

Agenda



- Why Operator Feedback vital for XGVELA success
- Pain Points of traditional CaaS model
- XGVELA architecture and Suggestions
- Prioritizing Operator Requirements for 2021
- 2021 Operator Requirements collection status XGVELA
- Telco PaaS Use Cases
 - 5G Private Networks
 - 5G Edge Deployments

Agenda and Background



- Voice of Telco Operator community alignment with XGVELA Progress
 - Use 5G CNF deployment early experience and knowledge to drive XGVELA Release1(Q3 2021)
 - Collect Pain points of 5G delivery
 - Analyze E2E service requirements with two starting use cases of 5G Private and Edge deployments to segregate XGVELA impacts on
 - 1. ONAP /OSM and Proprietary Orchestration
 - 2. CI/CD
 - 3. Integration with Live Network
 - 4. Hybrid Cloud Infra management
- 2021 Key Targets
 - 1. Optimize XGVELA architecture function modules in vendor agnostic fashion
 - Define and Integrate XGVELA specification with ANUKET (Avoid OverLaps)

Points under review in XGVELA Tech group NETWORKING



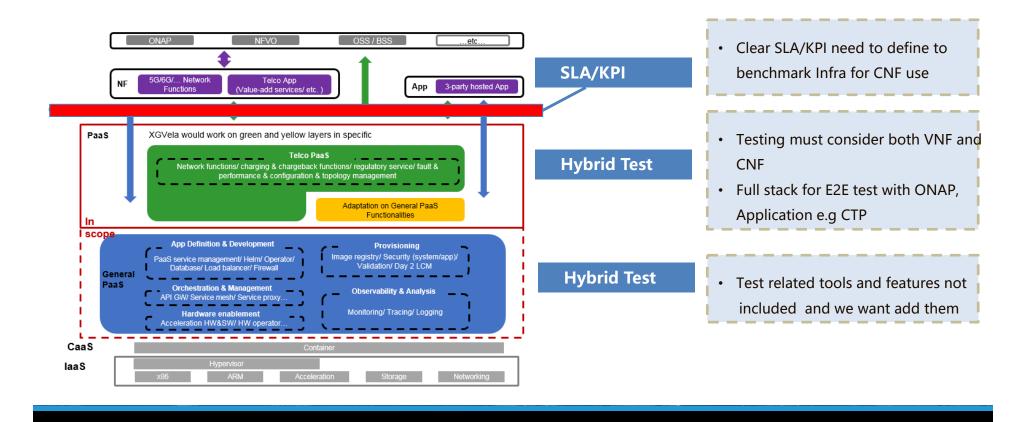
- **Enablement of 5G CNF and Edge Applications**
 - Enable Developer to prepare unique offering for each segment and vertical
 - Till now Delivery model is Vendor do Develop and Operator do Integrate and Test
 - Industry /Enterprise will need changes based on use case, traffic model and hyperscale's are already doing it today, this is a pressing industry issue for all operators now
- **Update required in NFV and MANO Architecture**
 - 1. ETSI thoughts> CNF and VNF are both same NF with only deployment differences ,need avoid new specs otherwise serverless , unicorns all will need new myriadal changes
 - VNFM/CIM need combine
 - Similarly NFVO and Cloud infra need align to deliver E2E use cases

Pain Points of Traditional CaaS



- The SDO CaaS Specs are lacking industry requirements
- Cloud Delivery Model changing from laaS to XaaS
 - laaS model means a fat CNF
 - Telco DevOps needs a Telco PaaS specially on Monitoring and observability
- SDK and Developer Features
 - General PaaS lacks frameworks used by CNF's vendors today
- Testing of New Features on fly
- Day2 Changes from 1months to 1week
- Evolve Telco Cloud/Adapters to General PaaS overtime by upstream

XGVELA architecture and suggestions serving Forum



Prioritizing Operator Requirements NETWORKING LEN Developer & Testing Forum



2021

- 1. Fast Development for 5G CNF and Edge CNF specially for verticals
- 2. Hybrid Network management
- 3. Telco DevOps
- Integration with Live Environment
- 5. Logging
- 6. Testing
- 7. O&M requirements tailoring specially for verticals

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No.	Scope	Requirement
1	Automaic Service Discovery	The Application can disciver the available services automatically
2	Telco DevOps	The Tools integration by XGVELA should allow realization of full Telco DevOps both
		on Infrastructure layer and covering the NF Layer
3	LCM of complete Telco Service	The LCM should cover complete life cycle from requriements till commercial service,
		ideally it sohud cover both Infra and Telco Service
		e.g Scaling should not only include spin of new PoD but also to balance traffic
		equally across all infra resources
4	Logging and observability	Logging of compelte events and real time observability is the top requirement for
		5G and Edge applications and it must be supported by XGVELA
		performanagement, logging, alarm, configuration management, tracing, etc.
5	Work Flow Management	ly integrate cloud toold but also Work flow related tools like
6	Complete Tests	te both FR and NFR requirments to both test and
7	Common HIM	Refer to White Fred by common HIM shared between NEVi and
8	EPA	on is the still the top requirement for Telco Service
		paper Draft must be available by PaaS in an API driven manner
9	API definitoons	PaaS and ETSI is required to output the API modle
		OL so that applications are developed as per PaaS
		are no rish API models and definitons supporting it
10	Cross industry integration	uket, ONAP, ETSI is required to integrate all standards tog.
11	EMS	The Telco PaaS Management capabilities should replace the EMS or add on
		managmeent capabilities as needed by the NF's.
12	Service Packaging and	The PaaS capabilities must support the Packaging of artifacts as packages that can
	onboarding	be onboarded using Cloud priniciples, The PaaS platform should be capabl to
		analyze the package, can add the addon for testing and support service onboarding.
13	Integration	The Telco PaaS must support both the SBI and NBI integration in the Telco live
		environment. The Integration shuld be flexible and should not require any
		cusotraziation
14	Hybrod Network Management	The PaaS management must govern common framework to manage both VM and
		Containers
15	Telco PaaS handshake with CNCF	XGVELA architecture Telco PaaS functionality and related adapters should be
		developed as CRD and feedback to community to cater in General Paas in
		elaborative manner through release manner
16	Integration with CNCF	Telco PaaS must be integrated with CNCF Conformacne and RI2 standards as a
	conformance	baseline for OVP badging and certification

5G Private Network



TBD

5G Private Network



Edge

