Telco Global API Alliance - Kick Off

08.07.2021

Agenda

Who is on the call today?

…and short term welcome to Apple, NGMN and Telus

A global partnership could address much of the challenges in scaling API services across heterogenous operator architectures.

The development of open, global, and interoperable API solutions could benefit customers and developer ecosystems by giving access to operator capabilities in whatever network customers are in and therefore allow applications to run consistently between telco networks and countries. A new form of collaboration between various players (telcos, ISVs, device manufacturers, hyperscalers, etc.) could address much of the challenges in scaling API services across heterogenous operator architectures as well as advance the connectivity industry towards a more robust and faster core network, encourage the faster adoption of capabilities and as a result create value for the entire tech industry.

1. Accelerate technology development

- Build sustainable ecosystems around collaborative projects across industries.

- Drive industry alignment by facilitating industry discussions with telcos, ISVs, device manufacturers, hyperscalers, etc.

2. Standardization of APIs

- Standardize and convert APIs to a user understandable format called "Service APIs".

- Achieve standardization through working code vs. documents.

- Implementation experience should guide standardization process.

- Enable interoperability (e.g. effortless portability of applications between different operators), compatibility (applicability to different network technologies) and interconnectivity (to enable interoperator collaboration).
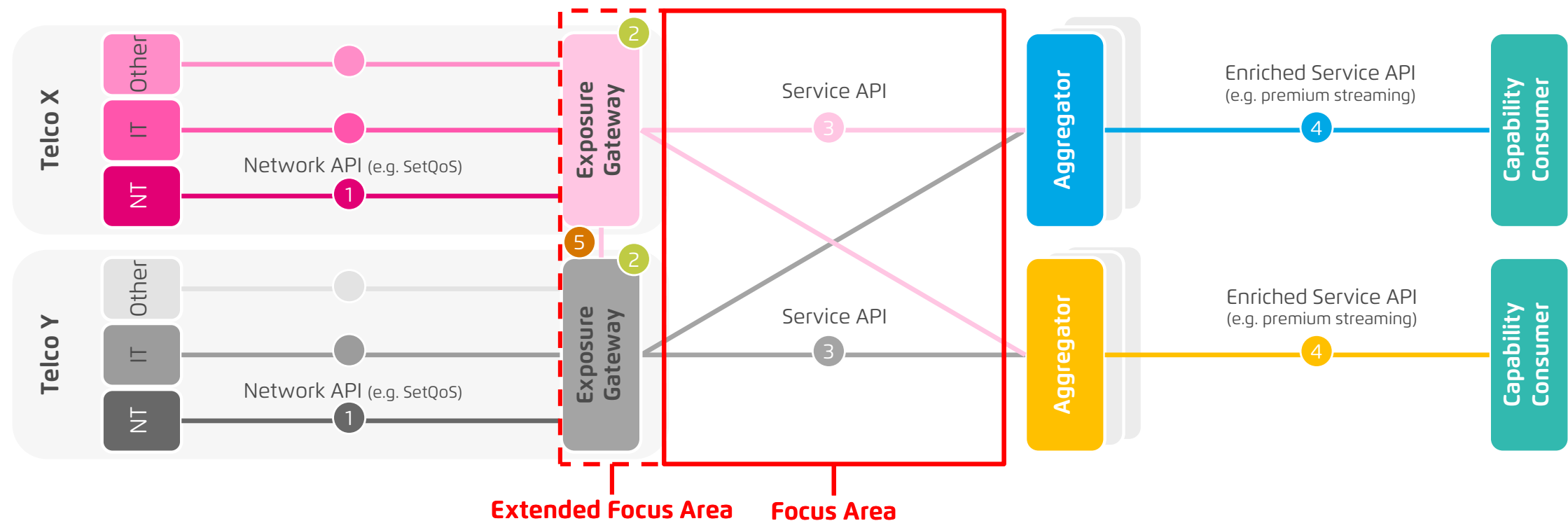
3. Education and promotion

- Actively promote Service APIs via various forums, events, conferences, training programs, ecosystems and social media.

- Promote best practices by aggregating and publishing lessons learned.

4. Accelerate commercial adoption

- Create awareness around use cases and services.

- Minimize implementation effort though easy-to-consume standard Service APIs.

- Foster the development of distribution channels to increase customer reach.

- Integrate the APIs in relevant developer's environments and ecosystems.
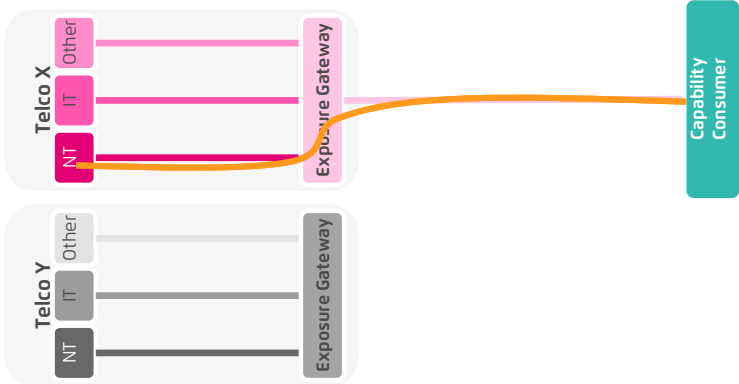
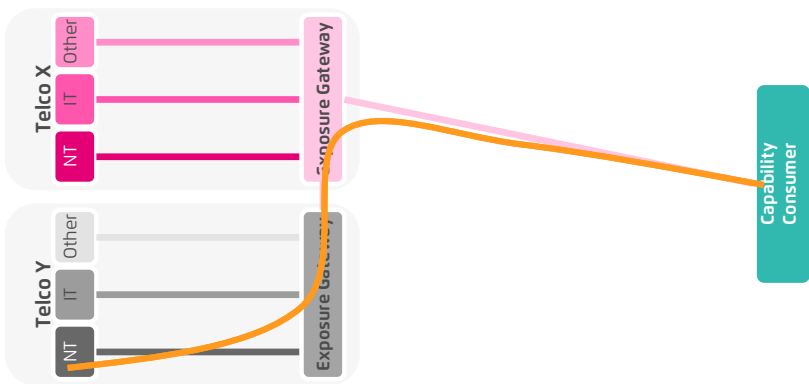- Provide customer service and support.

API architecture

1 Capabilities
Exposable via Network APIs e.g. slicing, positioning, managed QoS, IDM etc.

2 Exposure
Abstraction of internal API to Service APIs. Common means of access across all operators

3 Service APIs
Service APIs incl. also access control, billing, cross-operator federation etc.

4 Technical Aggregation (optional)
Enrichment of Service APIs e.g. cloud or platform providers etc.

5 Interoperability
e.g. API roaming, etc.
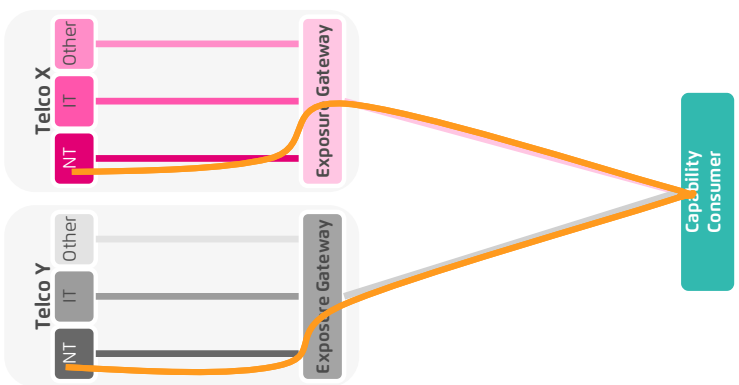
API distribution options
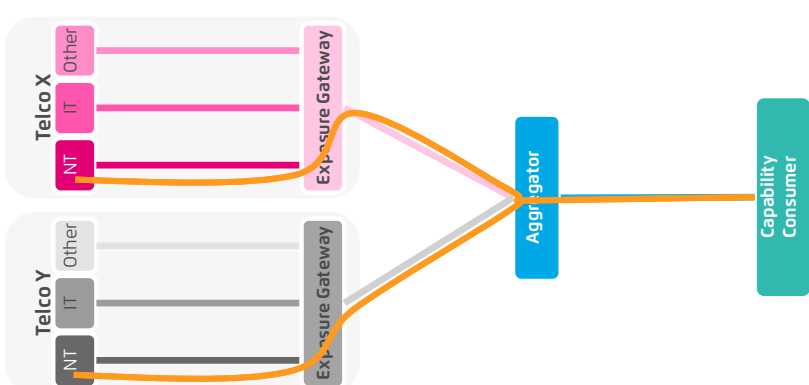
A. Single-Operator Relationship
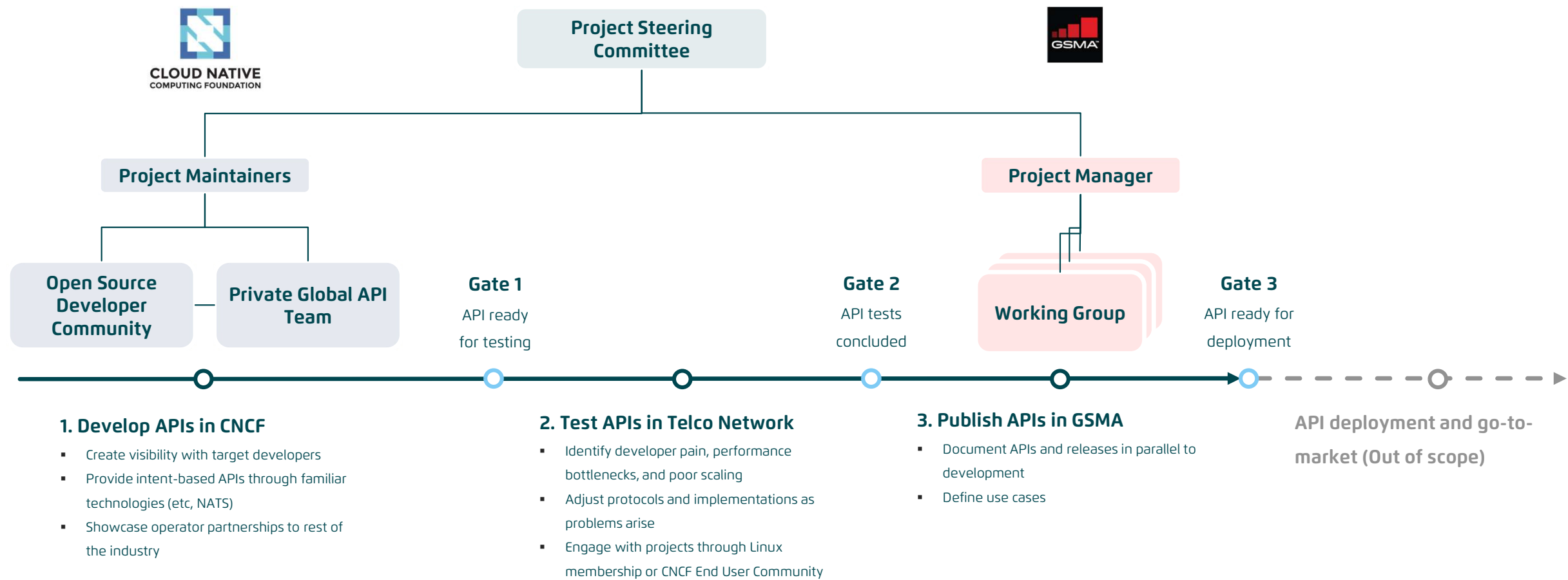

B. Single-Operator "API Roaming"

C. Multi-Operator Relationship

D. Operator Aggregation

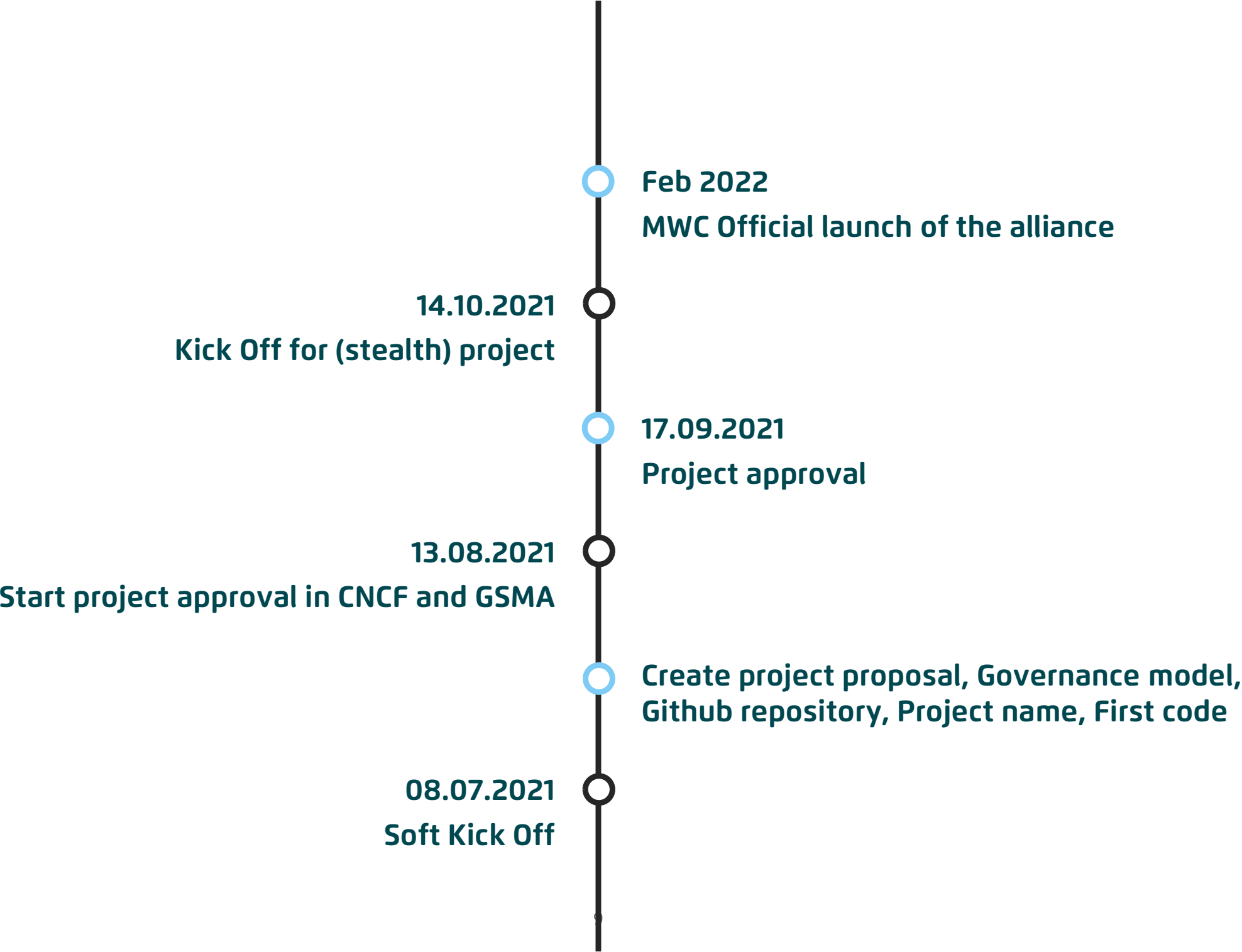# A hybrid approach (GSMA + CNCF) might be a reasonable solution.

CLOUD NATIVE COMPUTING FOUNDATION

Project Steering Committee

GSMA

Project Maintainers

Project Manager

| **Open Source Developer Community** | **Private Global API Team** |

Gate 1
API ready for testing

Gate 2
API tests concluded

Working Group

Gate 3
API ready for deployment

1. Develop APIs in CNCF
- Create visibility with target developers
- Provide intent-based APIs through familiar technologies (etc, NATS)
- Showcase operator partnerships to rest of the industry

2. Test APIs in Telco Network
- Identify developer pain, performance bottlenecks, and poor scaling
- Adjust protocols and implementations as problems arise
- Engage with projects through Linux membership or CNCF End User Community

3. Publish APIs in GSMA
- Document APIs and releases in parallel to development
- Define use cases

API deployment and go-to-market (Out of scope)

Q&A

Timeline

Feb 2022
MWC Official launch of the alliance

14.10.2021
Kick Off for (stealth) project

17.09.2021
Project approval

13.08.2021
Start project approval in CNCF and GSMA

Create project proposal, Governance model,
Github repository, Project name, First code

08.07.2021
Soft Kick Off

DT has created a private Github repository to kick off the project.

MarkusKuemmerle Add files via upload ...   89b2a46   2 minutes ago   ⏱ **51 commits**

📁 APIs/QualityOfDemand	Create Specification.md		2 hours ago
📁 declarations	Update file-header.txt		yesterday
📁 documentation	Delete Telco Global API Alliance Community Guidelines.pdf		3 minutes ago
📄 4-THE-REPO-OWNER.md	add initial version of compliance / health documents		9 days ago
📄 CODEOWNERS	Update CODEOWNERS		4 hours ago
📄 CODE_OF_CONDUCT.md	add initial version of compliance / health documents		9 days ago
📄 CONTRIBUTING.md	Update CONTRIBUTING.md		2 hours ago
📄 GOVERNANCE.md	Add file		
📄 NOTICE	Update		
📄 PARTICIPANTS.MD	Create		
📄 README.md	Update		

Add your name to the repository "Telco Global API Alliance" to start contributing to the alliance.

6 lines (5 sloc)   299 Bytes

Org	Name
Deutsche Telekom AG	Nathan Rader
Deutsche Telekom AG	Markus Kümmerle
Deutsche Telekom AG	Shilpa Padgaonkar

First name suggestions for the project

Make a proposal for a suitable name in the next call!

NEXALL

NEX-O

Acronym for "Network Exposure Alliance".

Suggested by **Telefónica**

Camara

(alt. Kamara)

Greek word for "arched roof", which represents the collaboration or alliance of several entities under one vision. The logo could be an arch or an arched roof.

Suggested by **T··**

First tasks

Review the documents and provide feedback:

- Correct typos and bad grammar immediately in the files
- In case of needed content changes create a GitHub issue

Agree on meeting sequence

We start bi-weekly at Thu 5pm-6pm CEST (dates marked red below).

If it make sense we decide to switch to a weekly mode.

Topics for next meeting

- List of initial participants already registered

- Practical arrangement of meetings

- Name of the alliance

- Status of documents, esp. GOVERNANCE.MD and project proposals

- Open points / questions

- First ideas for API contributions

AOB