Bruno Sakoto Pawel Slowikowski	R8 M0 (03 Aug 2020) request to move to 17 Aug 2020 R7 M1 (Passed 23 Jul 2020) Architecture S/C Presentation PoC, component description Decisions (done) for Interface style & Data representation, data Lake
31 Jul 2020	Benjamin Cheung theodore johnson Tony Finnerty Pawel Slowikowski Bruno Sakoto Fred Feisullin Zu Qiang (Ericsson) Jacqueline Beaulac	Non-Real time RIC and C&PS Pawel Slowikowski (ML TS data, filter data, svc topology) C&PS external API. accessing inventory/topology info (A&AI). PM yang or json. R7 M2 Architecture S/C presentation - component description PoC architecture issues & decisions.
07 Aug 2020	Benjamin Cheung Bruno Sakoto theodore johnson Toine Siebelink Hieu Nguyen Fred Feisullin Claudio David Gasparini Jacqueline Beaulac Pawel Slowikowski Rishi Chail Zu Qiang (Ericsson)	Jacqueline Beaulac C&PS Modeling Rishi intro

14 Aug 2020	Benjamin Cheung Bruno Sakoto Fred Feisullin Rishi Chail theodore johnson Toine Siebelink Ciaran Johnston Claudio David Gasparini Zu Qiang (Ericsson) Fred Feisullin Mart in Vezeau	5G Svc Modeling U/C Continuing C&PS Modeling PoC architecture issues & decisions R8 Presentation (Req S/C), CPS PoC Arch S /C
17 Aug 2020 Monday	Requirements S/C - (Alla Goldner's) C&PS R8 Honolulu 10 EST USA (2PM UTC)	Honolulu release - functional requirements proposed list
18 Aug 2020 Tuesday	Architecture SubCommittee Presentation for C&PS PoC	2020-08-18 ONAP Architecture Meeting
21 Aug 2020	Benjamin Cheung Bruno Sakoto Tony Finnerty theodore johnson Toine Siebelink Claudio David Gasparini Niamh Core Rishi Chail Kamel Idir Zu Qiang (Ericsson)	New Member Niamh Core ("Neeve") 5G Service Modeling & CPS Modeling Yang Parser
28 Aug 2020	Benjamin Cheung Claudio David Gasparini theodore johnson Tony Finnerty Niamh Core Rishi Chail Toine Siebelink Bruno Sakoto Zu Qiang (Ericsson) Junfeng Wang Kamel Idir	Issues decisions and assumptions Yang Parser PYang presentation (theodore johnson) Container Lists Leaf Leaflets
04 Sep 2020	Benjamin Cheung Bruno Sakoto Claudio David Gasparini Niamh Core Tony Finnerty Rishi Chail Pawel Slowikowski Fred Feisullin Hieu Nguyen	M4 Status for REQ-322 Transaction Behavior
11 Sep 2020	Benjamin Cheung Toine Siebelink Bruno Sakoto Swaminathan Seetharaman theodore johnson Niamh Core Rishi Chail Pawel Slowikowski Tony Finnerty Konrad Baka Andy Mayer Fred Feisullin	Registry Service Operation
18 Sep 2020	Benjamin Cheung Tony Finnerty Toine Siebelink Bruno Sakoto Claudio David Gasparini Niamh Core Pawel Slowikowski Rishi Chail theodore johnson Hieu Nguyen Andy Mayer Kam el Idir N.K. Shankar	Registry Service Operation Yang Parser (Agreed) PoC Status (Nordix WebSvc Code model) Plugfest ACTION C&PS E2E NS (RegSvc), PCI (RegSvc) C&PS A&AI (MD CPS) (lower pri) Project Proposal TSC DATE Oct DDF (R8) ACTION Portal Page Project Proposal Arch S/C
25 Sep 2020	Benjamin Cheung Bruno Sakoto Toine Siebelink Tony Finnerty Niamh Core Andy Mayer Yuriy Malakov	231017 https://zoom.us/j/836561560?pwd=TTZNcFhXTWYxMmZ4SlgzczVZZQXluUT09
28 Sep 2020	4PM UTC (12:00 Noon USA EDT) / 20 min 5 min context (Tony Finnerty), 5 min C&PS overview (Benjamin Cheung), 5 min PoC (Toine Siebelink), 5 min Q&A ACTION: LINK / Register in O-RAN Ericsson Plugfest-2 CPSPresentation.pptx	

30 Sep 2020	Preparation for TSC Slides Benjamin Cheung Tony Finnerty Melanie Sater Fred feisullin Jacqueline Beaulac	ConfigurationPersistencySvcR8TSC_202010Oc01v10.pptx ConfigurationPersistencySvcR8TSC_202010Oc01v10.pdf
28 Sep 2020	(ORAN Plugfest Event) Use Case Realization Call: Sep 2 2020	CPS ONAP PlugFest 28 Sep 2020 .mp4 https://wiki.onap.org/download/attachments/81399125/O-RAN_2nd_PoC-Plugfest_Genl-info.pdf?version=1&modificationDate=1597418009000&api=v2
01 Oct 2020	202010Oc01_zoom_0.mp4 202010Oc01_audio_only.m4a	Follow-up discussion / meeting after the TSC call Oct 1 202010Oc01TSCFollowup_zoom_0.mp4 202010Oc01_audio_only.m4a TSC Presentation ConfigurationPersistencySvcR8TSC_202010Oc01v11.pptx ConfigurationPersistencySvcR8TSC_202010Oc01v11.pdf
02 Oct 2020	Benjamin Cheung Claudio David Gasparini Tony Finnerty Toine Siebelink aditya puthuparambil Fred Feisullin user-7f92d Rishi Chail Bruno Sakoto Niamh Core Carlos Manzanares Andy Mayer Zu Qiang (Ericsson) Junfeng Wang Kamel Idir	Intros (Carlos / Architect Nokia, Aditya / Bell Ca & Bruno Policy team Est , Krystian Samsung U/Cs SDC OOM) PTL Vote (Sent) - Toine Siebelink will be the C&PS PTL Voting Best Practices Annual Community Elections - Process#PTLElections ACTION: Toine will investigate ONAP Project and Component Lifecycle vDDF  REQ-1 - ONAP Requirement Template TO DO
09 Oct 2020	Benjamin Cheung Toine Siebelink Tony Finnerty Claudio David Gasparini Joachim Blixt (Samsung) Rishi Chail Bruno Sakoto Zu Qiang (Ericsson) KINGSLY LAWRENCE Ciaran Johnston Fred Feisullin Phillipe Leger Kamel Idir Niamh Core Junfeng Wang	Intros: Phillipe Leger (Bell, State DB project), Joachim (SamSung) PTL Elections (current PTL executes vote, committers +2) R8 Page / 5G U/C Review Slides for vDDF Demo?
15 Oct 2020	Benjamin Cheung Toine Siebelink Aniello Paolo Malinconico Hitoshi Terao Junfeng Wang Li am Fallon Marek Szwakiewicz Minh Pham nicolas schlewitz Piotr Stanior Atsushi Makita Niamh Core Alessandro Gerardo D'Alessandro Borislav Glozman Bruno Sakoto Christophe Closset Ciaran Johnston Fei Zhang Cheng Huang Jacqueline Beaulac Martin Vezeau Md Irshad Sheikh Philippe Léger Prudence Au Rishi Chail Zelmann Penze Andy Mayer Harry Mooney Pamela Dragosh Aditya Puthuparambil Gervais-Martial Ngueko N.K. Shankar Phani Yellela Bengt Thuree	vDDF https://wiki.lfnetworking.org/display/LN/2020+October+Virtual+Technical+Event

16 Oct 2020	Benjamin Cheung Toine Siebelink Tony Finnerty Aditya Puthuparambil Bruno Sakoto Joachim Blixt (Samsung) Niamh Core Philippe Léger Claudio David Gasparini theodore johnson Rishi Chail Zu Qiang (Ericsson) Kamel Idir	(USE CASES) E2E NS (Registry Svc, Align, Boost), SON (RegSvc) (USE CASES) A&AI (MD CPS) (lower pri) Interface (Niamh Core) CCSDK-2870 DP: CPS REST API Documentation - PROPOSAL PTL Elections (current PTL executes vote, committers +2) Independent Component (TSC) - tool in place repo / TSC 2020-10-22 Repo Request - https://lists.onap.org/g/onap-tsc/message/5980 Modeling (Jacqueline Beaulac) Group.io Calendar: https://lists.onap.org/g/onap-meetings/calendar?calstart=
23 Oct 2020	Benjamin Cheung Toine Siebelink Carlos Manzanares Joachim Blixt (Samsung) Pawel Slowikowski Ruslan Kashapov Swaminathan Seetharaman Claudio David Gasparini krishna moorthy Bruno Sakoto Jacqueline Beaulac Philippe Léger theodore johnson Kamel Idir And y Mayer Aditya Puthuparambil Michela Bevilacqua N.K. Shankar Sandeep Shah Timo Perala Oskar Malm Rishi Chail Dilip Krishnaswamy Fred Feisullin	TSC ■ Toine Siebelink (recognized as PTL) ■ CPS (officially recognized as a stand-alone project) MODELING ■ Modeling summary Jacqueline Beaulac ■ Will Modeling have R8 S/W impact? ■ Agreed it is Category 1. ■ ONAP R8 Modeling High Level Requirements CPS Concepts ■ Discussion of CPS Concepts_202010Oc22v3.pptx ■ Follow on discussion at 19 Nov 2020 U/CR call Use Case Realization Meeting Register MoM OOF SON TEAM - Joint Discussion with OOF SON Team ■ Querying with XPath, Wild Cards ■ https://www.w3.org/TR/xpath-30/ ■ Schemas ■ Yang Models for SON OOF, ODL Path downloads Yang render to REST Conf API. DevMount (see APIs). ■ Get/Put/Delete/Post, Patch API. IETF RFCs. ■ R8 goals w/ OOF/SON & CPS

30 Oct 2020	Benjamin Cheung Martin Vezeau Pawel Slowikowski Fernando Oliveira Claudio David Gasparini Rishi Chail Ruslan Kashapov Junfeng Wang Niamh Core Swaminathan Seetharaman Fred Feisullin Aditya Puthuparambil Kamel Idir Rajiv Vishwkarma	R7 Marketing Release R8 CPS Page DCAE DATA EXPOSURE SERVICE (new R7 Microservice in DCAE) - Continued discussion on XPath & API DCAE / Data Exposure Service DES (new R7 Microservice) - Fetch data send REST query make use of templates, aggregation present to user. abstracts data layer for performance and data. DES & CPS - Maybe CPS could follow a similar approach to DCAE/DES. SQL templates. Possible S/W sharing? A CPS user (model/yang) driven. To do a query, the consuming mS composes an XPath (composite) query. To abstract the query, the mS could help. q.v. a query mS maps to XPath queries & presents. DCAE DES - Will be presented at 04 Nov 2020 DCAE Call. Developed by Chinamobile team as part of KPI monitoring functionality. DCAE DES - will be used for both OOF SON & E2E Network Slicing (U/C mtg Mondays) DCAE DES & PM - Templates for PMs. KPI monitoring. #1 aggregate & store-fetch data & SQL query > #2 calculate, KPI, policy > #3 present to user. PMmapper. RT Data > computation. Not yet done. Generic formula. Config policy loaded. PMmapper filtering vs normalizing. Raw PM Counter Data (3GPP & VS PM) KPIs. Network slicing team is working on this. DCAE DES w/ External DBs - Can plug in external DBs? Starts with simple MongoDB. SQL templates. Presto SQL Query engine. - Store & Reexecute previous queries.
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06 Nov 2020	Benjamin Cheung Aditya Puthuparambil Bruno Sakoto Claudio David Gasparini Dilip krishnaswamy Fernando Oliveira Fred Feisullin Joachim Blixt (Samsung) Junfeng Wang K amel Idir krishna moorthy Martin Vezeau Niamh Core Pawel Slowikowski Rishi Chail Ruslan Kashapov Swaminathan Seetharaman Tony Finnerty Toine Siebelink Zu Qiang (Ericsson)	Extending Meeting / Development Items ▪ Development oriented topics - Coding, Jira, Debugs, SW development ▪ Extending the meeting afterwards (13:00 UTC to 14:30 UTC) ▪ 1/2 extension, we can always end early ▪ Milestone checklists Guilin Milestone Status R8 Impact View / Component ▪ CPS Page rehomed. ▪ CPS in the "Approved projects" tree / Component Jira. ▪ Talk to David McBride - CPS should be on the IV/C. ▪ Own Project in JIRA. When creating a JIRA. OOF SON TEAM - Joint Discussion with OOF SON Team ▪ DCAE DES concept ▪ Added to CPS Issues decisions and assumptions, CPS & DCAE DES concept sharing CPS XPaths ▪ Querying with XPaths, Wild Cards. Result? REST API Json objects. Additional XML parsers needed? Is this the only way to Query structures?
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13 Nov 2020	Benjamin Cheung Bruno Sakoto Toine Siebelink Tony Finnerty Joachim Blixt (Samsung) Michela Bevilacqua Niamh Core Pawel Slowikowski Martin Skorupski Philippe Léger Rishi Chail Ruslan Kashapov Junfeng Wang Kamel Idir Andy Mayer Marcin Szalu Fred Feisullin	DEVELOPMENT ITEMS - Status update https://jira.onap.org/secure/RapidBoard.jspa?rapidView=228&view=planning.nodetail&quickFilter=719&issueLimit=100 - Java API - CCSDK-2871 DP: Long-term Java API(s) - CPS Yaml OpenAPI - https://geritt.onap.org/r/gitweb?p=cps.git;a=blob;f=cps-rest/docs/api/swagger/openapi.yml;h=9b2ac1ec5d98dffd3705d6a58b4dc6ad42deee8e;hb=refs/heads/master - Bugs - Ongoing code reviews (mainly to check none are held up) - AOB - AAF - look into need to be "registered" as a component MODELING DISCUSSION - API UML Modeling - Papyrus - Noted in ONAP R8 Modeling High Level Requirements - Combined model of REST & Java APIs to be exposed - Papyrus installation page: Using Papyrus for Modeling R8 Honolulu Release - Impacts - Honolulu Impact View per Component - Schedule - Release Planning: Honolulu - ExtAPI, UI, VID, VNFReqts, - OOM - where pods are deployed - SDN-R? ARCHITECTURE SUB-COMMITTEE - Scheduled for 01 Dec 2020 - Architecture S/C Presentations - Honolulu-R8 Functional Requirements Architecture Reviews
19 Nov 2020	Use Case Realization Call	Presenting CPS & API & CPS "Core concepts" Use Case Realization Meeting Register MoM

20 Nov 2020	Benjamin Cheung Toine Siebelink Tony Finnerty Ruslan Kashapov Sandeep Shah Bruno Sakoto Claudio David Gasparini Joachim Blixt (Samsung) krishna moorthy Niamh Core Pawel Slowikowski Swaminathan Seetharaman Fred Feisullin Junfeng Wang Martin Vezeau Andy Mayer Michela Bevilacqua	DEVELOPMENT TOPICS • Status update • Kanban Dashboard • Components / Repos (Dependencies, CI) SON Normalization • vendor proprietary vs standardized, specific attributes, SON algorithm • sequence flow diagram - (1) add descriptions to numbers, (2) missing steps in R8), (3) missing model loading to CPS, (4) would be nice to have a ladder flow-diagram • Needed: Examples of XPath Queries • Do a PoC of the Normalization. • Slides for SON normalization: SON_Normalization.pptx E2E NETWORKING SLICING - Joint Discussion with E2E Network Slicing Team • Discussion with E2E Network Slicing • Swagger API for configDB (CCSDK) off E2E NS page, Query & Update. • Java API XPath is a single string. • Config DB#APIDocumentation
27 Nov 2020	Benjamin Cheung Toine Siebelink Tony Finnerty Bruno Sakoto Aditya Puthuparambil s Manzanares Claudio David Gasparini Joachim Blixt (Samsung) Kamel Idir Martin Skorupski Niamh Core Pawel Slowikowski Ruslan Kashapov Junfeng Wang	DEVELOPMENT TOPICS • Status update • Components (Core, REST, DataRegistry, SPI Ref, StateSvc, xNF Proxy) • Java API (Niamh Core) • Jira CPS 100! • CCSDK-2871 DP: Long-term Java API (s) • CCSDK-2872 DP: Agree and document proposed long-term Persistence SPI(s) • Documents • Insights LF Statistics ARCHITECTURE S/C PRESENTATION ▪ Components ▪ C4 diagram: ARC Configuration & Persistency Service (CnPS) Component Description - Honolulu-R8
01 Dec 2020	CPS presentation at Architecture Sub-committee	Architecture Sub-committee review schedule: Honolulu-R8 Functional Requirements Architecture Reviews CPS Arch Presentation (Draft): Configuration PersistenceSvcArchRvw_202012Dc01v14a.pptx Updated pack: CPS Architecture Committee Presentation Dec 2020.pptx

04 Dec 2020	Benjamin Cheung Joachim Blixt (Samsung) Niamh Core Tony Finnerty Toine Siebelink Kamel Idir Bruno Sakoto Ahila P Swaminathan Seetharaman krishna moorthy Rajiv Vishwkarma Ruslan Kashapov Aditya Puthuparambil Junfeng Wang	Software Project Status SON OOF Discussion ▪ Network Models, Overlapping models /functions. ▪ Prioritizing models ▪ Round trip SON update from xNF how represented in CPS. Latency between & visibility in CPS. (XPath Pending) ▪ Needed: Examples of XPath Queries (pending on models to be used). APIs to be focused on. ARCHITECTURE S/C PRESENTATION • Architecture Reference Diagram • Architecture Presentation (what's left to present on 08 Dec 2020) Use Case Realization Call / 5G ▪ Modeling ▪ Updating models, Yang; backwards compatibility ▪ CPS - vendor supplied models in Design time rep used to desc. data avail in runtime. Release R7/R8 ▪ R7:  REQ-322 - Configuration & Persistency Service in R7 DONE - and (PoC):  REQ-384 - Define and prove the concept of model driven in the context of CPS DONE ▪ Modeling Jira  MODELING-382 - Model Driven Application Data - Modeling Work CLOSED - has been moved to R8 ▪ What should block what? "Depends on relationship" ▪ R8 Release info & Status. Linked  REQ-427 - Configuration Persistence Service in R8 DONE - with  REQ-429 - Use Case for ONAP-based SON for 5G networks DONE E2E NETWORKING SLICING - Joint Discussion with E2E Network Slicing Team • Discussion with E2E Network Slicing • Monday E2E, ORAN OSC sync E2E (Thur)
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11 Dec 2020	Benjamin Cheung Tony Finnerty Toine Siebelink Bruno Sakoto Aditya Puthuparambil Joachim Blixt (Samsung) krishna moorthy Niamh Core Swaminathan Seetharaman Ahila P Andy Mayer Ruslan Kashapov Kamel Idir Junfeng Wang	Software Project Status - Issues & Decisions - Issues decisions and assumptions - Logging https://docs.onap.org/projects/onap-logging-analytics/en/latest/index.html#master-index - S/W status update - Logging will go to STDOUT and continued investigation to follow ONAP guidelines. Investigate VM vs Container logging aspects. https://kubernetes.io/docs/concepts/cluster-administration/logging/ https://kubernetes.io/blog/2020/09/04/kubernetes-1-19-introducing-structured-logs/ CPS MAPPER SERVICE - Mapper Service sits on top of CPS REST Service. - Presented from krishna moorthy - VES 7.2 - VES 7.2 - missing identity of source of the event in API. to associate the cell w/ xNF for instance. Storing native data vs entire network view. - SLIDES: cps_mapper_service.pptx
18 Dec 2020	Benjamin Cheung Tony Finnerty Martin Vezeau Michela Bevilacqua Rishi Chail Niamh Core Swaminathan Seetharaman krishna moorthy Henry Yu aditya puthuparambil Ruslan Kashapov Junfeng Wang	Software Status - Documentation - Issues & Decisions - Issues decisions and assumptions CPS Mapper Service - Presented from krishna moorthy - Discussion of Mapper Service - CPS engage Slice Teams (Mon slicing weekly) Release R8 - Release Planning: Honolulu
25 Dec 2020	NO MEETING	

08 Jan 2021	Toine Siebelink	Introduction Martin Vezeau Software Status • KanBan board: https://jira.onap.org/secure/RapidBoard.jspa?rapidView=228 • Recently completed & ongoing: https://github.com/errit.onap.org/r/q/project:cps • Issues & Decisions - Issues decisions and assumptions Release R8 • CPS Release tasks: 0 issues E2E Network Slicing • Presentation from Tony Finnerty • CPS engage Slice Teams (Mon slicing weekly) ? Release R8 (TBD) Modeling Discussion Jacqueline Beaulac
TBD	(TBD)	what was done (Ted J.), Deep Dive on Proposal; API I/F.
		(TBD) Joint Discussion with ONAP-ORAN Harmonization Team
		(TBD) Joint Discussion with A1 Policy Extensions