CAMARA
THE TELCO GLOBAL API ALLIANCE

# APIs enabling seamless access to network capabilities

## What is the CAMARA Project?

CAMARA is an open source project within the Linux Foundation focused on defining, developing, and testing telco northbound APIs, specifically Service and Service Management APIs. By providing standardized, developer-friendly interfaces, CAMARA enables broad and consistent adoption across operators and geographies. The project works in close collaboration with the GSMA Operator Platform Group to align API requirements and publish API definitions. Harmonization of APIs is achieved through fast and agile created working code with developer-friendly documentation. API definitions and reference implementations are free to use (Apache2.0 license).

The GSMA's Open Gateway complements CAMARA by 'standardizing' the exposure layer across operators. In collaboration with TM Forum, it also defines the Operate APIs that enable integration between operators and aggregators. Additionally, it provides frameworks for business models and templates, although these are outside the scope of CAMARA itself.

**Launched in 2022 with 22 partners, CAMARA has rapidly expanded to include**

- over 1,300 contributors
- from nearly 500 organizations
- 60+ stable APIs

## What is the CAMARA Project solving?

Telco network capabilities, especially in 5G, are powerful: Examples are Number Verification or SIM Swap for fraud prevention, location services for logistics use cases, or Quality on Demand for remote control or transaction safeguarding. But the raw capabilities are often too complex and fragmented for broad developer adoption. CAMARA helps solve this by transforming those capabilities into open, standardized Service APIs that hide underlying telco complexity and make network functions easier to access, understand, and use.

For telco APIs to scale, they must be:

- clearly defined and standardized
- available across networks and countries
- simple to use, with abstractions that hide telco-specific complexity
- definitions free and easy to access
- aligned with real customer and developer demand

## Why does this matter?

By abstracting complex network capabilities into developer-friendly Service APIs, CAMARA makes it easier for application developers to consume telco capabilities without needing deep telecom expertise. This helps simplify application-to-network integration while also supporting privacy, security, and regulatory requirements.

Broad availability across operators and markets is also essential to:

- ensure a seamless customer experience
- accelerate technology development and commercial adoption
- reduce implementation effort
- simplify education and promotion
- support application portability across networks and geographies

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