

Use Case Realization Call: October 2, 2019

Date

02 Oct 2019

Attendees

- Benjamin Cheung
- Sandeep Shah
- Andy Mayer
- Zu Qiang (Ericsson)
- Melanie Sate
- Vijay Venkatesh Kumar
- Chaker Al-Hakim
- Ajay Mahimkar
- Albino Pinho
- Oskar Malm
- Timo Perala
- Gerard Hynes
- Tina Tsou
- Vimal Begwani
- Atul Purohit
- Fari Behi
- Tracy Van Brakle
- Dongho Kim
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- Xin Miao
- Joanne Liu Rudel
- Marge Hillis

DISCUSSION ITEMS LOG

Ct gry	Item	Who	Notes
Pltfm	PLATFORM TOPICS: Controller to NF Association	Benjamin Cheung	R5/R6 Topic See Slides Nov 6, 2018. Development of Controller to NF assignment association S/W. CDS, VF-C, APP-C, SDN-R, SDN-C; will the CCSDK "merging" of controllers happen in R6? USE CASE REALIZATION MEETING (Notes 2018-11-6) Ctrl-NF
Pltfm	PLATFORM TOPICS: Data Persistency, RunTime DB	N.K. Shankara narayanan Joanne Liu Rudel Benjamin Cheung	STATUS: Work for RunTime DB completed, not merged in R4 Dan Timoney moved to R5, one Jira for RunTime DB . One issue about merging. ONAP code added can take a test ONAP deployment to have the ConfigDB work. USE CASE REALIZATION MEETING (Notes 2019-01-30) U/C Cross-Interaction, Persistency
Pltfm	PLATFORM TOPICS: Controller LCM API Evolution	Oskar Malm	https://wiki.onap.org/download/attachments/50202249/2019-04-09%20ONAP_LCM_API_Evolution_EI_Alto.pptx?api=v2 Goals (Architecture Evolution) • Target is common LCM API in CCSDK usable by different controller personas to simplify for both clients and controller implementations • Support PNFs for applicable LCM operations in a consistent way • Enable use of CDS blueprint processor to customize behavior of LCM operations in the 'self-service' category ◦ In ONAP R4, CDS can be used for pre/post-instantiation configuration. Generic and model-driven design should allow CDS usage to be extended for additional operations and use cases. • Evolution steps that preserve backwards compatibility for clients Present at the Arch S/C Apr 9 (Tue) second presentation.

Use Cases	USE CASE/5G: RAN (ORAN-3GPP) Standards harmonization with ONAP	Marge Hillis Vimal Begwani Fred Feisullin	- Orchestration at the Edge. - A1/O1/E2 communications. Edge to ENBs, Telemetry. - E2 will not have this info. O1 is I/F for PM counts. Not a management I/F. - WG3 (ORAN) is defining this. - ONAP w/ O1. Changes w/ O1 interface. - How to satisfy A1/O1 and in what time-frame. - U/C ORAN - ONAP harmonization. 3GPP ORAN ONAP. - Starting a new U/C in 5G. Marge, Vimal, Fred Feisullin - Edge inventory & topology. Transport BH consideration w/ real-time near-RT aspects - Akraino. MEC. Edge automation (Ramki). Use Case Wiki: MOBILITY STANDARDS HARMONIZATION WITH ONAP
Use Cases	USE CASE/5G: Licensing Management	Timo Perala Samuli Kuusela	New U/C added to the 5G Use Cases for Licensing Management Use case Wiki: LICENSING MANAGEMENT
Use Cases	USE CASE/5G: OOF / SON	N.K. Shankara narayanan	PoC U/C will happen in WinLab. To meet time lines do those parts in Windriver focusing on DCAE, Policy and OOF. Jira SDN-C (Dan Timoney) pushed El Alto (the Maintenance Release).
Use Cases	USE CASES: BBS U/C Evolution	David Perez Caparros Tim Carey Chaker Al-Hakim	BBS Evolution - Slide set linked in R6 proposed U/C. List of proposals & functional requirements. - Change Service - want to use ONAP platform. - Full Closed Loop for Fault Management - CLAMP. - Service Update API (SO) - will be developed https://wiki.onap.org/download/attachments/60887504/BBS_R5_v1.pptx?version=1&modificationDate=1554180715000&api=v2
Use Cases	USE CASES/5G: PM Dictionary/FM MD GUI	Marge Hillis	FM META DATA & PM DICTIONARY in R5
Use Cases	USE CASES/5G: PNF S/W Upgrade	Zu Qiang (Ericsson) yaoguang wang	PNF software upgrade in R6 Frankfurt
Use Cases	USE CASES/5G: Preonboarding /Onboarding	Benjamin Cheung Zu Qiang (Ericsson) Michela Bevilacqua	PNF PREONBOARDING / ONBOARDING in R5
Use Cases	USE CASES: IoT Service Creation	Atul Purohit	IoT Create Services on 5G 5G Use Cases in R6 Frankfurt June 19, 2019
Use Cases	USE CASES: Modeling gNB/5G RAN	Thinh Nguyenphu Benjamin Cheung Melanie Sater Tracy Van Brakle Martin Skorupski	Align, harmonize, reconcile various information models to ONAP model: Expand & verify model and harmonize with the ONAP internal information & data model: ETSI SOL001 ... 007 with ONAP internal Model PNFD modeling (Model S/C) 5G Model (3GPP, RAN) ORAN (WGs, RAN) Open ROADM (reconfig optical add/drop multiplexer, Optical) ONF (Optical) ISOMII (Optical) OTCC (Optical transport config & control) - Use Cases that need transport models need some model consistency. - Try a Use Case with extended ONAP model & real equipment.

Us e Ca ses	5G NRM (Network Resource Model) Configuration	yaoguang wang	Presented at the 2019 June LFN DDF, titled as '5G Provisioning management service to NRM' Presentation scheduled for Aug 8, 2019
Arch	Architecture S/C PNF POB/OB Flow	Benjamin Cheung	Arch S/C Information Flows: Draft ONAP Information Flows New Information flow for Preonboarding/Onboarding xNF packages/resources. ARCHCOM: InfoFlow - Onboard Resource into SDC Flow
Pltfm	A&AI	James Forsyth	A&AI updates
TSC	TSC: PoC Definition	Benjamin Cheung Alla Goldner	POC definition
TSC	TSC/USE CASES: Test Automation Progress	Benjamin Cheung Alla Goldner	Use Case Test Automation Action Items: Use case subcommittee to reach the Dublin use case owner to provide the following information. what's the current percentage of testing automation regarding your use case and functional requirements; what will be the plan to be 100% and constraints (resources availability etc.)
	R6 Frankfurt / M0		Use Case Tracking Template Need the U/C teams to fill out the Dev. Impacts. More Generalized Use Case Template (discussed w/ Model team): Use Case Tracking Template and Use Case Template
	VID: Service Models Browser Orchestration	James Forsyth user-063b3	VID: Service Models browser - display orchestration type (macro / a`la carte) use-case. This use-case requires us to extend the AAI data-model, with an additional field, related to Service Model. This field will be used later on to indicate in VID the Service Model orchestration type. A&AI Epic 2594  AAI-2594 - AAI: Store orchestration-type parameter as part of model-ver:object CLOSED

DCAE USE CASE IMPACTS FOR R6

Frankfurt Release Requirements

USE CASE	IMPACTS
PNF / Preonboarding Onboarding	No Impact. VNF-SDK.
PNF / Plug and Play	Wiki Page: PNF PLUG and PLAY in R6 Frankfurt Epic #4: Secure PnP (see next row in this table) 1. CMPv2 for operator certificate enrollment for VES Collector to correctly handle pnfRegistration event. Epic #5: Refactor Tests for DCAE-SDK DMaaP-Client  DCAE2-1773 - Refactor tests for DCAE-SDK/DMaaP-Client CLOSED SUMMARY: DCAE Commits

CMPv2 Development	CMPv2 being developed in REQ-140 which is the common work in AAF There are then 3 other release requirements covering Use Cases that will use it: (1) Netconf U/C to enhancement w/ Certificate management; (2) enhance Bulk PM, (3) Enhancing PnP & VES Collector Also DCAE platform CMPv2 cert can be requested correctly and delivered to the micro-services. Was discussed last week with Pawel (Nokia).  REQ-140 - Create Client, Plugin using Client and mechanisms for using CMPv2 as a CA. DONE SUMMARY: Commit by DCAE
PNF / Software Upgrade	No Impact
PNF / Configuration with NetConf	will use CMPv2 (see the CMPv2 Development row) No additional DCAE impact.
5G / 5G Service Modeling	No Impact. Modeling impact. SUMMARY: No Impact
5G / Bulk PM	Wiki Page: 5G Bulk PM in Frankfurt/R6 Epic #1 PM control - - DCAE impacts to addition of new PM Subscription Handler micro-service - Any needed updates to PM Mapper mS to enable dynamic mapping of measurements that are part of active subscriptions (stretch goal) Epic #2 Secure 5G Bulk PM - CMPv2 for operator certificate enrollment for secure 5G Bulk PM. OPEN QUESTIONS: Is there further discussion for flow/paths for the Use Case itself? update from AAI triggering updates to SO, SH. change to have new mS and trigger policy update to reconfigure the mS follow policy path flow. Talk, but need follow-ups. AAI I/F vs direct I/F adding new OTI component for R6. Still need to close on some open points. (Spreadsheet/Use Case Team): Indicates impact SUMMARY: Will need some further discussion, need some updated flows and better understanding on the flows. Discussion with Oskar & Michela.
5G / PM Dictionary	Wiki Page: FM META DATA & PM DICTIONARY in R6 Frankfurt  DCAE GEN2-1767 - Update PM Dictionary schema to specify one measurement per YAML document CLOSED DCAE GEN2-1767 Epic  DCAE GEN2-1768 - Update VES Event Registration Spec for PM Dictionary Schema enhancement CLOSED DCAE GEN2-1768 Story Epic: Update PM Dictionary Schema to have one YAML document per measurement. All measurement YAML documents will be in the same PM Dictionary YAML file. Story: VES Event Registration Spec updates to section 3.3 for PM Dictionary schema change. No DCAE Impact. Marge Agrees. New Artifact & definition. SUMMARY: Needs more discussion with Marge. May need to be update, Marge will sync Vijay & Damian.
5G / 5G FM Meta Data	No Impact

5G / OOF SON (PCI)	Wiki Page: OOF (SON) in R5 El Alto, OOF (SON) in R6 Frankfurt Epic#1 - OOF/SON Enhancements Functionality enhancement to SON Handler MS Will also USE the CM Notify (being introduced in VES update) (Spreadsheet/Use Case Team): Indicates impact SUMMARY: Needs Clarification
5G / E2E Network Slicing	Wiki Page: NETWORK SLICING PoC in R6 Frankfurt (Obsolete) No Impact (none listed in Wiki) SUMMARY: (No impact?)
5G / RAN ORAN 3GPP Standards Harmonization	Wiki Page: MOBILITY STANDARDS HARMONIZATION WITH ONAP Might have to delay. Enhancements expected from DCAE (1) CM NOTIFICATION: Listen to CM notification (config change notification). (2) 3GPP FAULT EVENT: how to support 3GPP fault. 3GPP fault as a separate domain; alignment with 3GPP. (3) FILE READY - VES event, add a field for the type of file. Sub: data field collector. Can use existing fields to support this. Applicable to other types of file beyond the PM file (e.g. trace, log files) want it to be generic. (Spreadsheet/Use Case Team): Indicates impact Timeline - meeting held Oct 2 to align 3GPP fault event, converging on an approach; another meeting next week Oct 7+. Maybe difficult to achieve by M2/M3 (Nov 7 2019) SUMMARY: (see CM Notify VES event)
CM notify new VES event.	CM notications are new impacting VES event registration & listener. VES publications happen before components use it. VES updates need to happen before development. VES event reg & listener, FM dictionary. Modeling updates by M2. A finalized VES document might be difficult by Nov 7 IMPACTS: ORAN/ONAP Harmonization U/C, OOF/SON/PCI Use Case, and RunTime DB Use Case. SUMMARY: DCAE commits, but wants to follow-through on the definition of the VES definitions. WARNING: M2/M3 deadline for M2/M3 Nov 7 2019. Collector change to accommodate VES
5G / Runtime DB	Wiki Page: CONFIGURATION PERSISTENCE SERVICE R6 Epic #1: Base RunTime DB Development E1a. VES/DCAE pathway to provide configuration notification RunTime DB (see also the ORAN/ONAP harmonization U/C ROW ABOVE - CM O1 Notification). DCAE collectors needs a new domain for CM Notify. No additional impact expected to USE the CM Notify. RunTime DB SUBSCRIBES to the CM Notify Event. E1b. VES Event Listener Document to be updated. E1c. New VES Event domain (CM Notify) to be introduced (DCAE VES Listener) (Direct invoke API).  DCAE GEN2-1769 - Add stndDefined domain to VES Collector CLOSED SUMMARY: (impact captured in the CM notify VES impact)
5G / NRM CM w/ RESTful HTTPS	No Impact ?
5G / Licensing Management	No Impact. Modeling & architecture work for R6.
SERVICE RESOLVER	No Impact?? (Wiki lists nothing) ??

SCALING	Wiki Page: Scaling Use Case (Frankfurt) Goal: Manual and Automatic Scale In Scale In Trigger (Priority: 2) Support creating a Threshold Alert (TA) when capacity needs to be reduced Send the TA to Policy No new functionality for scaling expected. SUMMARY: Needs Investigation.
Mobile Service Chaining & Service Selection	Wiki Page: MOBILE SERVICE CHAINING We want close loop mechanism for service chaining operation Policy Framework, DCAE, and Service Orchestration Project may be upgraded SUMMARY: Need Investigation.
BBS	Wiki / PPT slide indicates no impact (Spreadsheet/Use Case Team): Indicates impact SUMMARY: No impact
CCVPN	Wiki Page: CCVPN Use Case in Frankfurt Release (Spreadsheet/Use Case Team): Indicates impact SUMMARY: Needs Investigation
Control Loop	Self Serve Control Loops - continuation from Dublin PNF support in Control Loops - non-service Control Loops Adding Policy Update and PEP (Policy Enforcement Point) registration with Policy for updates on Decision Policies CLAMP would provide arbitrary blueprints to DCAE instead of SDC. CL Event format standardization to VES (Spreadsheet/Use Case Team): Indicates impact SUMMARY: DCAE some things are committed. Separate requirements created.
Multi Domain Optical Service L0/L1 Orchestration	Wiki Page: Multi-domain Optical Network Services (Spreadsheet/Use Case Team): Indicates impact SUMMARY: Needs Impact assessment.
CHANGE MANAGEMENT	Wiki Page: Change Management Frankfurt Extensions (Spreadsheet/Use Case Team): No impact listed SUMMARY: No impact.
HPA	Wiki Page: Continuation of HPA SUMMARY: Needs investigation
RUN TIME SECURITY	No Impact?? (Wiki lists nothing)
K8S Based Cloud Region Support	Wiki Page: K8S based Cloud region support (Continue from R4) (Spreadsheet/Use Case Team): SUMMARY: Needs investigation
DAaaS	(Spreadsheet/Use Case Team): Indicates impact

3rd Party Operational Domain Manager	Wiki Page: Third-party Operational Domain Manager SUMMARY: Needs investigation
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KEY PRESENTATIONS & OVERVIEWS & RECORDINGS

DATE	TOPIC	PRESENTER	DESCRIPTION
Apr 10, 2019	Controller LCM API Evolution	Oskar Malm	- Target is common LCM API in CCSDK usable by different controller personas to simplify for both clients and controller implementations - Support PNFs for applicable LCM operations in a consistent way - Enable use of CDS blueprint processor to customize behavior of LCM operations in the 'self-service' category - In ONAP R4, CDS can be used for pre/post-instantiation configuration. Generic and model-driven design should allow CDS usage to be extended for additional operations and use cases. - Evolution steps that preserve backwards compatibility for clients https://wiki.onap.org/download/attachments/50202249/2019-04-09%20ONAP_LCM_API_Evolution_EI_Alto.pptx?api=v2
May 1, 2019	A&AI Graph Visualizer	Pavel Paroulek	Visualizer for A&AI Model Layout Use Case Realization Call: May 1, 2019
May 8, 2019	A&AI Model Browser, Sparky	James Forsyth	A&AI developer Model Browser to navigate and viewing attributes, object types & edge view Recording & Slides: Use Case Realization Call: May 8, 2019
May 15, 2019	A&AI Run Time Browser (Sparky)	Giulio Graziani	A&AI Run-Time Browser
May 22, 2019	Edge Automation Overview & Discussion	ramki krishnan	Central & Distributed Edge ONAP configuration. Topics include: Onboarding, Instantiation, Edge Orchestration, A&AI, Architecture, Work-flows, Multi-Tenancy Use Case Realization Call: May 22, 2019
May 29, 2019	Modeling S/C , Use Case Project Teams, Architecture S/C Way of Working	Benjamin Cheung	Model S/C (Sub committee) contributions page: Modeling sub-committee Contributions https://wiki.onap.org/display/DW/Proposed+ONAP+Release+Process+Updates+for+Information+and+Data+Modeling
Jun 5, 2019	Use Case slides for Dev. Forum	Benjamin Cheung	Use Case Realization Call: June 5, 2019
July 10, 2019	R6: PNF Software Upgrade Overview & Discussion	Zu Qiang (Ericsson) Ulas Kozak yaoguang wang	ONAP Read the Docs/R4 Announcements WIKI: PNF software upgrade in R6 Frankfurt Overview & Presentation
July 24, 2019	R6: OOF/SON PCI Use Case Demo, Overview & Discussion	N.K. Shankaran arayanan	OOF / PCI / SON Use Case Demo
Aug 7, 2019	5G NRM (Network Resource Model) Configuration U/C Overview	yaoguang wang	5G NRM (Network Resource Model) Configuration U/C Overview & Presentation
Aug 14, 2019	ORAN Standards Harmonization U/C Overview	Marge Hillis Vimal Begwani	ORAN Standards Harmonization U/C Overview & Presentation
Aug 21, 2019	Modeling Sub-Committee guidelines & Use Case Interactions	Andy Mayer Hui Deng	Modeling S/C Process Wiki: Proposed ONAP Release Process Updates for Information and Data Modeling Use Case Tracking Template and Use Case Template R6 Modeling High Level Requirements Planning Page: ONAP R6 Modeling High Level Requirements
Sept 4, 2019	Licensing Management Overview	Timo Perala Samuli Kuusela	Introduction of Licensing Management in R6

Sept 11, 2019	SDC & R6 Use Case Impacts Discussion	Ofir Sonsino	Discussion with SDC PTL Ofir w/ the Use Case Teams and SDC commitments. See the summary Table for SDC impacting Use Cases.
Sept 18, 2019	VID & R6 U/C Discuss Preparation for Technical Conference Antwerp	Ittay Stern Use Case Teams	Discussion with VID PTL (Ittay Stern) for R6 Use Case Impacts discussion and commitments for VID impacting Use Cases Preparing slides for Use Cases at the Technical Conference Antwerp (for 5G/PNF use cases)
Sept 25, 2019	A&AI & R6 Use Case Impacts Discussion	James Forsyth	Discussion with A&AI PTL (Jimmy Forsyth) and Chandra Cinthala for R6 A&AI Use Case Impacts discussion and commitments.
Oct 2, 2019	DCAE & R6 Use Case Impacts Discussion	Vijay Venkatesh Kumar	Discussion with DCAE PTL (Vijay Kumar) for R6 Use Case Impacts discussion and commitments for DCAE impacting Use Cases
Oct 9, 2019	M1 U/C discussion	Use Case Teams	M1 Deadline (Oct 10 2019)
x, 2019	SO & R6 Use Case Impacts Discussion	Seshu Kumar Mudiganti	Discussion with SO PTL (Seshu Kumar) for R6 Use Case Impacts discussion and commitments.
x, 2019	Release Manager Discussion	David McBride	Discussion with David McBride of the Linux Foundation, the R6 Release Manager regarding practices, wiki page updates, Jira dashboard and what is a use case?
x, 2019	RunTime DB Discussion	Joanne Liu Rudel Benjamin Cheung	Discussion of the RunTime DB Use Case in R6 Frankfurt which introduces a Common Service Data Layer for a data lake to store configuration and operational parameters.
x, 2019	PoC Planning & Discussion	Tracy Van Brakle	Combination Plugfest & PoC 1st week of December bringing together subset of ONAP modules as SMO (svc mgmt orchestration) layer w/ other artifacts from ORAN S/W (LF). LF will publicize. Planned June 2020.
x, 2019	Discussion of Use Case Template for R7	Andy Mayer Scott Blandford	Filling out, describing and creating the Wiki for a Use Case Use Case Tracking Template and Use Case Template Proposed Functional Template for Use Cases

SUPPORTING DOCUMENTATION

Document	File
Use Case Impacts Spreadsheet	 R6Frankfurt-Use...Sept2019v4.xlsx

RECORDING

Recording	FILE
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Zoom Video &
Audio (MP4)



zoom_0.mp4

Audio Only (M4A)



audio_only.m4a

Playback (M3U)



playback.m3u

Chat (Txt)

