

The background of the slide is a high-resolution image of Earth as seen from space. The top half shows the blackness of space with a few stars, while the bottom half shows the curvature of the Earth with a blue atmosphere, white clouds, and green and brown landmasses.

**OLF**  
NETWORKING

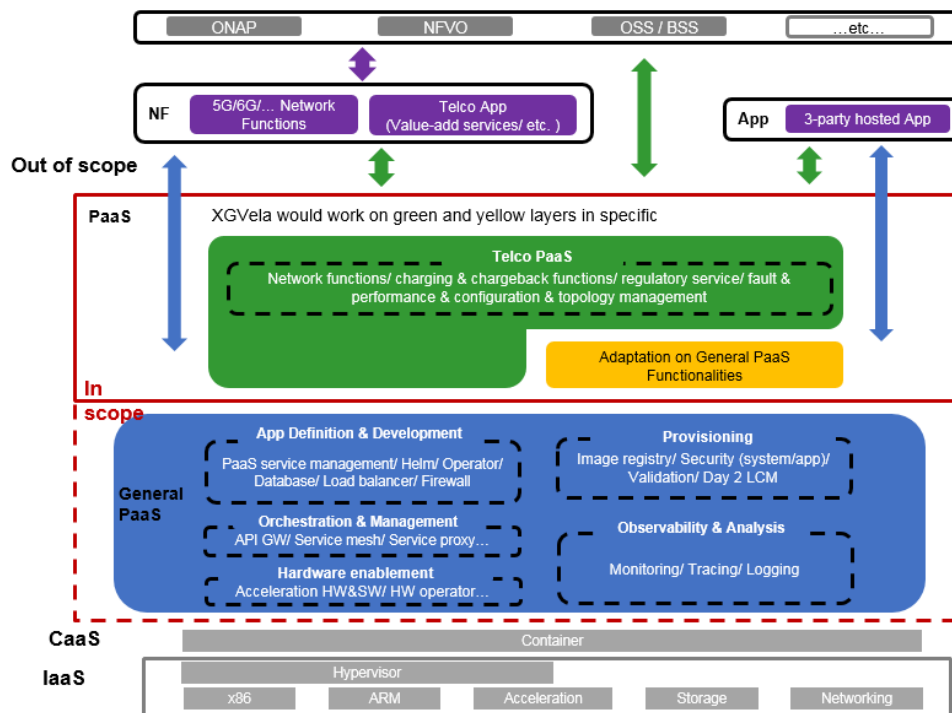
LFN Developer & Testing Forum

# **XGVela Answers to Frequently Asked Questions**

**XGVela Team**

@twitterhandle

- **Q1: Do operators really need a cloud native PaaS?**
  - Yes.
  - A platform operator wants is more than just container runtime and Kubernetes.
  - Monitoring, alarm, log, security, reusable telco functions are capabilities to be implemented through PaaS.
  - We have a session “XGVela – Operators Requirements” held by Saad Sheikh (Saudi Telecom Company)
    - Time: Tue. Feb 2, 14:30~15:00 UTC
    - Zoom link: <https://zoom.us/j/97764982900>



- **Q2: Is General PaaS included in XGVela scope?**
  - Yes & No.
  - Architecture design/ document/ tool selection will cover General PaaS.
    - General PaaS specification is necessary to define Operators' PaaS.
    - Adaptation layer and Some telco PaaS are tightly related to General PaaS.
  - Code will not cover General PaaS.

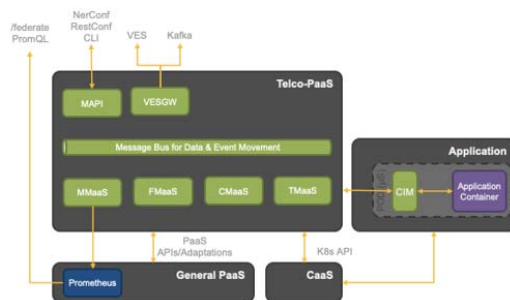
- **Q3: Is XGVela overlapped with commercial PaaS product such as Openshift?**
  - No.
  - XGVela will focus on Adaptation Layer and Telco PaaS specifically used in Telco Use cases. These two layers are generally thought has no overlap with IT-based PaaS product.
  - Mature commercial/open source PaaS product can play as foundation for XGVela, on which Adaptation layer and Telco PaaS can be integrated and run.

- **Q4: Will you generate adaptation for every General PaaS project in CNCF? How about every version of General PaaS?**
  - No.
  - XGVela will select telco-scenario-preferred General PaaS functions and specific versions, and only implement adaptations for them.
  - It is possible that XGVela upstream necessary and acceptable adaptation code back to CNCF

- **Q5: CNCF TUG is also researching on telco cloud native, what's the difference between XGVela and CNCF TUG?**
  - CNCF TUG is a document-drive group. XGVela is a code-implementation group.
  - CNCF TUG's output are basic tenets and end users' suggestions on how cloud native design and principles can be applied to mission critical telecommunication functions. These can play as reference for XGVela. However, XGVela will focus more on PaaS at implementation-level.
  - Look forward to further collaborations between these two projects.

- **Q6: Is there any plan for 2021?**
  - Release 1 is scheduled for September 2021
    - Delivery # 1: Architecture document
      - includes PaaS framework, selected General PaaS & Telco PaaS capabilities, etc.
    - Delivery # 2: Platform code
      - Code may focus on seed code and integration with commercial/open source PaaS platform. Detailed plan and features are under discussion.
  - Demo
    - A demo that can explain role of PaaS in telco scenarios as well as show the functions of seed code will be held.
    - Detailed plan and time have not been discussed yet. Welcome your joining and ideas.

## • Q7: What function does XGVela have now?



### Status

- ✓ Seed code upload to GitHub
- 🔧 Build Integration (GitHub Actions, Maven)
- Code coverage

### Key Stats

- 592 unique files
- ~57K LOC, ~8K Comments
- Primary languages - Go, Java

Following Telco-PaaS functions are seeded from Mavenir MTCIL.

- [CMaaS: Configuration Management as a Service](#)  
Provides a consistent and versioned view of configuration using Yang and NetConf. Supports Day-0, 1 and 2 configuration flows. Interfaces with k8s for configuration discovery and push.
- [TMaaS: Topology Management as a Service](#)  
Automatically discovery k8s services and builds 3GPP ManagedObjects for NFs, manages NF and μService states, supports LCM.
- [FMaaS: Fault Management as a Service](#)  
Application and platform events, TCA (via MMaaS/Prometheus), event subscriptions and ONAP VES 7.1 compliant NBI.
- [VESGW: ONAP VES Gateway](#)  
Built on ONAP/VESPA project with enhancement to support multi NF streams.
- [CIM: CNF Interface Module](#)  
A sidecar that provides a local integration point API for applications.
- [Helm based packaging framework](#)
- *Metrics Management as a Service (MMaaS) - In Progress*  
*Uses Prometheus (in General PaaS) for metrics collection. Implements the control plane for configuring Prometheus for NF service discovery, KPIs and TCA.*

To get more details about see code: Sandeep Karkala (Mavenir) will hold “XGVela seed code design walk through” session

Time: Wed. Feb 3 at 13:30~14:00 UTC

Zoom Link: <https://zoom.us/j/98704152878>



- **Q8: Is XGVela overlapped with ONAP?**
  - No and Yes.
  - If XGVela is used to support deployment and running of network functions, no overlap exist. XGVela provide necessary PaaS functionalities required by network functions. The orchestration is still done by ONAP.
  - If XGVela is used to support deployment and running of ONAP, overlap may exist.
  - XGVela team will hold a demo to clarify the relationship with ONAP.

- **Q9: What is the infrastructure plan of XGVela?**
  - XGVela uses no custom infrastructure.
  - Modern LFX tooling platform and shared Confluence and Jira instances under LF Networking.
  - Code/Image repository, workflow, code review => GitHub
  - CI/CD plan:
    - For short term, which is from now on to march this year, our goal is to provide the XGVela users an immediate means to play with the XGVela initial code and images. Multi-tenant env will be built to support multiple users at any given point of time.
    - For long term, we would use the LFN end to end devops tooling
  - We have a session “XGVela Infrastructure Tooling and Plans” held by Seshu Kumar (Huawei) to give details
    - Time: Tue. Feb 2, 13:30~14:00 UTC
    - Zoom link: <https://zoom.us/j/96209735257>

- **Q10: How to join XGVela?**

- Anyone who is interested in XGVela can join.
- Contributions are accepted in any form: code, document, use cases, requirements, demo participate, cross-community collaboration .....
- To start a project in XGVela:
  - Please apply directly to XGVela tsc through mailing list [xgvela-tsc@lists.xgvela.org](mailto:xgvela-tsc@lists.xgvela.org)
  - Remember to clarify project goals, purpose, scope, project functionality and major usage scenarios, project relationship with General PaaS/Adaptation Layer/ Telco PaaS, relationship with other projects  
...
  - Management procedures: <https://github.com/XGVela/XGVela/wiki/Project-Operations-and-Procedures>



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