



LFN Developer & Testing Forum

XGVELA

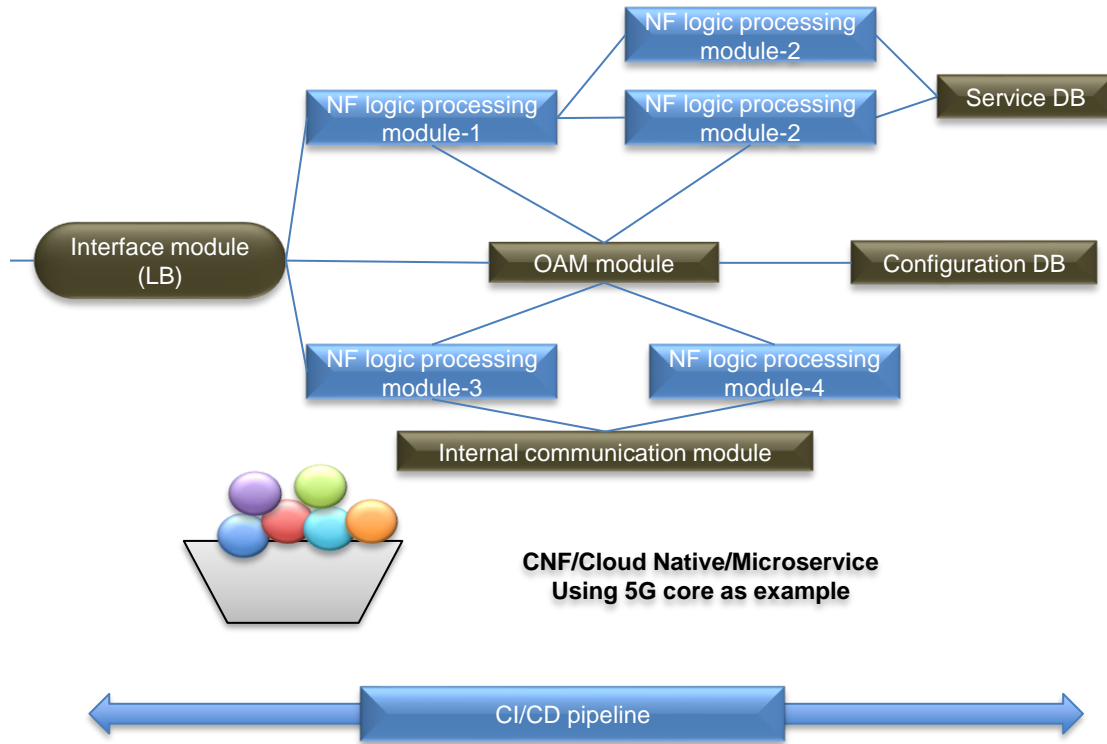
Update & Ask Me Anything

XGVela TSC

Update – Cross Community Collaboration

- Anuket & XGVela has created a survey about General PaaS.
- Survey background:
 - Workload + cloud infrastructure model hampers operators' business agility by the lack of a “platform” service.
 - General PaaS on cloud, which is the “platform” services, can provide telco services with simplified and agile applications development and enable smooth delivery to production
- Survey objective:
 - Identify and prioritize the categories and the set of Platform Services that should be provided by the General PaaS
 - Selection of PaaS software tools, products and services helps future integration.
- Where to find: <https://wiki.anuket.io/display/HOME/Draft+Pared+Down+---+LFN+PaaS+Survey>
- Detailed introduction:
 - Session: Plenary: EUAG Community Meeting & PaaS Survey
 - Mon., June 7th 2021, 12:30~13:30 UTC
 - <https://wiki.lfnetworking.org/x/gYJXAw>

Update – Discussion – Use Case

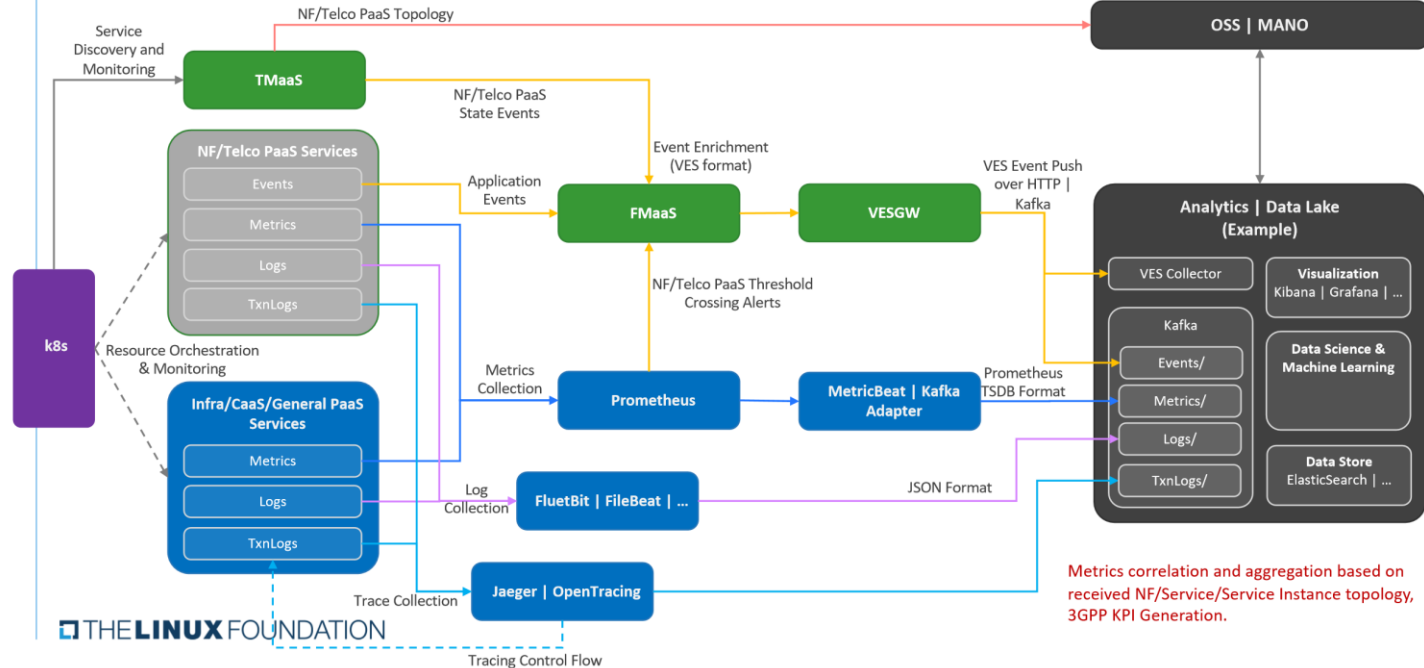


- After deep investigation of cloud native NF, 5G core has been chosen as one of the use case for release 1.
- Reusable modules derived from this use case, which can be put onto PaaS, are LB, DB, service mesh, observability functions.
- CI/CD pipeline is another important topic for xgvla, which is provided by PaaS and can accelerate delivery speed.
- Detailed introduction:
 - Session: XGVela – Use Case Discussion
 - Wed., June 9 2021, 12:30~13:30 UTC
 - <https://zoom.us/j/93279175137>

Update – Discussion – Observability Framework

- XGVela seedcode provided by Mavenir is about telco management functionalities, in which observability is required by 5G core use case.
- Observability framework created by Mavenir seedcode has been introduced.
- Material link: <https://wiki.lfnetworking.org/display/XGVela/Observability+Framework>

Observability Framework



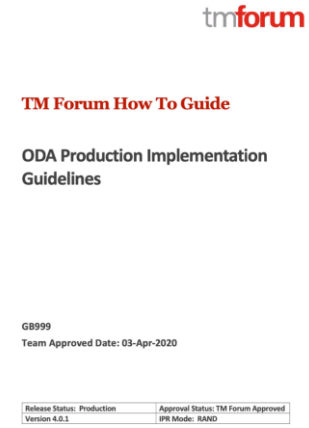
Telco Observability Framework Requirements:

- Alarms/events, Metrics, logs shall contain NF/Service/Service Instance/slice identifiers
- Logging mechanism shall support ASCII, Binary and Crash file reliable log/crash file delivery
- 3GP subscriber Tracing and Transaction log (Jaeger does not need Telco requirements for Tracing) flows are not identified here for simplicity. Need to review and consider these functions in XGVela Telco PaaS.

Metrics correlation and aggregation based on received NF/Service/Service Instance topology, 3GPP KPI Generation.

Update – Discussion – Network Management Landscape

- XGVela's roles in network management landscape has been analyzed within this discussion.
- Three standards are used as reference. For management functionalities listed in each standard, XGVela is given the role of consumer or provider.
- Material link: <https://wiki.lfnetworking.org/display/XGVela/Network+Management+Landscape>



Questions received recently

- **Is this the first PaaS for the telco industry and if it's not what makes XGVela so special?**
 - No. PaaS has been existing and widely used for a long time within telco industry, especially in development process on vendor side. But it's the first open source PaaS targeting on telco requirements.
- **Don't you support any technology below 5G?**
 - Yes. XGVela PaaS serves all cloud-native NFs.
- **What are mostly concerned PaaS capabilities in network cloud which evolving towards cloud native?**
 - DevOps, microservice management, observability, LB, etc.
- **Who is the user of XGVela PaaS? Operator, vendor or vertical-industry customer?**
 - It depends. CI/CD/CT capabilities could be used by both operator & vendor. Common reusable NF microservices (such as LB, service mesh, observability) could be used by NF developers from vendor & operator. Private 5G core can also be provide as PaaS service to vertical-industry customer.
- **Percentage of reliability and low latency going to be covered by XGVela?**
 - This question has not be detailly discussed within XGVela yet.
 - A doc related to high availability: <https://drive.google.com/file/d/1IvcMtxbGXmqjwCvmsnKRi-PR30nbUpwo/view?usp=sharing>
- **What measures have been taken to ensure the security of data?**
 - This question has not be discussed within XGVela yet.



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