



SP priorities for Dublin




1. 01 Nov 2018 – is the last day for Service Providers to include their requirements into this page
2. 15 Nov 2018 – is the last day for providing use case/functional requirements as a candidates for Dublin
3. 29 Nov 2018 - is the last day for getting all of the requirements (architecture, security, projects, S3P etc.) and getting a single consolidated list so all of the projects have full picture of what is required from them. By this date, all use cases/functional requirements need to be discussed with a different projects, and demanded scope of development should be clear to the projects
4. Vf2f in December – making a decision of what is indeed included in Dublin, based on Service providers priorities and projects' commitments

REQ	Dublin Requirement, along with link for details or description	Service Provider Requesting (incl. SP name and requirement priority e.g. p1, p2, p3)	How to test (existing or new use case)	Owner (person)	Owner (project(s), S3P, functional requirement/use case)
1	K8S based Cloud-region support <ul style="list-style-type: none"> vFW as use case (with firewall as container, sink and generators as VMs) EdgeXFoundry use case 	Verizon: P1 Vodafone - P3	vFW use case (existing but with Helm charts) EdgeXFoundry use case (new use case)	Victor Morales	Impacted projects: Multi-Cloud, SDC, SO, VNFSDK, VNFRTS (Containerized VNF Onboarding, Helm Charts)(?) functional requirement
2	Continue SOL 003 Alignment work in VF-C - Aligned with VF-C PTL. Content will be finalized as part of Dublin planning	Verizon Deutsche Telekom - P3 China Mobile - P2 Vodafone - P1 Telecom Italia - P2			Project (VFC) development. VNFRTS (VNF Life Cycle Operations?)
3	Start SOL 005 Alignment work (with basic interfaces) between SO & VF-C - Had handshake with SO and VF-C PTLs. Content will be finalized as part of Dublin planning	Verizon Deutsche Telekom - P3 China Mobile - P2 Vodafone - P2 Telecom Italia - P2			Projects (VFC, SO) development
4	Implementation of "ONAP managing 5G as transport for CCVPN" usecase	Verizon Deutsche Telekom - P2 Vodafone - P1			Use case (CCVPN) extension, no details available
5	Change Management extension including 5G requirements	Orange - P1 AT&T - P1 Vodafone - P2		Ajay Mahimkar, Lukasz Rajewski to be confirmed	Functional requirement (Change Management) extension
6	True orchestration. We still need too many manual tasks to deploy a service (preload, various requests to deploy a service...)	Orange - P1 Verizon - P1 Deutsche Telekom - P1 Swisscom - P1 Bell Canada - P0 Vodafone - P1 Telecom Italia - P1		Alexis de Talhouët Eric Debeau	Architecture enhancement (SO, SDNC, CDS)
7	Service modeling extension. Need to define service parameter and their link with VNF or network parameter. Need to define parameters that can be modified by end-user	Orange - P2 Vodafone - P2		Eric Debeau	Modelling enhancement (SDC, SO, AAI)

8	Tooling to operate ONAP: provide set of tools to configure ONAP via GUI (eg users, roles...), to restore the set of database...	Orange - P2 Verizon - P1 Deutsche Telekom - P3 Vodafone - P3 Telecom Italia - P3			<u>Project (OOM) development</u>
9	Provide accurate documentation for operational teams, for newcomers	Orange - P0 Verizon - P0 Deutsche Telekom - P1 China Mobile - P1 Swisscom - P1 Vodafone - P0 Telecom Italia - P1			<u>Documentation, all projects</u>
10	External API extension to include service modification	Orange - P2 Verizon - P3 Deutsche Telekom - P3 China Mobile - P3 Swisscom - P1 Vodafone - P2 Telecom Italia - P2	BBS use case (proposal)	Matthieu Geerebaert	<u>Project (External API) development</u>
11	No more hard coded components for the use-cases. ONAP is a platform to run various use-cases (similar to requirement #6 and #24)	Orange - P2 Verizon - P1 Deutsche Telekom - P1 Swisscom - P1 Vodafone - P1 Telecom italia			<u>Architecture enhancement</u>
12	Footprint optimization: reduce image size, avoid image duplications, reduce memory requirements.	Orange - P1 Verizon- P1 Deutsche Telekom - P2 Swisscom - P3 Vodafone - P3		Mike Elliott Adolfo Perez-Duran Sylvain Desbureaux To be confirmed	<u>Projects (OOM + All projects) enhancements</u> <ul style="list-style-type: none"> CIA Project - reducing image sizes OOM - OOM-1475 - Shared Database Instances CLOSED
13	Stability first. Code must be more robust, more secure. Integration must focus on code stability and not on use-cases verification	Orange - P0 Verizon - P0 Deutsche Telekom - P0 Swisscom - P0 Vodafone - P0 Telecom Italia - P1			<u>S3P (Integration + All projects)</u>
14	5G requirements (cf ORAN) PNF discovery Support of parameters/algorithm /model configurations	Orange - P1 Deutsche Telekom - P2 AT&T - P2 Vodafone - P3 Telecom Italia - P1			<u>Use case 5G (SDC, AAI, APPC, etc.)</u> VNFRQTS (covering PNFs)

15	Core Service/VNF LCM state and transition model - Description of the LCM model - Monitoring of the state - Requirements towards VNF providers	Deutsche Telekom - P1 Vodafone - P1		Michael O'Brien - for Logging	<p>Architecture enhancement (Controller (SDNC, APPC, VF-C), SO, Modelling, Log (Pomba?))</p> <p>VNFRQTS</p> <p>Logging Dublin Scope</p> <div>  LOG-707 - Logging El-Alto (moved from) Dublin Scope CLOSED </div> <div>  LOG-976 - S3P: Logging for Core Service/VNF state and transition model - Deutsche Telekom and Vodafone CLOSED </div>
16	Focus on Platform Automation Usecases (e.g. Scale In-Out, Upgrade of VNFs) to show the E2E Management capabilities of ONAP (addition to lines 6, 11) (similar to requirement #6 , #24 , #11)	Deutsche Telekom - P1 AT&T - P1 (Assuming it overlaps with Req# 5 & 30) Vodafone - P1 Telecom Italia			<p><u>Use cases (platform capabilities)</u></p> <p>VNFRQTS</p>
17	Classification of core dependencies between e.g. Service/VNF components to support root cause analysis and alignment of change procedures (LCM)	Deutsche Telekom - P2 Vodafone - P2			<u>Modelling enhancement</u>
18	PNF Modelling and Lifecycle Management to support the well defined exposure of the service endpoints (e.g. support for Edge /OSAM usecases)	Deutsche Telekom - P2 Swisscom - P1 AT&T - P1 Turk Telekom - P1 Vodafone - P3 Telecom Italia - P1			<p><u>Use case 5G (PNF support (Modelling, SDC))</u></p> <p>VNFRQTS</p>

19	The logs of SO, SDC, SDNC, DCAE, and AAI need to be optimized. The log location of error is not particularly clear	China Telecom - P1 Deutsche Telekom - P3 Vodafone - P3	Michael O'Brien	S3P and projects (SO, SDC, SDNC, DCAE, and AAI) Logging Dublin Scope <div>LOG-707 - Logging El-Alto (moved from) Dublin Scope CLOSED</div> <div>LOG-877 - S3P: Logging streaming/format alignment for dublin - China Telecom, Deutsche Telekom, Vodafone CLOSED</div> <div>LOG-487 - LOG Pipeline Integrity: Docker to Filebeat to Logstash to Elasticsearch to Kibana CLOSED</div> <div>SO-4440 - Re-add Filebeat sidecars to SO after 2-9 container refactor CLOSED</div> <div>LOG-478 - Log Specification Alignment - each onap component CLOSED</div> <div>LOG-376 - Logstash full saturation of 8 cores with AAI deployed on one of the quad 8 vCore vms for 30 logs/sec replicaSet 1 to 3 or use DaemonSet CLOSED</div> <p>See deployment diagram for streaming compliance plan</p>	
20	Tomcat, mongodb, zookeeper, it is recommended that each docker use a unified version	China Telecom - P1 Deutsche Telekom - P2 China Mobile - P3 Vodafone - P3		S3P and projects	
21	Some dockers use mysql in onap, some use mariadb, different dockers use the same database version is also inconsistent, resulting in very confusing, it is recommended to have a unified version and software.	China Telecom - P1 Deutsche Telekom - P2 China Mobile - P3 Vodafone - P3		S3P and projects (SDNC,APP-C,PORTAL,VID,NBI,CLAMP,Policy,SQ) <div>OOM - GOM-1475 - Shared Database Instances CLOSED → Mike Elliott)</div>	
22	Onap's heat and oom mode deployments require openstack support, so how onap handles and breaks some of the limitations of openstack, such as the limit of 100 stacks.	China Telecom - P1 Deutsche Telekom - P3 Vodafone - P3		See Roger Maitland and Eric Debeau comments below_OOM ?S3P	

23	Ability to model running instance of VNF / NS and associate it as part of NS Design (description is under Release 4 (Dublin) Service Providers (EUAG) Requirements / Proposals)	Verizon Deutsche Telekom - P3 China Mobile - P1 Vodafone - P1 Telecom Italia - P1			<u>Modelling enhancement</u>
24	Enable Self-Service use of ONAP (description is under Release 4 (Dublin) Service Providers (EUAG) Requirements / Proposals) (similar to requirement #6 and #11)	Bell Canada - P1 Deutsche Telekom - P2 Vodafone - P2 Telecom Italia - P2			<u>Architecture enhancement</u>
25	Multi-site / Geo-redundancy (description is under Release 4 (Dublin) Service Providers (EUAG) Requirements / Proposals)	Bell Canada - P1 Deutsche Telekom - P2 Vodafone - P2		Mike Elliott	<u>S3P and Architecture enhancement</u> OOM providing additional geo-diversity platform capabilities. <div> OOM-346 - Platform Resiliency (Recoverability, High-Availability, Geo-Diversity) CLOSED</div> Note: Project teams can build on platform capabilities to provide application level geo support.
26	PNDA integration (description is under Release 4 (Dublin) Service Providers (EUAG) Requirements / Proposals)	Bell Canada - P1 Deutsche Telekom - P1 China Mobile - P1 Vodafone - P2			<u>Project (DCAE, CLAMP)</u>
27	ONAP Databases as a service (description is under Release 4 (Dublin) Service Providers (EUAG) Requirements / Proposals)	Bell Canada - P1 Deutsche Telekom - P2 China Mobile - P3 Vodafone - P3		Mike Elliott	<u>Project (OOM)</u> Building on Casablanca deliverables to provide MariaDB Cluster as first DBaaS implementation - <div> OOM-1193 - Create Shared Instance of MariaDB-Galera CLOSED</div>
28	Enhanced ONAP CI (description is under Release 4 (Dublin) Service Providers (EUAG) Requirements / Proposals)	Bell Canada - P1 Deutsche Telekom - P1 Vodafone - P3 Telecom Italia			<u>S3P</u>
29	Use of secure credentials storage for native ONAP functionality (description is under Release 4 (Dublin) Service Providers (EUAG) Requirements / Proposals)	Bell Canada - P1 Deutsche Telekom - P2 Vodafone - P2			<u>Project (AAI)</u>
30	VNF scaling enhancements: Manual and Automatic Scale In	AT&T - P1 Vodafone - P1		Scott Blandford	<u>Functional requirement</u> Impact Details Here . APPC, SDC, SDNC, DCAE, OOF, Policy, SO, CLAMP, VID, VNFRQTS
31	OSAM	AT&T - P1 Swisscom - P2 Turk Telekom - P1 Vodafone - P3 Telecom Italia			<u>Use case</u>
32	Edge Automation WG - "Analytics-as-a-service for Service Assurance" Fine Grain Placement Service (F-GPS) Edge Automation (Dublin) More information here: <div> ONAPARC-280 - Service Assurance with Big Data Analytics OPEN</div>	China Mobile - P1 Vodafone - P3 Verizon AT&T	Fine Grain Placement Service (F-GPS) Edge Automation (Dublin)	Srinivasa Addepalli (Temporary)	<u>Functional requirements:</u> Edge Automation WG – ramki krishnan , Raghu Ranganathan Projects: DCAE, CLAMP, A&AI (TBD), Multi-VIM/Cloud (TBD)

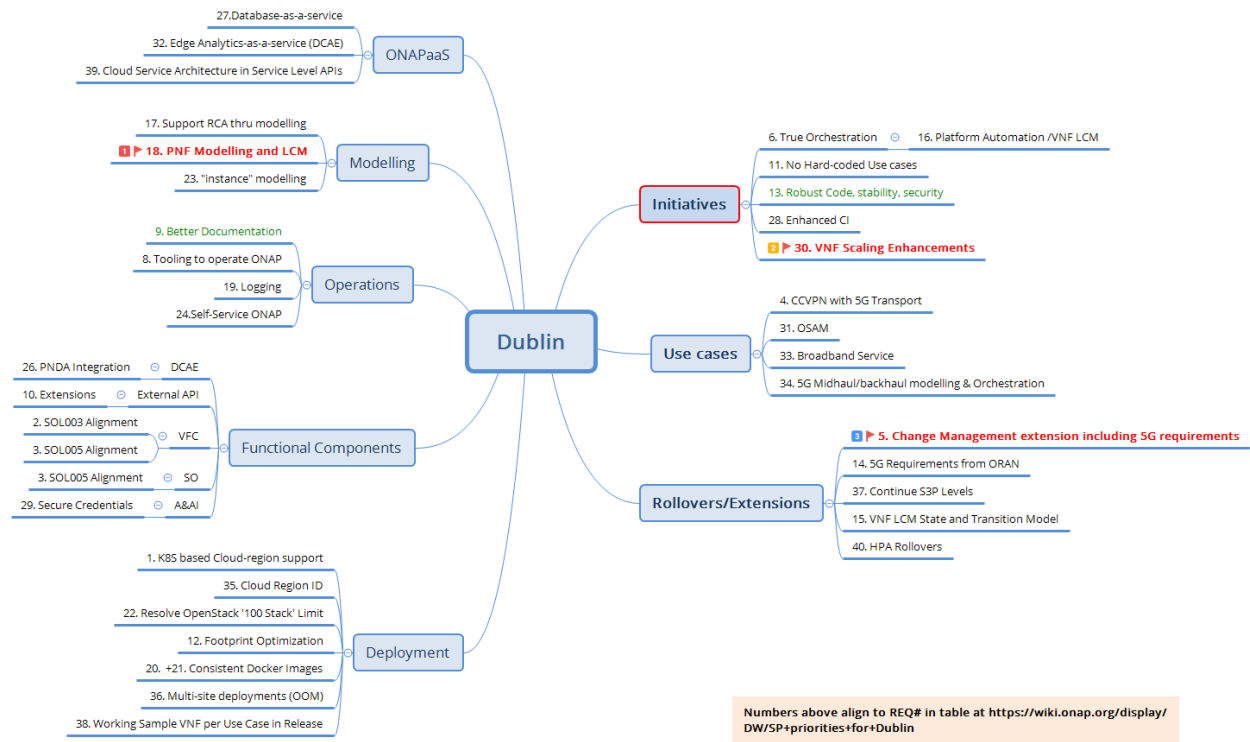
33	<p>BroadBand Service requirements:</p> <ul style="list-style-type: none"> - support for nomadic PNF (discovery, re-registration), - service change order using External API, - E2E service reconfiguration, - consider scalability of ONAP components to support provisioning and assurance of high number of customer facing service instances (AAI, SO...) <p>BBS Broadband Service Use Case (Dublin)</p>	<p>Swisscom - P1</p> <p>Vodafone - P3</p> <p>Telecom Italia</p>		<p>David Perez Caparros</p> <p>Chaker Al-Hakim</p>	Use case
34	5G requirement: 5G middle /backhaul modeling and orchestration	<p>China Telecom - P1</p> <p>China Mobile - P2</p> <p>Vodafone - P2</p> <p>Telecom Italia</p>			Use case - details are needed
35	Consistent ID of a Cloud Region (Dublin)	AT&T - P1		Bin Yang	<p>Functional requirement</p> <p>SO,VID,SDNC,OOF, UUI,VFC</p>
36	<p>Evolve OOM to support Multi-site deployments of ONAP and meet Operator requirements</p> <p>(Likely aligns /overlaps with requirement #25 above)</p>	<p>AT&T - P2</p> <p>Vodafone - P2</p>		Mike Elliott	<p>Project (OOM and (likely) all components it deploys)</p> <p>Please see OOM comments added to #25</p>
37	<p>Continue progress on S3P levels across components</p> <ul style="list-style-type: none"> • Complete unfinished Casablanca S3P requirements by component <ul style="list-style-type: none"> ◦ For example: CADI /AAF integration, support for HTTPS /encrypted communications, Adherence to ONAP Logging Spec • Measured progress on CII badging level and unit test coverage percentages 	<p>AT&T - P2</p> <p>China Mobile - P3</p> <p>Vodafone - P3</p>		<p>Michael O'Brien (Logging)</p>	<p>S3P Most (all?) components depending on current S3P levels achieved</p> <div> LOG-380 - Platform Maturity: Performance, Stability, Resiliency, Scalability CLOSED </div> <div> LOG-877 - S3P: Logging streaming/format alignment for dublin - China Telecom, Deutsche Telekom, Vodafone CLOSED </div> <div> LOG-876 - S3P: Logging for Core Service/VNF state and transition model - Deutsche Telekom and Vodafone CLOSED </div> <div> LOG-376 - Logstash full saturation of 8 cores with AAI deployed on one of the quad 8 vCore vms for 30 logs/sec replicaSet 1 to 3 or use DaemonSet CLOSED </div> <div> LOG-494 - Use Search Guard Community Edition for TLS REST encryption CLOSED </div> <div> LOG-787 - Logging El-Alto (moved from) Dublin Scope CLOSED </div> <div> LOG-478 - Log Specification Alignment - each onap component CLOSED </div> <div> LOG-487 - LOG Pipeline Integrity: Docker to Filebeat to Logstash to ElasticSearch to Kibana CLOSED </div>
38	The End-End use cases that define the functionality of ONAP releases, and are tested by Integration test should include validation of the example VNFS used by ONAP (e.g. vFW) using the test scripts for HEAT templates (from VVP project) or TOSCA (from VNFS SDK project)	<p>AT&T - P3</p> <p>Vodafone - P3</p>	run validation tests on the VNFS used by ONAP during integration test - TOSCA packaged VNFS using VNFS SDK validation scripts and HEAT VNFS using VVP	<p>Steven Wright</p>	<p>Integration project</p> <p>VNFS SDK @ Weitao Gao</p> <p>VVP @ Steven Wright @ Trevor Lovett</p> <p>INT @ Helen Chen</p> <p>applies to ALL uses cases tested by ONAP</p> <p>ALL ONAP VNFS should have their conformance to VNFRQTS documented in ReadTheDocs for the Release. This shc include links to the VNF Packages used for onboarding.</p>

39	Using "Cloud Services Architecture" constructs in building service level APIs	Verizon			
40	<p>Continuation of HPA (Mostly Hardening - Add new e2e test cases, automate the integration steps for continuous testing). Automation for various use cases (vFW, vDNS with different HEAT templates, vCPE with different TOSCA templates)</p> <p>Exceptions:</p> <ul style="list-style-type: none">▪ Bring ONAP and Openstack based based cloud regions manually.▪ Register cloud regions via ESR in ONAP. <p>Automation scripts to do following:</p> <ul style="list-style-type: none">• Create CSAR from demo repository.• Onboard CSAR in SDC using SDC API• Prepopulate SDNC items• Upload HPA policies using POLICY FW API• Instantiate service and VNF using SO API• Check that VNF workloads are instantiated with right cloud region and flavor.• Check that VNFs are working.• Bring down the VNF• Start next automated test <p>Even though this work is as part of HPA, we hope that this work helps in stabilization of code, checking for any regression on continuous basis.</p>		Alexander Vul		
41	VSP Compliance Check within SDC	Vodafone		Rabi Abdel	VSP Compliance Check within SDC (Dublin) - Phase 1

Analysis of Requirements

13 Nov 2018 [Kevin McDonnell](#) The following are some aids to help understand the table above. **The official roadmap and priorities are maintained elsewhere (Jira) so the data below will grow stale immediately!**

1. [Dublin SP Priorities -latest.pdf](#) (Mindmap of Requirements, PDF)
2. [Dublin SP Requirements-Latest.xmind](#) (Mindmap of Requirements, using XMind)
3. [Dublin SP Requirements-Ranked.xlsx](#) (Ranking of Priorities, XLS)



The highest priority SP requirements are **PNF support, scaling and change management**.