

Casablanca Release Requirements

The page is intended to summarize all the requirements for Casablanca Release. These requirements will need to be prioritized to realistically fit within the [Casablanca Release Timeline](#).

This is not yet the Casablanca Release scope. Release Scope will be finalized by M1 Release Planning.

Projects intended to participate within [Casablanca release are posted in wiki](#).

New projects proposal are [posted here](#). These projects need to be reviewed and approved by TSC.

Some of the Use Cases, Functional and non functional requirements are carried over from previous Amsterdam and Beijing Releases as they required multiple releases to be implemented.

The [Requirements extracted from SP lists of priorities for Casablanca](#) are covered either by the Use Case, the functional requirements, the non functional requirement or within a project scope of work.

- [Use Cases](#)
- [Functional Requirements](#)
- [Non Functional Requirements](#)

Use Cases

Use Case	Owner	Projects or functional requirements Impacted for Casablanca	Link(s) to High Level Design (HLD) /Low Level Design (LLD) (if any)	Dependency (from/to) another project(s)	T- Shirt Size (XS, S, M, L, XL)*	Project's Impact: Test Only (TO), Code (C)	Committed (C) /Partially Committed (P) or not (N) per Impacted projects	If Partially or not Committed, then what are the gaps per impacted project (people /FTEs; HLD /LLD; etc)	Company Engagement	Notes	M4 Status
vFW	AT&T	HPA				All: Test Only	N/A - part of regression tests	N/A - part of regression tests			
vDNS	AT&T	HPA				All: Test Only	N/A - part of regression tests	N/A - part of regression tests			
VoLTE	China Mobile	HPA				All: Test Only	N/A - part of regression tests	N/A - part of regression tests			
vcPE	Kang Xi	HPA				All: Test Only	N/A - part of regression tests	N/A - part of regression tests			

CCVPN	LIN MENG Chaker Al-Hakim	SO,OOF, SDNC, UUI, integration Stretch goal: SDC, DCAE, external API. NOTE: No project should be code impacted by this use case.	Materials Lin Meng. Material Jianguo Zeng			All: Test Code: SO, OOF, SDNC, UUI Stretch goal: SDC, DCAE, external API, CCSDK, HOLMES, POLICY	SO:committed, OOF: committed (Huawei resources as required). UUI:committed Integration: committed SDNC: (Huawei resources as required). Stretch goal: DCAE : Not committed (Huawei &CMCC plan to contribute) SDC: Not committed External API: (VDF & huawei plan to contribute) CCSDK: (Huawei resources as required). HOLMES: (Huawei & ZTE to contribute) POLICY: (Huawei & CMCC to contribute)	if projects not committed is just in stretch goal, then we will dev based on exist features, may impact some usability, but won't impact the final result. DCAE : From discussion with Xin Miao (Huawei), this usecase requires new RESTCONF collector to be added into DCAE.This cannot be committed for R3 due to pending requirement clarification and architectural alignment besides resourcing constraint.	China Mobile, Vodafone, Huawei, ZTE	Contingent that Use Case owner are able to add resources on impacted projects and Integration agreement. Refer to this link for CCVP N closed loop related support in R3.	ON TRACK POC Demo planr ONS at Amsterdam
OSAM /PNF	Sumithra Bhojan Bora Eliacik Ryan Hallahan	SO, Portal, External API, APPC, DCAE HPA **NOTE: OSAM uses the PNF capability similar to 5G use case. No new development efforts were identified to support OSAM using PNF VNFRQTS (include PNFs)	OSAM Material			All: Test Only			ATT, Turk Telecom, Swisscom	Contingent that Use Case owner are able to add resources on impacted projects and Integration agreement	POSTPONE Not M4 Gating No Component development req for this usecase in Casablanca Integration testing delayed due to resource constrain Defer to Dublin

★ T-Shirt Size: Ballpark estimation for assessing the development/testing activities performed by the project team; not the integration team

- XS - <4 Man/Weeks;
- S - ~6 Man/Weeks;
- M - ~8 Man/Weeks;
- L - ~12 Man/Weeks;
- XL - > 12 Man/Weeks.

Functional Requirements

Functional Requirements	Owner	Projects Impacted for Casablanca	Link(s) to High Level Design (HLD) /Low Level Design (LLD) (if any)	Priority (from SP perspective)	Dependency (from/to) another project(s)	T-Shirt Size (XS, S, M, L, XL)*	Project's Impact: Test Only (TO), Code (C)	Committed (C) /Partially Committed (P) or not (N) per Impacted projects	If Partially or not Committed, then what are the gaps per impacted project (people /FTEs; HLD /LLD; etc)	Company Engagement	Notes	M4 St
-------------------------	-------	-------------------------------------	---	-----------------------------------	--	---------------------------------	--	---	--	--------------------	-------	-------

HPA	Alexander Vul	VNFSDK (minor) SDC (minor) Policy OOF (minor) SO (minor) AAI, Multi-Cloud VNFQTS	HPA Enhancements (For Casablanca Release)	Orange: 2 ATT: 2 China Telecom: 2 China Mobile: 1 Verizon: 2 Vodafone: 2	VNFSDK: none SDC: VNFSDK, VNFD model Policy: SDC OOF: SO, Policy, AAI AAI: Multi-Cloud	VNFSDK: M SDC:XS Policy: M OOF: S SO: S AAI: S/M Multi-Cloud: M	VNFSDK (C) SDC (TO/C) Policy (C) OOF (C) SO (C/TO) AAI (C) Multi-Cloud (C)	Policy: Committed based on Intel providing resources OOF: Committed VNFSDK: Committed SDC: committed based on Intel contribution. SO: committed AAI: committed based on Intel resources. Multi-Cloud: committed		Intel China Mobile AT&T VMware ARM		 All code submitted  Unresolved SDC - tv required Update: on SDC address
Change Management - Flexible designer /orchestrator	Ajay Mahimkar	SDC, SO, VID	Link to Slide	Orange: 1 ATT: 1 China Telecom: 2 China Mobile: 2 Verizon: 1 Vodafone: 2	VID: on SO SDC: on SO	SDC:XL VID: M	Code: SO, VID,SDC	VID: Not committed (Note: VID part is "nice to have" - no dependency on VID from other projects) SDC: committed based on Amdocs contribution SO : Committed (with support from ATT resources)	VID: requires additional resources	AT&T, Amdocs		 Details  Details
Change Management - traffic migration	Ajay Mahimkar	SDNC, APPC, VNFSDK	Link to Slide	Orange: 1 ATT: 1 China Telecom: 2 China Mobile: 2 Verizon: 1 Vodafone: 2			Code: SDNC, APPC	SDN-C: committed APPC: Not committed Orange: Committed	APPC: Not enough details on requirements, plus limited resources	AT&T, Orange, Intel		 Details  Details
Change Management - 5G PNF software upgrade	Ajay Mahimkar	SO, A&AI, Ansible/EC - test only support; SDNC /CCSDK- dev to incorporate 5G PNFs	Link to Slide	Orange: 1 ATT: 1 China Telecom: 2 China Mobile: 2 Verizon: 1 Vodafone: 2				SDN-C: Committed		AT&T, China Mobile, Huawei		 Details  Details  Ansible been successfully related L support
Change Management - CM scheduler	Ajay Mahimkar	OOF, VID VID - Nice to have - the functionality can still be delivered with OOF only (scheduler would need to be invoked through CLI)	Link to Slide	Orange: 1 ATT: 1 China Telecom: 2 China Mobile: 2 Verizon: 1 Vodafone: 2	VID on OOF	VID: S	Code: OOF, VID	OOF: Committed VID: Not committed (this can still be delivered with OOF)	VID: requires additional resources	AT&T		 Details  Details
Scaling Closed Loop Scaling (High Priority)	Scott Blandford	Policy, CLAMP, SO, DCAE	Link to Slides	Orange: 1 ATT: 1 China Telecom: 1 China Mobile: 1 Verizon: 3 Vodafone: 1	CLAMP: on Policy Policy: on SO	CLAMP: M	Code: SO, CLAMP, Policy Test: DCAE	CLAMP: Committed with risks (dependency on Policy) Policy: Committed with risks (TBD) SO: Committed DCAE: Committed		AT&T		 All code submitted

Scaling Beijing Improvements (High Priority)	Scott Blandford	APPC, SDNC, SO, AAI, VID			VID: on SO APPC: on SO	VID: XS AAI: XS	Code: APPC, SDNC, SO, AAI	AAI: Committed APPC: Committed SDNC: Committed SO: Committed VID: Committed		AT&T		 All code submitted (VID is in test environment)		
Scaling Controller_Topic_ID (Medium Priority)	Scott Blandford	SO							Code: SO	SO: Committed		AT&T		 All code submitted
Scaling Homing and Capacity Check (Low Priority)	Scott Blandford	Multi-VIM, OOF, SDNC, SO					OOF: on Multicloud and Policy	OOF: S	Code: OOF, SO, SDNC, Multi-VIM	OOF: Partially Committed	OOF: Resource issue if R2 solution needs to be extended for new policy constraints.	AT&T		 Pushed
5G/PNF Plug and Play	Benjamin Cheung Vimal Begwani Shekar Sundaramurthy	SDC, SO, SDN-C, A&AI, CDT, Modeling, VID, DCAE, DMaaP	Link to Slide	Orange: 2 ATT: 1 China Telecom: 3 China Mobile: 1 Verizon: 1 Vodafone: 2	VID: on SO	VID: S AAI: XS? need clarification on what's expected OOF: No impact	Code: VID Test Only: SDC Code : DCAE	VID: Committed based on Nokia's contribution SDNC: committed SO: Committed (with resources from Nokia) SDC: support based on current sdc capabilities from Beijing. APPC: No impact AAI: No code change, only modeling changes OOF: No impact DCAE: committed DMaaP: committed	APPC: Per review of slides, does not appear to be anything specific for APPC in Casablanca. Items mentioned are more longer term, roadmap items AAI: Expecting this to be modelling /schema updates only but unclear. Need additional information and analysis by AAI SMEs OOF: Additional information required on policies required for PNF placement DCAE: Committed based on Nokia's contribution on PRH	AT&T, Nokia,		 Code has been submitted  SO Code Checks completed  E2E Test updated (testing) ; whole file scenario (for testing)		
5G/PNF Software Version Reporting	Vimal Begwani Shekar Sundaramurthy	CCSDK, SDN-C	Link to Slide					CCSDK: committed SDN-C: committed		AT&T		 A&AI has been deployed  Usage in Upgrade pushed in		
5G/PNF Lifecycle Management Support (Restart, Suspend of PNF)	Vimal Begwani Shekar Sundaramurthy	SDN-C/SDN-R. Controller support for operations. SDNC (SDNR) dev to incorporate 5G PNFs	Link to Slide					OOF: Supports Change Management Scheduling SDN-C: Committed	Will address this via Change Management	AT&T, China Mobile, Huawei		 INV SDN-C is investigated ensure SDN Ansible.		
5G/performance Analysis and Optimization High Volume and RT Data Collection of PM	Benjamin Cheung Vimal Begwani Shekar Sundaramurthy	DCAE, DMaaP, SDN-R	Link to Slide	Orange: 2 ATT: 2 China Telecom: 1 China Mobile: 3 Verizon: 3 Vodafone: 3	DCAE: on DMAAP (native Kafka support)	OOF: M DCAE: L	code change: OOF Code : DCAE	CCSDK: committed SDN-C: committed OOF: No Impact DCAE: Committed (based on Nokia contribution) with dependency risk	OOF: Limited resources	AT&T, Nokia,	DCAE: Edge deployment support for R3, DDS-VES and new analytic platform (flink) not committed due to resource constraint	 ON T Code is Submitted		

5G/performance Analysis and Optimization Bulk PM	Oskar Malm Vimal Begwani Shekar Sundaramurthy	DCAE, DMaaP	Link to Slide		DCAE: on DMAAP-DR	DCAE:L	code change: DMaaP Code change: DCAE	DCAE: DataFile Collector- Committed (based on Ericsson Contribution) with dependency risk PMMapper - Partial Commit (Based on Ericsson contribution) + dependency risk – <i>Not a hard requirement</i>	DCAE: Dependency on DMAAP-DR + PMMapper (<i>Stretch goal</i>)	AT&T, Ericsson		 DMAAP  File colle with a fe Update f 4: File c  PM Map Dublin a
5G/performance Analysis and Optimization Optimization Framework Enhancements (Placement, Formulation, Solving)	Sarat Puthenpura Vimal Begwani Shekar Sundaramurthy Benjamin Cheung	OOF	Link to Slide			OOF: M	code change: OOF	OOF: Committed to SON		AT&T, Nokia, Reliance Jio		 All code submitte
5G/Network-slicing	Vimal Begwani Shekar Sundaramurthy Benjamin Cheung	Withdrawn from Casablanca release by the requirement owner		Orange: 3 ATT: 3 China Telecom: 1 China Mobile: 2 Verizon: 2 Vodafone: 3								

Centralized Representation and Consistent ID of Cloud Regions, Plan B, Phase 1: Centralized Representation of Cloud Regions	Bin Yang	SO, Integration	Centralized Representation and Consistent Identification of Cloud Regions In ONAP	Orange: 1 ATT: 2 China Telecom: 2 China Mobile: 3 Verizon: 1 Vodafone: 1			code : SO, Integration	SO: committed based on Intel's contribution Integration: committed			To align MVP, propose alternative action plan B: break this requirement into 3 phases. Phase 1 is to centralize the representation of cloud regions; Phase 2 is to apply consistent ID across all related ONAP projects. Phase 3 is to correlate and align dcaeLocation to AAI's cloud region. This phase requires further discussion, hence not listed here. Note on "Intel's contribution": This is the synergy effort with HPA, no further special changes needed here. hence this can be deemed as a dependency on HPA's impact on SO.	SO: will soon. Integration: TBD
Centralized Representation and Consistent ID of Cloud Regions, Plan B, Phase 2: Consistent ID of Cloud Regions	Bin Yang	SO,VID,SDNC, OOF,VFC, UUI, MultiCloud.	Centralized Representation and Consistent Identification of Cloud Regions In ONAP	Orange: 1 ATT: 2 China Telecom: 2 China Mobile: 3 Verizon: 1 Vodafone: 1	VID/SDNC: on SO SO/OOF/VFC: MultiCloud	VID: XS MultiCloud: S VFC:S	code : SO,VID, SDNC,OOF, VFC, UUI, MultiCloud	SO: not committed VID: Not Committed SDNC: Not committed OOF: Committed MultiCloud: Committed VF-C : Committed UUI: committed	SDNC: Limited resources VID: requires additional resources		MultiCloud VFC: no UUI: not	

Edge Automation Through ONAP (EA)	ramki krishnan Raghu Ranganathan Vimal Begwani Srinivasa Addepalli	A&AI, Multi-Cloud, OOF, SO	Edge Scoping MVP for Casablanca - ONAP Enhancements 1. Cloud - agnostic Placement /Networking & Homing Policies (Phase 1 - Casablanca MVP, Phase 2 - Stretch Goal)	Orange: 3 ATT: 3 China Telecom: 3 China Mobile: 3 Verizon: 2 Vodafone: 1	OOF: on MultiCloud & SO Multi-Cloud: on A&AI	SO: XS AAI: XS OOF: M Multi-Cloud: M-L	Code: OOF, Multi-Cloud, A&AI, SO Test: Integration (vFW use case)	Casablanca MVP: ■ OOF: Committed ■ Multi-Cloud: Committed ■ A&AI: Committed ■ SO: Committed				M4 on test projects Integrating Progress Agnostic Plan (in
Edge Automation Through ONAP (EA)	ramki krishnan Raghu Ranganathan Vimal Begwani Srinivasa Addepalli	Multi-Cloud	Edge Scoping MVP for Casablanca - ONAP Enhancements 2. Edge Scoping MVP for Casablanca - ONAP Enhancements#ONAP Enhancement s- Aggregated Infrastructure TelemetryStreams (Aligns with HP A requirements, Combining efforts with HP A)	Orange: 3 ATT: 3 China Telecom: 3 China Mobile: 3 Verizon: 2 Vodafone: 1		Multi-Cloud: M-L	Code: Multi-Cloud	Casablanca MVP: • Multi-Cloud: Committed				M4 on test projects Start Sprint metrics from Green No plan testing.

★ T-Shirt Size: Ballpark estimation for assessing the development/testing activities performed by the project team; not the integration team

- XS - <4 Man/Weeks;
- S - ~6 Man/Weeks;
- M - ~8 Man/Weeks;
- L - ~12 Man/Weeks;
- XL - > 12 Man/Weeks.

Non Functional Requirements

Non Functional Requirements	Owner	Sub-category	Project Impacted for Casablanca	Link(s) to High Level Design (HLD) /Low Level Design (LLD) (if any)	Dependency (from/to) another project(s)	T-Shirt Size (XS, S, M, L, XL)*	Project's Impact: Test Only (TO), Code (C)	Committed (C) /Partially Committed (P) or not (N) per impacted projects

S3P	Jason Hunt	- Performance - Stability - Resiliency - Security (see below) - Scalability - Manageability - Usability	Likely ALL depending upon TSC determination of new level requirements per category	Materials Usability: New API's adhere to Versioning strategy Versioning & API Documentation on Recommendations Manageability: Adherence to ONAP Logging Spec v1.2 (implementation of the spec will occur in Dublin - Logging Dublin Scope)	Portal: on AAF, MUSIC, OOM VID, Policy, SDC, AAI: on Portal	Portal: XL	Portal: Code	Portal: Not Committed APPC: Partial DCAE: Partial SDC: committed VID: Partial (depends on Portal) AAI: Partial
Security	Stephen Terrill		Note: This does not cover what is in S3P. However, based on that it is expected to have a certificate or use CADI to get certificates to enable secure communication Pluggable authentication and Authorization (Use of CADI and ?): - JAVA projects to use CADI client and enforcement point - Non-JAVA projects: Wait until there is multi-language. - All projects either need to have certificates (for secure communication) (based on a common trust store of AAF). The certificate distribution can be part of deployment mechanism and will be further detailed. Secure communication to xNFs (Security for 5G Use cases). DCAE, APPC, VFC? VNF requirements. (Secure Communication to Network Functions) - TLS and/or SSH for netconf (APP-C, SDN-C, CCSDK) - HTTPS security for VES (DCAE) (with certificates, slowly deprecating username/password) - Description of how the xNFs will get their certificates (VNFreqs). Vnf package security following SOL 004: SDC, VNFreqs, VNF SDC	Materials CADI/AAF Integration: AAF Documentation Client access to AAF	Portal: on AAF Test coverage (js): (1) js Sonar plugins activation (2) min. 3 additional containers per application => Jenkins enhancements (3) Maven build to be updated Risk #1 DMaaP on AAF DCAE on AAF, OOM, DMAAP OOM on AAF	Portal (CADI): M DCAE: XL SDC: L Test coverage (js): All: M/L	Portal: Code SDC: code VID: Code	Portal: Not Committed APPC: Partial OOF: Partial DCAE: Not Committed SDC: Partial VID: Partial (depends on Portal) AAI: Partial
Upgrade (from Beijing to Casablanca)	Helen Chen					All: XL		APPC: Not Committed CLAMP: Not Committed DCAE: Not Committed SDC: not committed VID: Not Committed AAI: Not committed

Architecture Alignment	Chris Donley	• API improvement • Realtime streaming • K8S Support (for VNFs)	 ONAP Cas... v2.pptx		DCAE on DMAAP (for DR)	DCAE:XL	DCAE: Partial Commit (New service committed based on Ericsson /Nokia) SDC: partial MultiVIM: Committed External API: Committed SO: Partially committed A&AI: partially committed CCSDK: committed	
HEAT support	Helen Chen Brian Freeman		HEAT-based ONAP deployment support should be dropped once OOM-based ONAP deployment's issues are fully identified and resolved. Recommendation from TSC: keep supporting HEAT in Casablanca for testing and integration purposes. However, HEAT won't be a gating item at Release Sign-Off.		Portal: on OOM	Portal: S SDC:S	Portal: Code SDC: code	Portal: Not Committed APPC: Will support Heat partially OOF: Support HEAT for testing SDC:committed VID: Partially
Internationalization language support	Tao Shen	• User Experience	 multi-language proposal.pptx Design language/internationalization component in Portal and provideserviceapistopartnering apps like Policy, VID, SDC, AAI Note: This will need to go through the whole process (Architecture review,...) to understand whatthesdk will be providing and dependenciesonother ONAP project (Portal, SDC,...) As per Lingli and Tao from chinamobile, this is reviewed and approved by Arch Team.		UsecaseUI: on Portal	Portal: L	Portal: Code	Portal: Partial APPC: Not Committed CLAMP: Not Committed SDC: Not committed VID: Not committed

Testing	Helen Chen	- Unit tests - CSIT tests	Most UI projects with javascript. Recommendation from TSC: This is related to Code Coverage: recommendation is to keep 50% Code Coverage for Casablanca including JavaScript. (In Beijing Release code coverage was only covering Java and Python code, not javascript)		Linux Foundation Unit test and CSIT coverage framework, Policy, VID, SDC, AAI: on Portal, DCAE (for JavaScript coverage)	Portal: XL SDC:S VID:S	Code: portal, SDC, VID	Portal: Partial (no Javascript) APPC: Partial, Java code will maintain 50%, no commitment for Javascript CLAMP: Partial, Java code will maintain 50%, no commitment for Javascript DCAE: Partial (except javascript) SDC: maintain 50% coverage for java and python add 10% coverage for UI (java script) VID: maintain 50% coverage for java add 10% coverage for UI (java script) AAI: Partial, Java code will maintain 50%, add 10% coverage for sparky (javascript)	
modeling	Hui Deng		SDC: needs to support composite pattern in R3 SDC/SO/A&AI needs to support Service Order, Service Catalogue, service scaling Modeling runtime needs to be supported by A&AI in release 3					SDC: not committed SO A&AI - changes to the run-time schema require significant refactoring in all of AAI's client applications. That refactoring might be planned and addressed in R4; for R3, perhaps mapping existing runtime schema to new model definitions can suffice?	

★ T-Shirt Size: Ballpark estimation for assessing the development/testing activities performed by the project team; not the integration team

- XS - <4 Man/Weeks;
- S - ~6 Man/Weeks;
- M - ~8 Man/Weeks;
- L - ~12 Man/Weeks;
- XL - > 12 Man/Weeks.