

Configuration Persistence Service Meeting Notes & Recordings 2021

MEETING INFO

When: Fridays (weekly) 12:00-13:00 UTC

Where: <https://zoom.us/j/836561560?pwd=TTZNcFhXTWYxMmZ4SlgzczZZQXluUT09>

Organizer: Toine Siebelink

Date Range

01 Jan 2021 through 27 Aug 2021 For minutes after this date please continue to : [Configuration Persistence Service Jakarta Meeting Notes & Recordings](#)

R8 DISCUSSION

Topic	Discussion
R6 / R7	Read the Docs
ReadtheDocs	☐ 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	Requests for R7 Requirements are up.
Content / requirements	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)  • STEP 5: CCSDK (Controller) LISTENS to DMaaP - Sandeep Shah (R6 Done) (R7)  665BK-2392 - Enhancements for OOF SON use case in Honolulu release  • 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	Virtual F2F mentioned the CPS project.
OOF/SON/PCI (Cell info)	Those other use cases have dependency to Use cases. We need to attend U/C weekly meetings; sync
E2E Network Slicing (Slicing info)	Guilin (R7) - Use Cases (and Requirements in Use Cases) Guilin release - functional requirements proposed list
Harmonization (Sind-Def VES)	OOF SON interaction REQ-345 - 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. modify CCSDK solution to extend interfaces (OOF/SON/PCI Team updates). R7 Solution of C&PS (evolution "ConfigDB" = C&PS) Hard code information
- **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**

R7 GuLin Developm ent	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 OOF 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
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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

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 DONE
PoC Story Jiras	CCSDK CPS-43 - Configuration & Persistency Service PoC Preparations CLOSED Modeling Jira: MODELING-382 - Model Driven Application Data - Modeling Work CLOSED
Time Series management	- 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.
TSDB	
Modeling	Model Concept for PoC & presentation Support for CPS Model Driven PoC R8+ xNF models. Access to CPS DB info.

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

Recurring Agenda Items

Software Status

- KanBan board: <https://jira.onap.org/secure/RapidBoard.jspa?rapidView=228>
- Ongoing commits: [gerrit cps cps/cps-temporal cps/cps-tbdt project:cps/ncmp-dmi-plugin](#)
- Completed this week: 0 issues
- Code Quality
 - https://sonarcloud.io/dashboard?id=onap_cps
 - https://sonarcloud.io/dashboard?id=onap_cps-cps-temporal
 - https://sonarcloud.io/dashboard?id=onap_cps-ncmp-dmi-plugin
 - https://sonarcloud.io/dashboard?id=onap_cps-cps-tbdt

RECORDING

Date	Zoom Recording	Audio Only
08 Jan 2021	CPS-210108.mp4	CPS-210108.m4a
15 Jan 2021	CPS-210115.mp4	CPS-210115.m4a
22 Jan 2021	CPS-210122.mp4	CPS-210122.m4a
29 Jan 2021	CPS-210129.mp4	CPS-210129.m4a
05 Feb 2021	CPS-210205.mp4	CPS-210205.m4a
12 Feb 2021	CPS-210212.mp4	CPS-210212.m4a
19 Feb 2021	CPS-210219.mp4	CPS-210219.m4a
26 Feb 2021	CPS-210226.mp4	CPS-210226.m4a
05 Mar 2021	CPS-210305.mp4	CPS-210305.m4a
12 Mar 2021	CPS-210312.mp4	CPS-210312.m4a
19 Mar 2021	CPS-210319.mp4	CPS-210319.m4a
26 Mar 2021	CPS-210326.mp4	CPS-210326.m4a
09 Apr 2021	CPS-210409.mp4	CPS-210409.m4a
16 Apr 2021	CPS-210416.mp4	CPS-210416.m4a
23 Apr 2021	CPS-210423.mp4	CPS-210423.m4a
30 Apr 2021	CPS-210430.mp4	CPS-210430.m4a
07 May 2021	CPS-210507.mp4	CPS-210507.m4a
14 May 2021	CPS-210514.mp4	CPS-210514.m4a
21 May 2021	CPS-210514.mp4	CPS-210514.m4a
28 May 2021	CPS-210528.mp4	CPS-210528.m4a
04 Jun 2021	CPS-210604.mp4	CPS-210604.m4a
11 Jun 2021	CPS-210611.mp4	CPS-21061.m4a
18 Jun 2021	CPS-210618.mp4	CPS-210618.m4a
02 Jul 2021	CPS-210702.mp4	CPS-210702.m4a
09 Jul 2021	CPS-210709.mp4	CPS-210709.m4a
16 Jul 2021	N/A	N/A

30 Jul 2021	CPS-210730.mp4	CPS-210730.m4a
06 Aug 2021	CPS-210806.mp4	CPS-210806.m4a
13 Aug 2021	CPS-210813.mp4	CPS-210813.m4a
20 Aug 2021	CPS-210820.mp4	CPS-210820.m4a
27 Aug 2021	CPS-210827.mp4	CPS-210827.m4a

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ATTENDEES WEEKLY ROSTER

Date	Attendees	Topic
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
08 Jan 2021	Toine Siebelink Martin Vezeau Ruslan Kashapov Benjamin Cheung Bruno Sakoto Aditya Puthuparambil Claudio David Gasparini Joachim Blitt (Samsung) krishna moorthy Niamh Core Swaminathan Seetharaman Ahila P @Fred Feisullin Tony Finnerty Sandeep Shah	Introduction Martin Vezeau Software Status - KanBan board: https://jira.onap.org/secure/RapidBoard.jspa?rapidView=228 - Recently completed & ongoing: https://gerrit.onap.org/r/q/project:cps - Issues & Decisions - Issues decisions and assumptions Release R8 - CPS Release tasks: 0 issues Propose to be closed for new features/requirement. Already committed to: - E2E Network Slicing. Sync up with PTL - Son (Stretch) - Temporal DB (no REQ yet?) E2E Network Slicing - Presentation from Tony Finnerty on E2E NW integration with CPS (Draw.io, PPT) - E2E Needs 2 sets of data - Slicing specific model. Fred Feisullin has a diagram describing that data stored in CPS) - Needs some CM data but not depending on notifications (available through xNF Proxy) - This mean the 'current' model provided by Sandeep Shah needs to be split? - Data will be pre-loaded using 'config' files or something similar by xNF Proxy - Resourcing - xNF Proxy not resourced (need to explore, ask on onap discuss, swami will consider too) - DES-Like Data model transformers will be resourced by E2E Team - CPS engage Slice Teams (Mon slicing weekly) ? Release R8

15 Jan 2021

Toine Siebelink
Tony Finnerty B
enjamin Cheung
Bruno Sakoto Cl
audio David
Gasparini Aditya
Puthuparambil A
hila P Fernando
Oliveira Joachim
Blixt (Samsung)
Kamel Idir krish
na moorthy Mart
in Vezeau Niam
h Core Pawel
Slowikowski Ris
hi Chail Ruslan
Kashapov Sand
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inathan
Seetharaman
Fred Feisullin Mi
chela
Bevilacqua N.K.
Shankar Junfen
g Wang

Housekeeping

- RocketChat replaced by Slack , ONAP/CPS channel: <https://onaproject.slack.com/archives/C01K3KSBQGH>

Software Status

- KanBan board: <https://jira.onap.org/secure/RapidBoard.jspa?rapidView=228>
- Recently completed & ongoing: <https://gerrit.onap.org/r/q/project:cps>
- Issues & Decisions - Issues decisions and assumptions

Software Quality:

- Sonar Report
- Silver Badge (Niamh) Need some further investigation
Bruno Sakoto can find out maybe from Policy Framework project

M2 Milestones

type	key	summary	assignee	reporter	priority	status	resolution	created	updated	due
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 Jira project doesn't exist or you don't have permission to view it.

[View these issues in Jira](#)

Swami, planning next

Support for Vertical Industry

- Benjamin Cheung recommends to view Use Case Realization Call: Jan 14, 2020
 - industry using a 'private radio network' which ONAP could manage
 - 'tenant' is the owner of the 'private' network
 - CPS could contact Cheng Huang about this use case
 - need to decide where A&AI stops and CPS begins...

E2E Network Slicing

- Discuss current API ie. what data and queries are required
 - CPS interface
 - xNfProxy interface (for data owned by xNfProxy)
 - API Mapping DES-Like interface (query templates)
 - Where to host code? temporary in CPS Repo
 - proposal: [CPS APIs](#) and [CPS-TBDMT Service](#)
 - query/template will be link to a schema-set(id)
 - network call information about multiple xNF instances, this needs to be addressed
For Honolulu it is preferred to keep 1 singel instance?!
 - Even if 1 anchor (with agreed id) we have add that to interfaces
- Will continue in Monday E2E Network Slicing Meeting: <https://lists.onap.org/g/onap-meetings/viewevent?repeatid=31927&eventid=970358&calstart=2021-01-18>

22 Jan 2021	Toine Siebelink Tony Finnerty Ni amh Core Benja min Cheung Ha nif Kukkalli Marc in Szalu Pawel Slowikowski Ris hi Chail Ruslan Kashapov Claud io David Gasparini Bruno Sakoto Fred Feisullin Aditya Puthuparambil K amel Idir Joachi m Blixt (Samsung) San deep Shah Swa minathan Seetharaman A hila P	Introduction New team Member: Hanif Kukkalli DB Schema - latest DB schema published on the Developer Landing Page Software Status - KanBan board: https://jira.onap.org/secure/RapidBoard.jspa?rapidView=228 - Recently completed & ongoing: https://gerrit.onap.org/r/q/project:cps - Issues & Decisions - Issues decisions and assumptions M2 Milestones - CPS R8 Release Planning - Deployment in ONAP and related requirements such as documentation were agreed to be a major risk/unknown impact for this new team. Task investigating what is required need to be prioritized - Benjamin Cheung kindly agreed to present detail about ONAP documentation/process in next week meeting - Toine Siebelink will works with swam to identify E2E Network Slicing related user stories such as those required for the new models mentioned below. - Bruno Sakoto will work with Toine to define a list of user stories for the Temporal DB aspects - One all user stories have been identified a team meeting is required to agree what is feasible in the Honolulu time frame Architecture Update - Short Presentation by Tony Finnerty CPS-MVP-Component-Responsibility.pptx - CPS consist of 3 main components - DB Generic Yang data store - CPS (core) CRUD access control, ownership - xNF Proxy. Cache for CM data - Additional we will have - Model-Transform (DES Like modified view) - Suggested name for API Mapp/DES like transformer: TemplateBasedDataModelTransformer - TemplateBasedDataModelTransformer will be separate service from CPS and XNF Proxy. for reason of scalability and segregation of responsibilities E2E Network Slicing Use Case - Sandeep Shah has presented an overview 'new model' that will represent the 'external; data' not captured in the RAN Network model. Thing like Near RTRIC mapping.: 4 models are proposed, all of them contain at least E2E NW Slicing data and some also contain SON data. - Approx. 15-20 queries are being proposed. However is is expected these can all be executed using the same core CPS and xNF Proxy functionality: - qualified cpsPath query (get). assuming each model is stored/associated with its own Anchor. Or the models are tied together using an overarching parent model (yang module). To be discussed! - Swaminathan Seetharaman and Toine Siebelink agreed to track each model as a user story under  CPS-168 - xNFProxy Minimum Viable Product for E2E Network Slicing CLOSED - The queries can be subtasks of a single query user story assuming all queries need the same basic CPS Cor and xNF Proxy functionality
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29 Jan 2021	Toine Siebelink Tony Finnerty Ni amh Core Benja min Cheung Bruno Sakoto Claudio David Gasparini Hanif Kukkalil Joachim Blixt (Samsung) Marc in SzaluAditya Puthuparambil Martin Vezeau Ruslan Kashapov Kam el Idr Junfeng Wang Ahila P Krishna moorthy	CPS DOCUMENTATION - Presentation by Benjamin Cheung on ONAP documentation (for new project) - Slides: AddingRequirementsGerrit_202006Jn11.pdf Key take-aways - source for onap documentation in own project (docs) handled by own Jiras https://docs.onap.org/en/guilln/guides/onap-developer/architecture/index.html goot template - can use links back to wiki especially while projects is immature - it should be done earlier but in practice we can do docs after m3 milestone Software Status - KanBan board: https://jira.onap.org/secure/RapidBoard.jspa?rapidView=228 - Recently completed & ongoing: https://gerrit.onap.org/r/q/project:cps - Code Quality: https://sonarcloud.io/dashboard?id=onap_cps - Issues & Decisions - Issues decisions and assumptions - Claudio David Gasparini is preparing an assembly module that allows for flexible deployment options - The goal for MVP is to deploy alternative 2 here (CPS core and NXF-REST proxy in one service) with OOM. With a possible inclusion of Temporal DB RETS interface when available (alternative 3) Misc - The schedule for the LFN Developer & Testing Forum is now live here. - Tony Finnerty & Toine Siebelink will be presenting CPS-NF-Proxy MVP on Thursday - Toine Siebelink will be presenting on using Spock and Groovy for unit test M3 :code freeze' Thursday 25 Feb 2021 !!! - Release Planning: Honolulu - CPS R8 Release Planning - Do we need to de-scope Agreed to flag that Update functionality might not be achieved in Honolulu time-frame. E2E Network Slicing Use Case - Agreed name API Mapp/DES like transformer: TemplateBasedDataModelTransformer - Progress on models and query details...  GPS-196 - Custom Model E2E Network Slicing SON PIC 1/4: Near-RT RIC <-> C/DU mapping CLOSED E2E Slicing team will provide data sample and query information when ready  GPS-199 - Custom Model E2E Network Slicing - Coverage Area-Tracking Area & TA-Cell mapping CLOSED E2E Slicing team will provide query and 'update' information when ready  GPS-200 - Custom Model E2E Network Slicing - RAN Inventory CLOSED E2E Slicing team will provide query and 'update' information when ready Breakdown of user stories discussion: - New function: retrieve DataNode WITHOUT children, do we need this? Do we need separate user stories for: Store & retrieve (keyed) Lists Store & retrieve leaves (standard attributes) Store & retrieve leafLists - Alternatively work on E2E Slicing models and handle 'bugs' for what is not working - Team agreed to handle functionality through bugs as issues with E2E Models and Data samples arise - Tests will need to be added for specific functionality like stores leaves, leafLists etc - Update functionality (no epic or user stories yet!) - E2E network slicing only required CSP updates (no forwarding of updates to NF required as this is done elsewhere already) - What types of updates do we need (what is achievable in Honolulu) - Ahila suggested to use Yang Patch payload, see https://tools.ietf.org/html/rfc8072#page-5 - Will try to get more details by next week.
04 Feb 2021	Demo video from LFN Developer and Testing Forum (Feb 2020)	https://wiki.lfnetworking.org/display/LN/2021-02-04+-+ONAP%3A+ONAP+CPS+MVP+for+Honolulu
05 Feb 2021	Tony Finnerty Toine Siebelink Ni amh Core Claudio David Gasparini Kamel Idr Aditya Puthuparambil Benjamin Cheung Hanif Kukkalil Joachim Blixt (Samsung) Marc in Szalu Rishi Chail Ruslan Kashapov Bruno SakotoMartin Vezeau Junfeng Wang Sandeep Shah Ahila P S waminathan Seetharaman Krishna moorthy	Software Status - KanBan board: https://jira.onap.org/secure/RapidBoard.jspa?rapidView=228 NOTE. Team to use subtask (or bugs) Jira references in commit messages. Parent user stories can be tracked using Topic! - Recently completed & ongoing: https://gerrit.onap.org/r/q/project:cps - Code Quality: https://sonarcloud.io/dashboard?id=onap_cps - Issues & Decisions - Issues decisions and assumptions Action Toine Siebelink : move open issue not required for Honolulu to separate table. Done - Issue #22 update by xpath will be discussed by developer team meeting on 08 Feb 2021 - Issue #23 OOM integration options have been discussed in agreed by team (see notes in issue table) - Issue #24 E2E network slicing preferred update interface options ahs bene recorded, to be agreed next week E2E Network Slicing Use Case - Progress on models and query details...  GPS-196 - Custom Model E2E Network Slicing SON PIC 1/4: Near-RT RIC <-> C/DU mapping CLOSED Data provided today, Aditya Puthuparambil wil follow up  GPS-199 - Custom Model E2E Network Slicing - Coverage Area-Tracking Area & TA-Cell mapping CLOSED Get scenarios can be fulfilled using current get by xpath end point in CPS. Aditya Puthuparambilwil prepare demo for next weeks meeting  GPS-200 - Custom Model E2E Network Slicing - RAN Inventory CLOSED E2E Slicing team will provide query and 'update' information when ready

12 Feb 2021

Toine Siebelink
Tony Finnerty Ni
amh Core Claud
io David
Gasparini Aditya
Puthuparambil B
enjamin Cheung
Hanif Kulkali M
artin Vezeau Ris
hi Chail Ruslan
Kashapov Bruno
Sakoto Kamel
Idir Joachim
Blixt (Samsung)
Sandeep Shah
Ahila P krishna
moorthy Swami
nathan
Seetharaman

Software Status

- KanBan board: <https://jira.onap.org/secure/RapidBoard.jspa?rapidView=228>
Temporal Service in new repo but still CPS project
CPS-175 Blocked by OOM issues with Postgress
Additional grooming meeting scheduled for dev. team 15 Feb 2021 9:00 UTC
- Recently completed & ongoing: <https://gerrit.onap.org/t/q/project:cps>
- Code Quality: https://sonarcloud.io/dashboard?id=onap_cps

M3 : 'code freeze' Thursday 25 Feb 2021

- M3 tasks:
0 issues

✓ **REQ-612** - Review and update scope status **DONE**

Backlog grooming meeting on Monday and Tuesdays E2E Slicing follow-up will determine if we make intended scope

for Honolulu

✓ **REQ-613** - Complete preliminary documentation **DONE**

[Benjamin Cheung](#) can help us with other project examples

The "knowledge master" of documentation stuff that Ben went to for help was Hagop: BOZAWGLANIAN, HAGOP hb755d@att.com

✓ **REQ-614** - Document integration test tasks in Jira **DONE**

[Claudio David Gasparini](#) explained new process is ongoing. Probably need script to extend E2E use case like in

demo shown today. The PNF Plug and Play Integration Test Cases Page:

<https://wiki.onap.org/display/DW/SG+--+PNF+PnP+--+Integration+Test+Cases>

E2E Network Slicing Use Case

Demo (CPS core functionality using E2E Slicing data samples)

TBDMT is under development by [krishna moorthy](#) code needs to be integrated in CPS Repo (temporary) a a module.

[Aditya Puthuparambil](#) has demonstrated E2E scenarios and queries related to

📌 **GPS-199** - Custom Model E2E Network Slicing - Coverage Area-Tracking Area & TA-Cell mapping **CLOSED**

see [CPS User Story Demos](#)

- Possible query and update requirements (interface methods) [CPS-235: Overview of \(early\) CPS Query](#)
- Progress on models and **query** and **update** requirements

◦ 📌 **GPS-196** - Custom Model E2E Network Slicing SON PIC 1/4: Near-RT RIC <-> C/DU mapping **CLOSED**

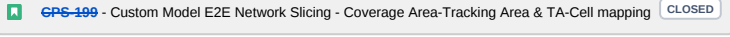
◦ 📌 **GPS-199** - Custom Model E2E Network Slicing - Coverage Area-Tracking Area & TA-Cell mapping **CLOSED**

◦ 📌 **GPS-200** - Custom Model E2E Network Slicing - RAN Inventory **CLOSED**

[Toine Siebelink](#) has shown overview of possible query and update scenarios. CPS Team needs input from E2E NW for the scenarios required by them with data examples and possibly SQL statements etc, [Swaminathan Seetharaman](#) will propose follow up meeting for Tuesday 16 Feb 2021 examples and data can hopefully be provided earlier

A.O.B.

[Benjamin Cheung](#) requested CPS Team to join Use Case Realization meeting on 22 Feb 2021 1400 UTC as the Intent Based Network Framework & Modeling (IBN) use case team would be interested in using CPS.....

19 Feb 2021	Toine Siebelink Tony Finnerty R uslan Kashapov Bruno Sakoto A ditya Puthuparambil B enjamin Cheung krishna moorthy Niamh Core Ris hi Chail Kamel Idir Claudio David Gasparini Hanif Kukkalil S waminathan Seetharaman S andeep Shah N. K.Shankar	Software Status Ruslan Kashapov is finalizing study on CIST integration tests. Goal is E2E test for CPS applications. Team is free to use any testing method but might be restricted by reporting options. Infrastructure setup might suffice for H-timeframe. Toine Siebelink will contact Chaker Al-Hakimre. template for architecture is finalizing study on CIST integration tests. Goal is E2E test for CPS applications. Team is free to use any testing method but might be restricted by reporting options. Infrastructure setup might suffice for H-timeframe. will contact re. template for architecture documentation. Benjamin Cheungmade a clever suggestion to draft documentation in a Wiki and once reviewed and finalized convert to RST files. This would speed up the review process! M3 :code freeze' Thursday 25 Feb 2021 0 issues OOM Integration update Aditya Puthuparambil and/or Claudio David Gasparini Build issues seem resolved. OOM can now finalize Helm Charts etc. There seem to be superfluous image and issues with the version number that Bruno Sakoto and Claudio David Gasparini will fix. E2E Network Slicing Use Case - CPS APIs API methods #2 and #21 will be prioritized for H release - Both methods use E2E Slicing specific model through CPS-Core. This means NF-Proxy interface not required (for E2E Slicing) #2 requires new query: CPS-235: Overview of (early) CPS Query query #3 This will be handled as a 'bug' as code freeze date is to close #2 also requires a 'with children' option on the query, also to be handled as a 'bug' #21 is a simple 'get' by xpath with children which is already supported by CPS Core. Latest Model & Data sample need to be confirmed, Toine Siebelink suspect latest data.txt sample provided in  is not inline with model. CPS Code has a later data sample. Niamh Corewill update the Jira with the correct sample. - TBDMP Integration as submodule to be discussed with Claudio David Gasparini TBDMP Sub repo in progress, split in separate commits: structure, code, tests. Need to think about structure and split the PoC in required modules. E2E Slicing team will drive required tasks, track in Jira et with support from CPS Team. krishna moorthy will handle deployment? For now as uService as subschart in CPS but TBDMT should remain independent of CPS! Claudio David Gasparini can support with OOM integration - Explore Yang-Patch, E2E. Sandeep Shahshowed a basic example of a Yang Patch with an 'edit' operation: Yang Patch Example <pre>{ "ietf-yang-patch:yang-patch": { "patch-id": "Patch 1", "comment": "patch for phy-cell-id-in-use for a cell", "edit": [{ "edit-id": "edit", "operation": "merge", "target": "\${prop.oofpcipoc.patch.pci.target}, "value": { "phy-cell-id-in-use": \${tmp.phy-cell-id-in-use} }]] } }</pre> Patches are transactional, if one fails, all fail (and rollback of already completed steps) Patches are NOT used for adding elements to a Yang List AOB: Benjamin Cheung invited CPS Team to join Use Case Realization meeting on 22 Feb 2021 1400 UTC to discuss CPS possibilities for collaboration with Intent Based Networking Project
26 Feb 2021	Tony Finnerty T oine Siebelink N iamh Core Benj amin Cheung Br uno Sakoto Clau dio David Gasparini Aditya Singh krishna moorthy Rishi Chail Ruslan Kashapov Vishnu Ram Hanif Kukkalil K amel Idir Ahila P Sandeep Shah Swaminathan Mi chela Bevilacqua	Software Status 1 bugs on OOM integration, fixes are submitted but there is still a follow up issue which Aditya Puthuparambilis working on with support from Sylvain Desbureaux Read-the-doc is set-up. see https://docs.onap.org/projects/onap-cps/en/latest/index.html content to be completed after M3. NF Proxy Early Design, presentation by Tony FinnertyCPS-NCMP-Design.pptx Tony explained the reasoning for new terms 'Network CM Proxy' NCMP 'CMHandle' which will replace the term 'Anchor' in the context of CM Proxy recommend to read about NMDA https://tools.ietf.org/html/rfc8342 M3 :code freeze' Thursday 01 Mar 2021 0 issues - PLEASE CLOSE ANY TASK THAT IS DONE! Change 'fix version' tag to Istanbul for anything that wont (need to) make Honolulu E2E Network Slicing Use Case - CPS APIs API methods #2 and #21 will be prioritized for H release - TBDMT code in sub-repo: https://gerrit.onap.org/r/q/project:cps%252Fcps-tbdtm - Build issues. Claudio David Gaspariniexplained we need to raise a ticket on LNF and create a ci-management change. - OOM integration, we are probably too late for this but krishna moorthywill start process anyway with support from Bruno Sakotoand Claudio David Gasparini OOM integration of TBDMT needs to remain <u>independent</u> of OOM integration of CPS! As a fall back option TBDMT can be manually added to an ONAP deployment for demo or a local deployment an be used. - Need to support at least 2 CPS endpoints. 'Get and 'Query'. The query endpoint is '<server>/cps/api/v1/dataspace/dataspace/anchors/anchor/nodes/query' Demo available in this video. Krishna wil handle this requirement as a 'bug' after M3 AOB:Benjamin CheungBenjamin Cheungand Tony Finnerty met with Intend Based Network Team. Tony does not expect and 'special' work for team but probably support to help them how to get the most out of CPS. Overview https://wiki.onap.org/display/DW/Use+Case+Realization+Call%3A+Feb+8%2C+2021 CPS & IBN https://wiki.onap.org/display/DW/Use+Case+Realization+Call%3A+Feb+22%2C+2021

05 Mar 2021	Toine Siebelink Tony Finnerty Niamh Core Claudio David Gasparini Benjamin Cheung Bruno Sakoto Krishna moorthy Marc Szalu Rishi Chail Ruslan Kashapov Filip Gschwandtner Aditya Singh Martin Vezeau @Fred Feisullin Joachim Blixt (Samsung) Swaminathan Seetharaman Ahila P	Software Status Aditya still investigating Template issue re stateful Pod for DB, Support from Sylvain, Krystof needed. Security issues not blocking Release Master Branch version for Istanbul will be 1.1.0-SNAPSHOT CPS-274 Bruno will test solution Documentation Tony suggested to refer to https://wiki.onap.org/pages/viewpage.action?pageId=84655884 Silver Badge: Achieved, record on https://wiki.onap.org/display/DW/Honolulu+Release+Platform+Maturity Niamh Core demoed query user stories with this video. and this video Error handling needs to be improved, created  CPS-276 - Improve error reporting for invalid cpsPath on Queries CLOSED Istanbul Requirements blocked URL Swaminathan Seetharaman will create new REQ's for E2E Slicing and SON PIC (scope to be still discussed internally) - Future of TBDMT, not clear is nice as part of CPS but will require additional resourcing as much work still needed like integration, conform to CPS-Core quality standards etc. Swaminathan Seetharaman and krishna moorthy will prepare slides to follow up this discussion next week with a view to take it to Arch. Committee. E2E Network Slicing Use Case CPS APIs How to continue? Proposed to split according to 'operation' 2 teams of 2. Toine Siebelink will create Jira's to track this work. If needed CPS team can meet E2E team middle of next week for further clarification. see  CPS-277 - Spike: Analyse E2E API GET methods CLOSED and  CPS-278 - Spike: Analyse Put Methods for E2E Slicing CLOSED
12 Mar 2021	Tony Finnerty Toine Siebelink Niamh Core Bruno Sakoto Aditya Puthuparambil Filip Gschwandtner Martin Vezeau Rahul Tyagi Rishi Chail Ruslan Kashapov Swaminathan Seetharaman Claudio David Gasparini Krishna moorthy Andy Mayer Hanif Kukkalli @Vishnu Ram Kamel Idir Ahila P	Software Status OOM blocked, RC0 postponed by 1 week CPS team just waiting on OOM to merge (gating jobs are passing) CPS-290 more scenarios of 500 error to be discussed Presentation on E2E slicing Check Andy MAYER (ATT) Ruhai Tyagi (Ericsson) E2E Network Slicing Use Case - Presentation on TBDMT by Swaminathan Seetharaman and krishna moorthy 'Home' for TBDMT for review with ArchCom Template need to be aware of Model/Version Versioning could be part of ID Template should be applicable to range of versions Preferred by Team: TBDMT stay in CPS. Main concern is Resourcing. Swami will add slide with options and Pros & Cons and review slide again next week - Owner of slicing 'config' data has to be the 'use-case' (not the TBDMT)  CPS-277 - Spike: Analyse E2E API GET methods CLOSED Hanif Kukkalli has started working in this spike  CPS-278 - Spike: Analyse Put Methods for E2E Slicing CLOSED Request for Feedback: Team WoW Contribution and Development#CPSTeamWoW Team to comment on Wiki if required, WoW to be confirmed next week Discussion: Bug Handling, dropping back to H? - Which bugs to drop back - Process for dropping back Toine Siebelink will document a proposed WoW for bugs on confluence with help from team In general all bugs should be fixed on main branch and dropped back to previous release. Consider API changes, user story Acceptance Criteria etc. If there is no API/behavior impact and it didn't break acceptance criteria then it could be an 'enhancement'. Claudio David Gasparini will prepare for discussion on backward (in)compatible updates next week AOB - Agreed to change meeting duration back to 1h starting next week
19 Mar 2021 Please note DST has started in US, This will affect attendees in zones with different DST rules	Toine Siebelink Tony Finnerty Filip Gschwandtner Rahul Tyagi Claudio David Gasparini Hanif Kukkalli Benjamin Cheung Ruslan Kashapov Renu Kumari Bruno Sakoto Kamel Idir Swaminathan Seetharaman	New to CPS : Rahul Tyagi Renu Kumari Software Status - Documentation live: https://docs.onap.org/projects/onap-cps/en/latest/index.html  CPS-264 - CPS Release Process - Unique timestamp is missing when tagging docker images from maven-docker-stage-master job CLOSED need further discussion, test in H? is timestamp part removed when needed? E2E Network Slicing Use Case - Finalize presentation on TBDMT by Swaminathan Seetharaman : cps_tbdmt_20210312_v1.0.pptx - Swaminathan Seetharaman will ask to get on agenda for Arch. Comm. meeting on 23 Mar 2021 - Confirmed, see 2021-Mar-23 ONAP Architecture Subcommittee Meeting AOB - discuss CPS Release Process#StepstoDeliverReleasePatches - Separate Release commit/patch ie. not part of bug fix itself. Typically only path-number (last digit) should be increased. - Release notes should be updated too - Release patch can include several bugs when needed - Minimal code for bug fix on master branch for ease of drop back (but test included) - Toine Siebelink will update above guidelines

26 Mar 2021	Niamh Core Filip Gschwandtner Tony Finnerty Oskar Malm Rahul Tyagi Claudio David Gasparini Aditya Puthuparambil Hanif Kukkalli Ahila P Krishna moorthy Bhagya lakshmi R Bruno Sakoto Kamel Idir Ruslan Kashapov Renu Kumari N.K. Shankar Benjam in Cheung	Software Status - Agree on Contribution and Development#CPSTeamWay-of-Working - Agree on CPS Release Process#Steps to Deliver Release Patches - NCMP announcement (Oskar Malm) CPS-277 Spike Analyse E2E API GET methods - Discussion on TBDMT - will present on April 19th  AOB - Meet next week Fri April 2?! Ericsson holiday
02 Apr 2021		Cancelled due to holiday
09 Apr 2021	Toine Siebelink Tony Finnerty Niamh Core Aditya Puthuparambil @Oskar Malm Filip Gschwandtner Rahul Tyagi Claudio David Gasparini Hanif Kukkalli Bruno Sakoto Martin Vezeau Manpreet Kaur Ahila P Krishna moorthy Renu Kumari Ruslan Kashapov Andy Mayer Benjamin Cheung Please note DST has started in Europe	Software Status - Official waiver from TSC for ☒ CPS-281 - Expose external endpoints with https CLOSED so it can be postponed to Istanbul (no need to dropback to H) - Security Hotspot, needs to be flagged as False Positive. Amy Zwarico will follow up on this @Oskar Malm presentation on requirement REQ-717 - Network CM Proxy & Temporal DB DONE ONAP Rel I - NCMP - CPS meeting.pptx - Only impacts CPS (no other ONAP components) so now classified as a 'Specification' - SDNC (integration) Using RESTCONF ODL Interface Test Only impacts Claudio David Gasparini suggested to use Java-API client? Would be significant arch. change! - Take over responsibility from SDNC, breaking µNF concept, scaling concerns etc. Maybe consider/discuss this again later e.g in J-release - Preferred option for Model ingestion: direct from xNF (based on change event from A&AI) - E2E Slicing, API call 1 split into 2 steps as indicated on this page: https://wiki.onap.org/display/DW/CPS+APIs Bruno Sakoto presentation: Temporal DB Update, see CPS-191: Core and Temporal Integration Design
16 Apr 2021	Toine Siebelink Tony Finnerty Hanif Kukkalli Oskar Malm Aditya Puthuparambil Niamh Core Rishi Chail Claudio David Gasparini Ruslan Kashapov Renu Kumari Ahila P Krishna moorthy Bruno Sakoto Martin Vezeau Kamel Idir	Software Status ☒ CPS-309 - Extends ends-with cps path query to allow for non-key attributes CLOSED Only 'and' support required, xpath syntax like ' //categories[@code="02" and @name="kids"]' - team agreed Renu Kumar proposal for using help 'profiles' as per https://gerrit.onap.org/r/c/oom/+/120431 - Next week we need to include other Repo's in update too! - Performance Test Findings by Ruslan Kashapov see CPS Testing - NCMP Requirement breakdown, see CPS-333 Network Configuration Management (NCMP) scope for I release considerations - E2E Network Slicing update - Queries identified, in progress - Update requirement identified, see CPS-278 Spike Analyse E2E API PUT methods spike required for LIST operations. Current list of related stories: ☒ CPS-325 - Get Data under anchor using single / 'root' CLOSED ☒ CPS-337 - Add a child data node under an existing parent. CLOSED ☒ CPS-340 - Patch and update the root data node CLOSED ☒ CPS-338 - Spike - Create, Update & Delete Operation for Yang List Data Nodes CLOSED - Question on SON Use Cases: Model information is information, Niamh Core will send an email. Also please confirm SON use case is still considered for I timeframe.

23 Apr 2021	Toine Siebelink Rishi Chail Niamh Core Oskar Malm Tony Finnerty Rahul Tyagi Bruno Sakoto Ruslan Kashapov Shiva Subedi Renu Kumari N.K. Shankaranarayanan Ahila P Swaminathan Seetharaman Vamsshi Krishna Namlikonda	Software Status CPS Team need SON Model, awaiting response from Sandeep  CPS-320 - Remove configuration duplication in OOM CLOSED Need alternative solution but Renu Kumari will comment and propose way forward Regarding OOM Renu will also create a general OOM-updates ticket based on a pattern used in 'Policies'. Any OOM updates can be added as task to that ticket. Traditionally this was handled at end of any release but we are awaiting ng an OOM process improvement to have an earlier staging release to make these changes. Renu will communicate to team and OOM about this process  CPS-330 - Analyse SON Use case PUT,PATCH & DELETE endpoints CLOSED Awaiting Son models. Sandeep Shahor Swaminathan Seetharaman will provide soon A&AI has no inventory of simulated xNFs yet SNDR workaround RAN Simulator has list, possible as shortcut (N.K. Shankar) - CPS Path Documentation: https://docs.onap.org/projects/onap-cps/en/latest/index.html - NCMP Requirement breakdown, see CPS-333 Network Configuration Management (NCMP) scope for I release considerations - Discussion with E2E Network Slicing regarding 'hardcoded ran-network-model': Swaminathan Seetharaman (or his team) will investigate the feasibility of model-retrieval using RESTConf and NetConf from the Honeycomb(?) simulator used for their use-cases. Following the produce investigated and documented by Rahul Tyagi  INF-1904 - Spike - Investigate if yang model can be fetched from netconf-sim CLOSED - A&AI does currently not include/cover the simulated nodes used by E2E NW Slicing. NCMP should NOT try to solve this using SDNC/R or similar. If needed a 'shortcut' using a hardcoded list(file) with the simulator data until this functionality is added to A&AI. - A dedicated ONAP-Honeycomb-DMI plugin could be considered if needed e.g. if models can not be retrieved over RESTConf. - At the same time it might be required that NCMP in the I timeframe support both simulated nodes and nodes available in A&AI. Prioritization and feasibility (depending on resourcing too) of these options need to be discussed - At boot time of DMI Plugin it will need to inform NCMP (DMI-Registry) of all CMHandles its manages
30 Apr 2021	Toine Siebelink Tony Finnerty Niamh Core Shiva Subedi Oskar Malm Rishi Chail Aditya Puthuparambil Claudio David Gasparini Renu Kumari N.K. Shankaranarayanan Ahila P Bruno Sakoto Manpreet Kaur Zu Qiang (Ericsson)	Software Status - Spikes by Bruno and Renu to be reviewed by remainder of team (follow up meeting early next week) - CPS-36. Rishi remarked there is no docker-file yet for TempDB. Wil create separate task to do that first - Discussion on the fact TempDB is juts one module. It was greed that for simplicity it will be kept like that until the need arises to split it. Bruno is also introducing an Architecture Quality Tool to ensure the singel module still has a god architecture that can always be dived into modules in the future - TBDMT. Question arose around need for (read-the-docs) documentation etc. Toine Siebelink will the requirement for TBDMT and make sure documentation is part of that. - New tasks suggested - Update read-the-docs for CPS with high level description of its components - Update & reorg wiki with good overview of current architecture of CPS and its components - NCMP road map, short presentation by Oskar Malm ONAP Rel I - NCMP Roadmap.pptx Note. Pass-thru will include write operations. In Istanbul release only full re-sync will be available to update CPS Core Cache after write operations... - E2E Network Slicing Update - Simulator findings, not available yet but Honeycomb is intended to be fully NetConf compatible. It might mean impacts on simulator are required...
07 May 2021	Toine Siebelink Ruslan Kashapov Renu Kumari N.K. Shankaranarayanan Sandeep Shah Oskar Malm Tony Finnerty Rishi Chail Niamh Core Shiva Subedi Hanif Kukkalli Swaminathan Seetharaman Bruno Sakoto Kamel Idir Manpreet Kaur Ahila P Krishna moorthy	- Short discussion re. SDNC & SDNR Tony Finnerty & Swaminathan Seetharaman SDN Controller is Prime interface for CM to Network. Owns the interfaces to network. NCMP owns the cached data. NCMP that requests models & data from controller as needed. Software Status - Bug  CPS-377 - Init ran model validation is failing, error details are not provided CLOSED is ready to me merged! Renu Kumari: ONPA want us to use authorize docker hub access for Postgres images. Create  CPS-379 - Use LF docker credential for pulling timescale image from docker hub when running testcontainers CLOSED to update CPS-temporal, will create a similar user story for CPS-Core - Short demo of 'Ancestor Axis' extension by Niamh Core - Istanbul Epics & User Stories: CPS-333 Network Configuration Management (NCMP) scope for I release considerations Will move API Spike to Epic that need to implement them
14 May 2021	Toine Siebelink Niamh Core Tony Finnerty Michael Kerrigan Shiva Subedi Aditya Puthuparambil Rahul Tamkar Claudio David Gasparini Bruno Sakoto Ruslan Kashapov	Introduction Michael Kerrigan Software Status - Add task for local ONAP setup Investigation:  CPS-408 - Investigate minimal local setup for CPS and new ONAP dependencies CLOSED (done) - Unblock review Ruslan: https://gerit.onap.org/t/cps/+121153 (done) - SonarQube Rules update process wil be discussed in next week PTL meeting by Toine Siebelink - Include all 3 SonarQube views for future agenda (done) - Presentation on NCM Rest Interface: CPS-391Spike: Define and Agree NCMP REST Interface - Create story for update CPS-Core REST with output description and samples  CPS-409 - Update Open API Yaml documentation with output description and examples CLOSED (done) - Model operations are NOT part of the interface discussed. But a (Separate) interface for this is planned and minimal support in Istanbul timeframe is required - NCMP wil use different datastores (dataspaces) for the same and/or slightly different models for the same xNFs. This might requires soem attention/future optimization - Announcement: https://wiki.lfnetworking.org/display/LN/2021+LFN+Developer+Event+Topics+June
21 May 2021	Toine Siebelink Joseph Keenan Michael Kerrigan Oskar Malm Aditya Puthuparambil Tony Finnerty Niamh Core Rishi Chail Kieran McCarthy Hanif Kukkalli Claudio David Gasparini Shiva Subedi Dylan Byrne N.K. Shankaranarayanan Renu Kumari Bruno Sakoto Krishna moorthy Ahila P	Introductions Dylan Byrne and Joseph Keenan Software Status - Possible on SonarQube coverage reporting in CPS-Temporal . Bruno Sakoto will create bug to address this - CPS is part of Trial for new way working for SonarQube: - ONAP Way profile created (copy of Sonar Way) which gives us control of when SonarQube updates come in - PTL (Toine) has now capability to flag false positives and mark Security hotspots as 'safe'. Discussion regarding exact scope Istanbul - E2E Network Slicing detailed requirements - Will use CPS-Core only. - Upload model using rest endpoint as needed - CRUD Operations against data in CPS-Core only for now - TBDMT will have some minor impacts when switching to NCMP interface at a later stage (ie. specify dataspace). In any case it seems required that TBDMT can interface with both CPS(core) and NCMP - Ownership of data is important but does not require impacts in Istanbul - Update on Simulator investigation - Honeycomb RAN Simulator should have capacity to retrieve model over NetConf/RESTConf interfaces using ODL - Should have no impacts on other components - Will check with Rahul Tyagi how to continue - This activity is part of  REQ-712 - Network CM Proxy & Temporal DB DONE and will run parallel with other Istanbul requirements - SON PCI - Similar approach as E2E Network slicing ie. use CPS-Core in Istanbul timeframe

28 May 2021	Toine Siebelink Dylan Byrne Michael Kerrigan Aditya Puthuparambil Oskar Malm Rahul Tyagi Tony Finnerty Rishi Chail Niamh Core Kieran McCarthy Ahila Pkrishna Bruno moorthy Renu Sakoto Renu Kumari Junfeng Wang Shiva Subedi Ruslan Kashapov	Software Status - Re. https://gerrit.onap.org/r/c/cps/-/121560/2/cps-ri/src/test/java/org/onap/cps/TestApplication.java we agreed to park the issue under discussion and possibly deal with it in a separate task once we have good dependency diagrams to discuss this in the group again. - Update on CPS-391 Spike: Define and Agree NCMP REST Interface - some open issues left re. datastore names and (fallback) behavior - REST URI format agreed 😊 Ahila P Some clarification required re. DMI-Plugin, node, model and data discovery Step 1 Node Discovery - If E2E simulation node not in A&AI: DMI Plugin has side-door REST endpoint to add (initial) inventory Step 2 Model Discovery After node is Added, NCMP will trigger Model Discovery when needed 2a NCMP will request list of module (name)s from Node 2b NCMP will request yang-source for any module it hasn't stored already (for other nodes) Junfeng Wang has some concerns about pre-conditions for node discovery. Ahila will add these details later DMI-Plugin interface, abstraction that allows flexibility to have other ways of discovering initial inventory and inventory changes. Intention is that ONAP will only have one DMI-Plugin. Using a temporary 'side-door' to add any cm-handle not available through A&AI Step 3 Data Sync Not worked out yet Similar process and component involvement as Model Sync <i>Note. SON API to be discussed in 5G SON OOF use case meeting later today See : https://zoom.us/j/94816649573?pwd=dmVPMndVRXM3T3ZMVEFLOUdWVHNQQT09</i>
04 Jun 2021	Toine Siebelink Tony Finnerty Oskar Malm Rishi Chail Michael Kerrigan Dylan Byrne Shiva Subedi Rahul Tyagi Claudio David Gasparini Joseph Keenan N.K. Shankaranarayanan Kieran McCarthy Joseph Keenan Renu Kumari Ruslan Kashapov Bruno Sakoto Aditya Puthuparambil Renu Kumari	Software Status - Bug  CPS-450 - Datanode query using full path to node causes NPE  is fixed - Bug  CPS-451 - cps-ran-schema-model@2021-01-28.yang missing root container  Ruslan Kashapov has attached the correct model. Is compatible with previous data already in system 'Bug'  CPS-452 - Support Query by leaf-list contains a value match  is not a bug but a task or user story that needs to be executed as part of E2E slicing use case support - Latest findings on config=true/false support using SDN-C/ODL by Rishi Chail: ODL supports 'content' parameter and translates it to the equivalent NetConf operation(s). However current tests show the same output even though some elements are flagged as config 'false'. Claudio David Gasparini suggests using a different simulator to identify where the problem is. is and will help Rishi with this. Oskar Malm noted that most current nodes do not support NMDA datastores (yet) So intention for Istanbul is to only support non-NMDA devices. Non-NMDA device will also use one model for config=false and config=true data. - Release Planning: CPS-333 Network Configuration Management (NCMP) scope for I release considerations Team made decisions on open issue as record on that page now. - A.O.B. 2021 LFN Developer & Testing Forum June
11 Jun 2021	Toine Siebelink Kieran McCarthy Oskar Malm Michael Kerrigan Niamh Core Joseph Keenan Tony Finnerty Rishi Chail Rahul Tyagi Dylan Byrne Renu Kumari Shiva Subedi Bruno Sakoto Ahila P	Software Status - DMI-Plugin modules setup completed today - SDN-C study can be closed, spin off task:  CPS-395 - Spike: SDNC Interface for CRUD and Patch Operations  - SQ: CPS-Core and Temporal on 0 issues, well done team! Committer promotions - Congratulations to Aditya Puthuparambil, Niamh Core and Renu Kumari - Discuss ARC Configuration Persistence Service (CPS) Component Description - Istanbul-R9 with Tony Finnerty Proposal approved with some minor comments CPS R9 Release Planning Bruno Sakoto and Toine Siebelink will work together to complete this with Temporal DB specific information and combined goals where applicable
18 Jun 2021	Toine Siebelink Niamh Core Michael Kerrigan Rahul Tyagi Shiva Subedi Oskar Malm Joseph Keenan Aditya Puthuparambil N.K. Shankaranarayanan Ahila P Hanif Kukkalli	Software Status Aditya Puthuparambil asked about considering 'Kafka Stream' agreed not needed Michael Kerrigan Build problems, need to check what test is failing exactly Renu Kumari Need agreement on Kafka default authentication options and population of related env. variables. Agreed to 'follow' CPS-Core but further discussion needed with Bruno and Aditya. - Docker compose setup for Kafka, Agreed to handle that as separate task for CIST testing. Renu Kumari will create ticket for that ARC Configuration Persistence Service (CPS) Component Description - Istanbul-R9 Approved M2 Approved Niamh Core and Toine Siebelink will present CPS-390 Spike: Define and Agree DMI Plugin REST Interface - Some minor comments were addressed during the meeting and Toine Siebelink and Niamh Core will follow up with more updates - A.O.B. No meeting next week
25 Jun 2021	No Meeting	
02 Jul 2021	Toine Siebelink Tony Finnerty Shiva Subedi Rahul Tyagi Dylan Byrne Joseph Keenan Aditya Puthuparambil Luke Gleeson Niamh Core	- Introduce Luke Gleeson Software Status - Bugs in progress by Renu Kumari and Bruno Sakoto but both on annual leave today  CPS-393 - Spike: DMAAP Event subscription and Filtering of A&AI  Shiva Subedi unblocked (bugs resolved by DMAAP team)  CPS-423 - Spike - Investigate DMAAP integration to produce CPS events from CPS core to CPS Temporal  Aditya Puthuparambil can be closed decision is to use Kafka directly.  CPS-401 - Update Open API YAML with data types and example for output  Joseph Keenan is still blocked but help has been requested from internal ericsson resources Niamh Core presented CPS-390 Spike: Define and Agree DMI Plugin REST Interface#DMIInventory.Model&DataSyncAPI - some minor example updates still in progress but otherwise completed Shiva Subedi presented CPS-393 Spike: DMAAP Event subscription and Filtering of A&AI - pnf-id will be used as cm-handle (alternative names support might be added later) - filtering options will need to be explored further. Shiva/Toine will contact William Reehill for further details on properties in event - will add more info about update and delete events

09 Jul 2021	Toine Siebelink Dylan Byrne Shi va Subedi aditya puthuparambil J oseph Keenan L uke Gleeson To ny Hansen Rah ul TyagiKieran McCarthy Brun o Sakoto Renu Kumari	- Software Status ☒ CPS-489 - Clean up licenses to follow onap format CLOSED Bell will need to confirm their license format. Luke Gleeson should not update those ☒ CPS-490 - PACKAGES UPGRADES IN DIRECT DEPENDENCIES FOR ISTANBUL CLOSED still blocked Toine Siebelink will sent mail to Steve Winslow to suggest discussing it at PTL meeting ☒ CPS-433 - Spike - Investigate DMAap integration to produce CPS events from CPS core to CPS Temporal CLOSED aditya puthuparambil will share report and demo recording with Tony Finnerty ☒ CPS-401 - Update Open API YAML with data types and example for output DELIVERED still blocked. Toine Siebelink will call meeting to go through details and decide actions - NCMP Progress 'big picture' CPS-333 Network Configuration Management (NCMP) scope for I release considerations Joseph Keenan : Demo fields and depth parameter finding as per CPS-455 Spike: support options for 'fields' and 'depth' parameters - Team experimented with field and depth options, some interesting findings which Joseph Keenan will document on above Wiki Page
16 Jul 2021	Dylan Byrne Shi va SubediJosep h Keenan Luke Gleeson Rahul Tyagi Bruno Sakoto Renu Kumari Niamh Core Tony Finnerty Luke Gleeson	- Software Status - Unable to record this meeting
23 Jul 2021		Canceled
30 Jul 2021	Toine Siebelink Luke Gleeson S hiva Subedi Nia mh Core Tony Finnerty Joseph Keenan aditya puthuparambil D ylan Byrne Rahu l Tyagi Renu Kumari Bruno Sakoto Ahila P	- Software Status Dylan Byrne team agreed change of 'additionalProperties' to 'cmHandleProperties' as the former is an Open API reserved word. Niamh Core wil update Wiki pages affected. ☒ CPS-205 - Upgrade swagger-codegen-maven-plugin CLOSED is re-assigned to Joseph Keenan - Problems reported by Ahila P ☒ CPS-524 - Issue with CPSData API to add an item to an existing list node CLOSED was explained and has detailed steps and data to reproduce. Will be assigned to CPS Team member shortly Toine Siebelink has sent Ahila P documentation on how to use text() function. There was also a mismatch in property-name. Ahila will try again. - Add list element and updating properties wil have to be done in 2 separate calls! Toine Siebelink has sent Ahila details about CPS-Core Patch URL to update leaves only. - Holiday Cover Bruno Sakoto has been set up for LastPass but need to test this. 13 Aug 2021 Bruno will be absent too. So team has to plan for this.. Shiva Subedi started presenting CPS-506: List all known modules and revision team accepted reasoning to only use module-name and revision to uniquely identify a module. - Namespace is not needed! ☒ CPS-525 - Investigate Option to delete an incorrect module OPEN has been created to deal with incorrect modules at some point in the future.
06 Aug 2021	Dylan Byrne adit ya puthuparambil R ahul Tyagi Shiva Subedi Joseph Keenan Luke Gleeson Renu Kumari	- Software Status Toine Siebelink was on annual leave so meeting was run by Dylan Byrne - Bug in progress by Dylan Byrne ☒ CPS-524 - Issue with CPSData API to add an item to an existing list node CLOSED . Also relates to an issue regarding additional properties not being saved in ☒ CPS-442 - Implement DMI Registration (NCMP-Side) CLOSED - Discussed workshop held by Ericsson team in Ireland, along with sprint retrospective. - Brought up current issues with code reviews, and how they can be conducted in a more efficient manner going forward, by breaking down commits into smaller chunks, and not recommitting non blocking issues where necessary approvals have already been made. Renu Kumari brought up the question; how will these further commits be documented? And this was also discussed by the team Dylan Byrne will create a code review best practices wiki which the team can contribute to with their opinions on what should count/not count towards blocking issues.
13 Aug 2021	Dylan Byrne Shi va Subedi Niam h Core Ahila P J oseph Keenan L uke Gleeson To ny Finnerty	- Software Status - Discuss ☒ CPS-524 - Issue with CPSData API to add an item to an existing list node CLOSED with Ahila P - Discuss ☒ CPS-487 - Retrieve data from cmHandle using ncmp-datastores:passthrough-operational (NCMP Impl.) CLOSED Which method is used for this?
20 Aug 2021	Dylan Byrne Shi va Subedi Niam h Core Joseph Keenan Luke Gleeson Tony Finnerty Renu Kumari Aditya Puthuparambil B runo Sakoto Ra hul Tyagi @Arpit Singh	Software Status

27 Aug 2021	Toine Siebelink aditya puthuparambil S hiva Subedi Nia mh Core Tony Finnerty Dylan Byrne Luke Gleeson Rahul Tyagi Joseph Keenan Renu Kumari Arpit Joshiyura Sand eep Shah Bruno Sakoto	• Software Status ◦ Many SQ violation in CPS-Core and NCMP mainly about <i>var-rule</i>. Please use SQ locally to prevent these. Toine Siebelink will also discuss the value of the rule in PTL an see if it can be disabled ◦ TBDMT Quality is also regressing and improvements proposed for Istanbul to align with CPS standards haven't been addressed yet. • Discuss issues Sandeep Shah ◦  CPS-591 - CPS-Core Leaf stored as integer is being returned from DB as float CLOSED Integers are represented as floats ('.0' added in output) when read from DB. CPS Team will investigate now the issue is understood better ◦  CPS-583 - (TBDMT) No Response from /execute/ran-coverage-area/get-parentNode-list CLOSED Issue seems in TBDMT, awaiting response from krishna moorthy ◦ Logging. Lack of logging Toine Siebelink has created task to document capture of CPS logs:  CPS-604 - Document Logging Guidelines CLOSED It might lead to an improvement to increase logging on positive scenarios. • Code Freeze & RC(0) ◦ Team will need to focus on bugs, doc, CSIT & Demos. CSIT test and Demos might possibly be combined. Includes but not limited to:  CPS-523 - Implement CSIT Tests for Temporal CLOSED  CPS-595 - SPIKE: Define the new CSIT test cases and the set up required CLOSED  CPS-447 - Finalize CPS Temporal RTD Documentation CLOSED  CPS-604 - Document Logging Guidelines CLOSED  CPS-568 - Update release notes for Istanbul Release CLOSED • Release Process & Bugs. Bruno Sakoto explained the process ◦ See relevant child page on Configuration Persistence Service Developer's Landing Page ◦ Istanbul will start with version 2.0.0 because of complete renewed NCMP interface ◦ Pom files need to be updated with the correct version ◦ Team can decide when to deliver a few bugs together, step version and release new images. • Opening to ideas for Jakarta ◦ Ownership & Access Control • Housekeeping ◦ Replace this page with a new 'Jakarta' version after Code Freeze is agreed
08 Oct 2021		• Software Status



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