



CAMARA

THE TELCO GLOBAL API ALLIANCE

WEBINAR

From Code to Connectivity: CAMARA's Fall25 Release

10.09.2025

Meet the Panelists



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Tanja de Groot

Open API Chief Architect, Nokia
CAMARA Board Member



Herbert Damker

Lead Architect, Deutsche Telekom
CAMARA TSC Chair & Board Member



Johanna Wood

Director Network API Portfolio,
Vodafone & CAMARA Board Member

Agenda



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1. Introduction / Overview
2. Meet the Fall25 Meta-Release
3. Overview of Stable, Updated & New APIs
4. Celebrating our Contributors
5. Open Q&A

APIs enabling seamless access to Telco network capabilities



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Telco network capabilities exposed through APIs provide a large benefit for customers. By simplifying telco network complexity with APIs and making the APIs available across telco networks and countries, CAMARA enables easy and seamless access.



CAMARA Mission

What is the CAMARA Project?

Key problems we try to solve



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Scale

Developers dream of being the next unicorn...
If apps, products, or services are built on our APIs they want them in all relevant markets and networks globally.



Consistency

Multi-nationals want consistency across all markets they operate in... they do not want APIs that only work in a single network in a single country. They do not want to try and build for the differences of each network.



Simplicity

Telco networks are complex, and every network is different....
Developers want simple, intent-based APIs.



Accessibility

We go to the developers where they are so the project is open sourced in the Linux Foundation. Allowing API users to work directly with CSPs creating the service.



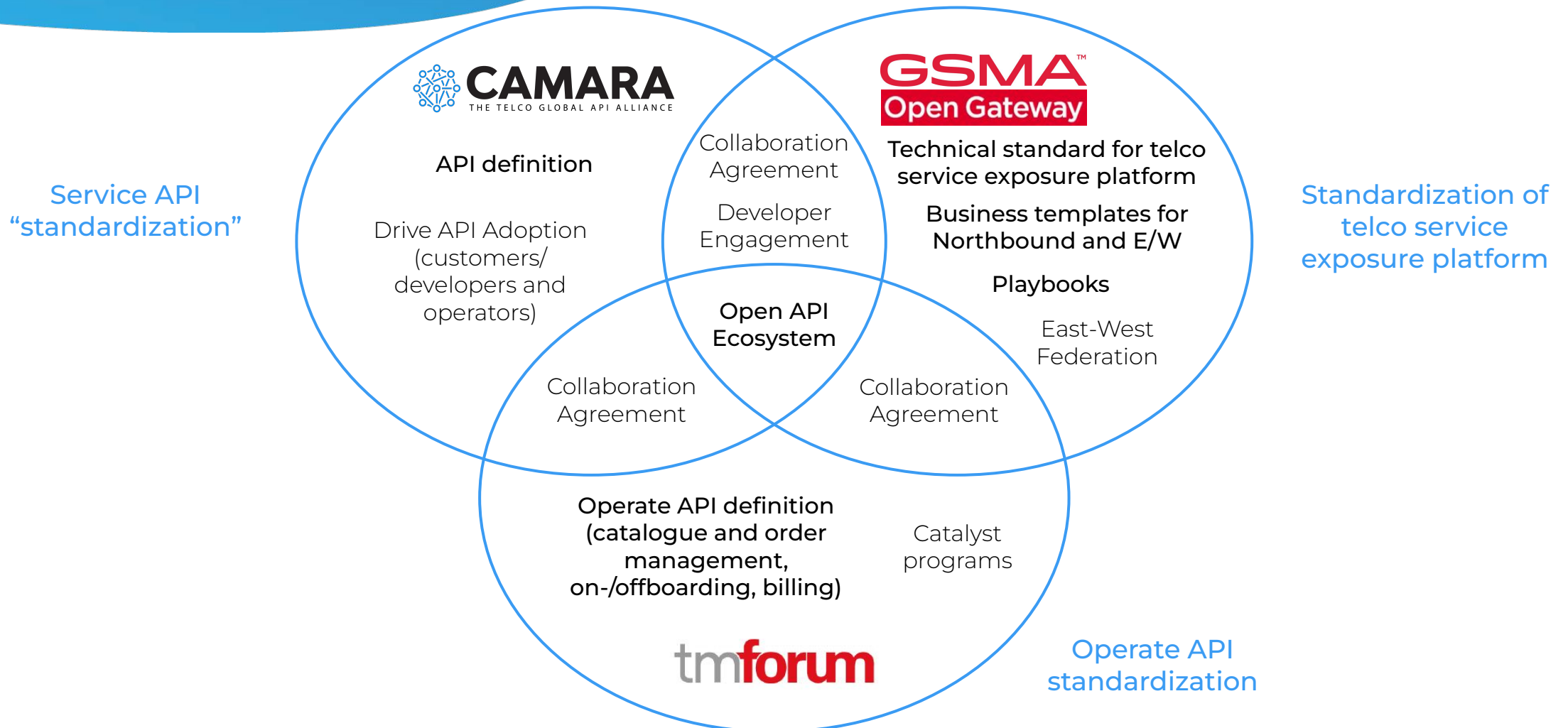
Demand Driven

We develop the APIs and design it in the way our customers need it. The demand is collected from organizations like GSMA OPAG but also from customers directly.

CAMARA – Scope / Collaboration with Open Gateway and TM Forum



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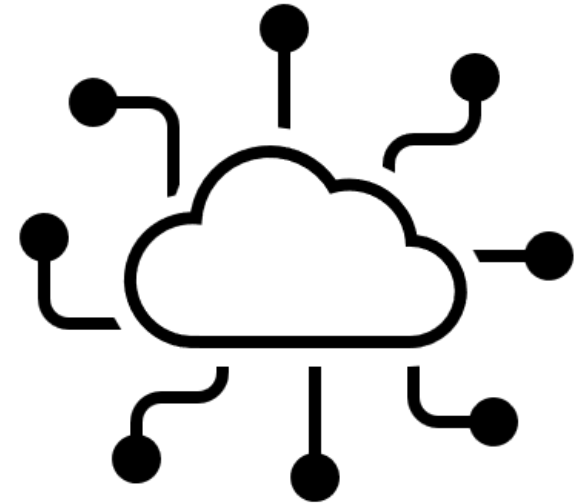
The scope of the CAMARA Project is:

- **Collect API requirements** from GSMA Operator Platform Group and other sources
- **Define Service APIs and Service Management APIs**
- Create test plans / cases / tools from an API consumer perspective
- **Develop and test Service APIs and Service Management APIs**
- Create developer friendly **documentation**

The following deliverables are provided by the CAMARA Project:

- **Service API and Service Management API definitions and documentation**
- Optionally Service API and Service Management API code and
- Test plans, cases and tools for the APIs all contained in deployment packages.

Project resources can be found in the **GitHub repository**: <https://github.com/camaraproject>.



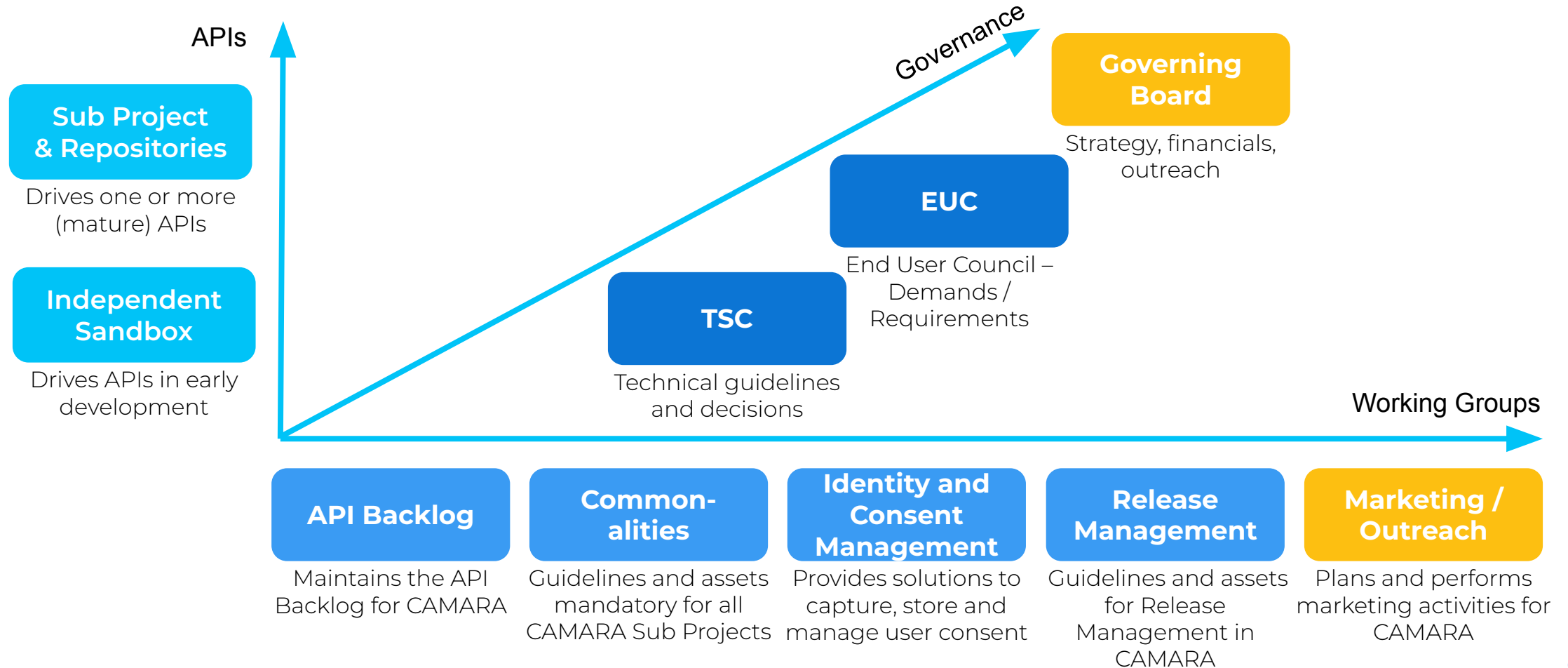


Meet the Fall25 Meta-Release

How CAMARA Works



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What are meta-releases ?



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A **CAMARA meta-release** contains

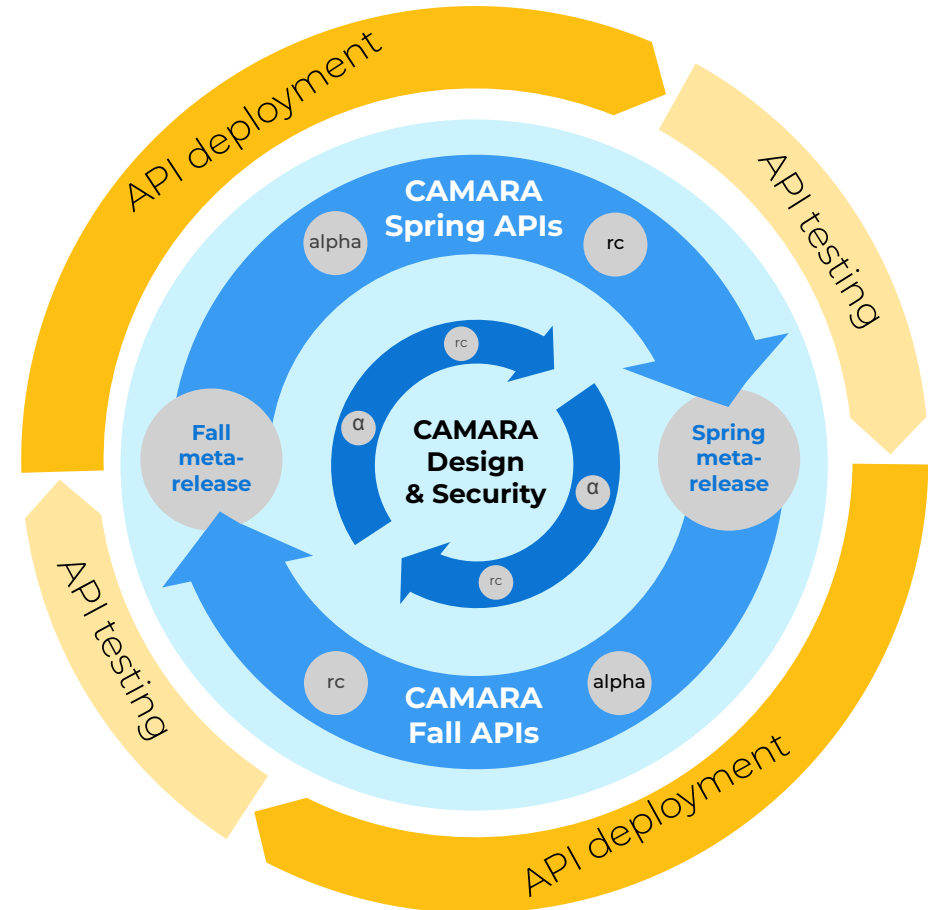
- A set of released CAMARA API versions
- Common design and security guidelines

A **CAMARA meta-release** sets the schedule for

- implementations by API providers
- integration by API consuming applications

A **CAMARA meta-release** ensures

- API consistency
- API quality
- API stability
- reliable API delivery
- feedback integration



For details see: <https://wiki.camaraproject.org/display/CAM/Meta-release+Process>

CAMARA APIs development & versioning



SemVer 2.0

Guidelines

- Commonalities
- Identity and Consent Management (ICM)

Sub Projects

- may manage multiple API repositories
- develop one or more APIs per API repository

API repositories

- the base of API releases
- three stages of maturity:
 - Sandbox
 - Incubating
 - Graduated

API versions

- two types of public released API versions
 - Initial (v0.y.z)
 - Stable ($\geq$ v1.0.0)
- (pre-)releases successively
 - alpha
 - release-candidate

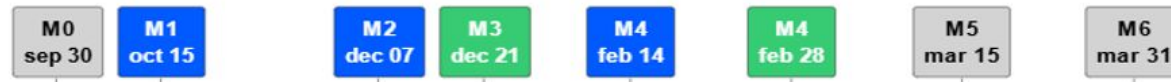
**API version is independent of
API (repository) release number**

Meta-release & API release Processes



Meta-release process

- Sets the milestones M0 through M6 and associated activities



- Defines criteria for stable and initial API versions
- Provides the checklist for each API version release

API release process defines

- API versioning during API lifecycle
- repository release

Details on the CAMARA wiki.

Meta-releases

- Fall25 meta-release ☐
- Spring25 meta-release ☐
- Fall24 meta-release ☐
- Spring26 meta-release

API Readiness Checklist

Checklist for api-name api-version in x.y.

Nr	API release assets	alpha	release-candidate	initial public	stable public	Status	Reference information
1	API definition	M	M	M	M		relative link
2	Design guidelines from Commonalities applied	O	M	M	M		Comm. release nr
3	Guidelines from ICM applied	O	M	M	M		ICM release nr
4	API versioning convention applied	M	M	M	M		
5	API documentation	M	M	M	M		in yaml (or relative link)
6	User stories	O	O	O	M		relative link
7	Basic API test cases & documentation	O	M	M	M		relative link
8	Enhanced API test cases & documentation	O	O	O	M		relative link
9	Test result statement	O	O	O	M		issue link
10	API release numbering convention applied	M	M	M	M		
11	Change log updated	M	M	M	M		relative link
12	Previous public release was certified	O	O	O	M		comment
13	API description (for marketing)	O	O	M	M		wiki link

Fall25 Commonalities and ICM



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CAMARA API Design Guide

This document outlines guidelines for API design within the CAMARA project, applicable to all APIs developed under the initiative.

- [1. Introduction](#)
 - [1.1. Conventions](#)
 - [1.2. Common Vocabulary and Acronyms](#)
- [2. Data](#)
 - [2.1. Common Data Types](#)
 - [2.2. Data Definitions](#)
- [3. Error Responses](#)
 - [3.1. Standardized Use of CAMARA Error Responses](#)
 - [3.2. Error Responses - Device Object](#)
 - [3.3. Error Responses - Mandatory Termination](#)
- [4. Pagination, Sorting and Filtering](#)
 - [4.1. Pagination](#)

Updated

CAMARA API Event Subscription and Notification Guide

This document outlines specific guidelines for API design within the CAMARA project, applicable to all APIs that provide capabilities for event subscription and notification management.

For general API design guidelines, please refer to [CAMARA API Design Guide](#).

- [1. Introduction](#)
 - [1.1. Conventions](#)
 - [1.2. Common requirements](#)
- [2. Event Subscription](#)
 - [2.1. Instance-based \(Implicit\) Subscription](#)
 - [2.2. Resource-based \(Explicit\) Subscription](#)
 - [2.3. Event Versioning](#)
- [3. Event Notification](#)
 - [3.1. Event Notification Definition](#)
 - [3.2. subscription-started Event](#)

New

CAMARA Security and Interoperability Profile

Table of Contents

- [Introduction](#)
- [Audience](#)
- [Conventions](#)
- [General Considerations](#)
 - [Transport Security](#)
 - [Sender-Constrained Tokens](#)
- [OIDC Authorization Code Flow](#)
 - [Signed Authentication Requests](#)
 - [Optional](#)
 - [Cross](#)
- [Client-Initiated](#)
 - [Optional](#)

- Authorization code flow
- CIBA flow (Backend flow)
- Client Credentials
- [JWT Bearer Flow](#)

RFC 9700 for
OAuth 2.0 Security

CAMARA APIs Access and User Consent Management

This document defines guidelines for API Providers to manage CAMARA API access and when applicable, User Consent.

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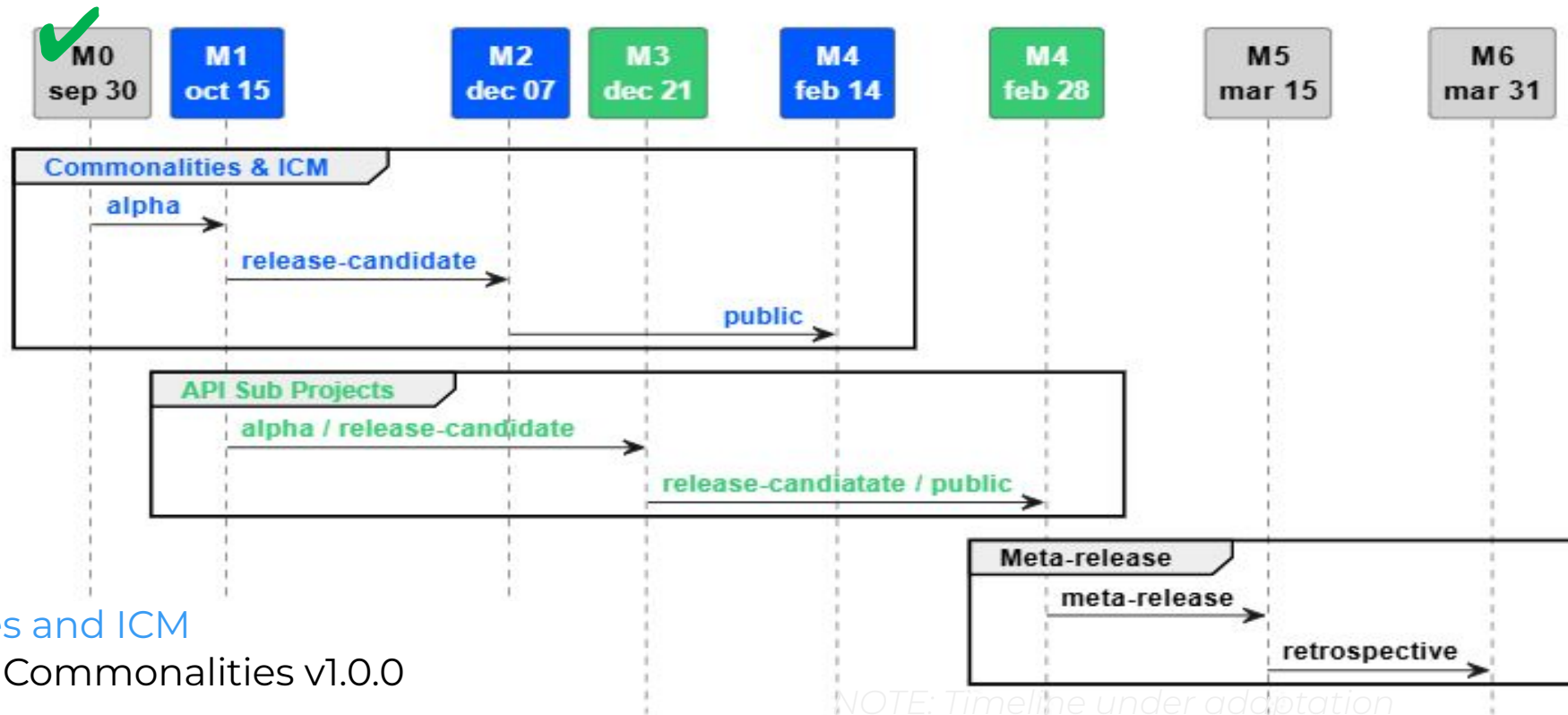
- [Introduction](#)
- [Glossary of Terms and Concepts](#)
- [Purpose within CAMARA](#)
 - [Using Purpose within the authorization request](#)
- [User Authentication/Authorization & Consent Management](#)
 - [Authorization flows / grant types](#)
 - [Authorization Code Flow \(Frontend Flow\)](#)
 - [Technical ruleset for the Frontend flow](#)
 - [CIBA flow \(Backend flow\)](#)
 - [Technical ruleset for the Backend flow](#)
 - [CIBA flow with Operator Token](#)
 - [Client Credentials](#)
 - [JWT Bearer Flow](#)

ConsentInfo API

Spring26 meta-release Schedule



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Commonalities and ICM

- targeting Commonalities v1.0.0

Fall25 Meta-release APIs

CAMARA Fall25 Meta-release

API Overview



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STABLE APIs

- device-reachability-status
- device-roaming-status
- device-swap
- location-verification
- number-verification
- one-time-password-sms
- qos-profiles
- quality-on-demand
- sim-swap
- simple-edge-discovery

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NEW INITIAL APIs (v0.y.z)

- application-endpoint-discovery
- application-endpoint-registration
- blockchain-public-address-validation
- brand-registration
- consent-info
- dedicated-network
- dedicated-network-accesses
- dedicated-network-profiles
- device-data-volume
- device-data-volume-subscriptions
- energy-footprint-notification
- knowledge-base
- most-frequent-location
- network-slice-booking
- optimal-edge-discovery
- predictive-connectivity-data
- qa-assistant-manage
- qa-assistant-service
- qos-booking
- qos-booking-and-assignment
- subscription-status
- traffic-influence
- verified-caller

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SPRING25 UPDATED INITIAL APIs (v0.y.z)

- application-profiles
- blockchain-public-address
- call-forwarding-signal
- carrier-billing
- carrier-billing-refund
- connected-network-type
- connected-network-type-subscriptions
- connectivity-insights
- connectivity-insights-subscriptions
- customer-insights
- device-identifier
- device-reachability-status-subscriptions
- device-roaming-status-subscriptions
- geofencing-subscriptions
- kyc-age-verification
- kyc-fill-in
- kyc-match
- kyc-tenure
- location-retrieval
- number-recycling
- population-density-data
- qos-provisioning
- region-device-count
- sim-swap-subscriptions
- webrtc-call-handling
- webrtc-events
- webrtc-registration

Getting Started with CAMARA APIs



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THE **LINUX** FOUNDATION PROJECTS

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Latest News: CAMARA Spring25 meta-release announced on LinuxFoundation KubeCon

APIs enabling seamless access Telco network capabilities

Telco network capabilities exposed through APIs provide a large benefit for customers. By simplifying telco network complexity with APIs and making the APIs available across telco networks and countries, CAMARA enables easy and seamless access.

- Authentication and Fraud Prevention
- Location Services
- Communication Services
- Communication Quality
- Device Information
- Computing Services
- Payments and Charging
- Service Management
- Call Forwarding Signal
- Customer Insights
- Device Swap
- Know Your Customer Age Verification
- Know Your Customer Fill In
- Know Your Customer Match
- Know Your Customer Tenure
- Number Recycling
- Number Verification
- One Time Password SMS
- Sim Swap
- Sim Swap Subscriptions
- Verified Caller

- CAMARA project website:
<https://camaraproject.org/>
- CAMARA on GitHub:
<https://github.com/camaraproject/>

CAMARA API Overview



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Authentication and Fraud Prevention	Location Services	Communication Services	Communication Quality	Device Information	Computing Services	Payments and Charging	Service Management
Call Forwarding Signal	Geofencing Subscriptions	WebRTC Call Handling	Application Profiles	Connected Network Type	Simple Edge Discovery	Blockchain Public Address	
Customer Insights	Location Retrieval	WebRTC Event Subscription	Connectivity Insights	Connected Network Type Subscriptions		Carrier Billing	
Device Swap	Location Verification	WebRTC Registration	Connectivity Insights Subscriptions	Device Identifier		Carrier Billing Refund	
Know Your Customer Age Verification	Population Density Data		Home Devices QoD	Device Reachability Status			
Know Your Customer Fill In	Region Device Count		QoD Provisioning	Device Reachability Status Subscriptions			
Know Your Customer Match			QoS Profiles	Device Roaming Status			
Know Your Customer Tenure			Quality on Demand	Device Roaming Status Subscriptions			

- <https://camaraproject.org/api-overview/>
- Mature APIs: Stable & updated API versions
- APIs in earlier development: first initial API versions or APIs still in progress

API Descriptions



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API Description

The "Sim Swap" API is a service that monitors and detects changes in the SIM card associated with a mobile number. It provides businesses with insights into whether a SIM card has been swapped recently, either by returning a timestamp of the last change or a yes/no response for a defined period (e.g., the last 24 hours). Additionally, the API offers a subscription mode, enabling businesses to receive real-time notifications whenever there is a change in the SIM card status. This service is particularly valuable for enhancing security in scenarios like fraud prevention, account protection, and transaction validation by identifying potential unauthorized SIM swaps.



Use Cases

- **Fraud prevention in banking:** A bank may query the API when a transaction appears suspicious. The SIM swap information feeds into the bank risk decision engine and security measures are applied accordingly by the bank. Also, strange behaviors or accumulation of SIM Swap notifications may help banks detect fraud scenarios in advance.
- **Fraud prevention for password reset (various sectors: e-commerce, social networks, etc.):** Password reset is often protected via a mobile verification e.g. One Time Password SMS. The online service provider may query the Sim Swap API to secure the mobile verification. A recent SIM swap may indicate a risk of account takeover fraud and the service provider can adapt the security measures accordingly.

Benefits

- **Prevention of Fraudulent Activities:** The Sim Swap API helps businesses detect and prevent unauthorized SIM swap attempts, a common method used in account takeover fraud. By identifying changes in a user's SIM card status, the API provides an additional layer of security for sensitive transactions and account access.
- **Enhanced Security for User Accounts:** This service ensures that only legitimate users can access their accounts or authorize transactions by verifying that the mobile line has not

API Portfolio: Authentication and Fraud Prevention

■ SubProject Wiki: [Number Insights](#) (incl. how to meet the team)

■ API Wiki: [Sim Swap](#)

🔗 API Repository: [Sim Swap](#)

API Repository Status: **Incubating**

API Status: **Stable**

≡ API Version(s) and Release Date(s):

- **v0.4.0** (14.11.2023)
- **v1.0.0** (04.04.2025), Fall24 meta-release, patch release
- **v2.0.0** (13.03.2025), Spring25 meta-release
- **v2.1.0** (17.09.2025), Fall25 meta-release

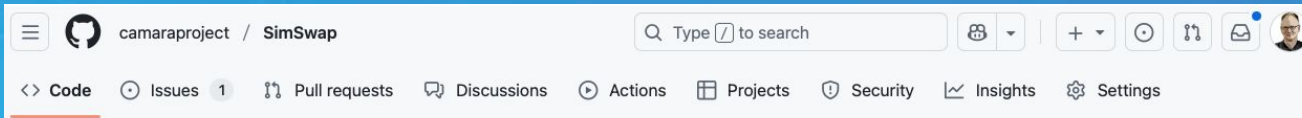
API availability: Information which APIs are available in which country and network, and how to get access can be found on the [GSMA public launch status page](#).

- API Description
- Use Cases
- Benefits
- Links to
 - Sub Project (w/ contacts)
 - API Wiki
 - API repository
 - API version(s)
 - GSMA public launch status

Releases



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Releases / r3.2

r3.2 Latest Compare

 fernandopradoabrillo released this 3 weeks ago r3.2 6105d77

Release Notes

This release contains the definition and documentation of

- sim-swap 2.1.0
- sim-swap-subscriptions 0.3.0

The API definition(s) are based on

- Commonalities v0.6.0
- Identity and Consent Management v0.4.0

sim-swap 2.1.0

sim-swap v2.1.0 is the public release of the Sim Swap API

- API definition with inline documentation:
 - [View it on ReDoc](#)
 - [View it on Swagger Editor](#)
 - [OpenAPI YAML spec file](#)

Added

- Add a documentation note when regulations prevent less than 100 days for check by [@bigludo7](#) in [#213](#)
- Documented Error Responses info.description section by [@bigludo7](#) in [#221](#)
- Include new test scenario to check maxAge outside of monitored period by [@fernandopradoabrillo](#) in [#236](#)

- <https://github.com/camaraproject/>
Entry point to all API Repositories and other technical information
- Release Notes
 - API Versions
 - Links to view API definitions in different formats
 - Changes described compared to previous public version

API Definition (Redoc format as example)



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Introduction

Relevant terms and definitions

API functionality

Authorization and authentication

Identifying the phone number from the access token >

Additional CAMARA error responses

Further info and support

Retrieve SIM swap date ▾

POST Retrieve SIM swap date

Check SIM swap >

Retrieve SIM swap date

Get timestamp of last SIM swap event for a mobile user account provided with phone number.

AUTHORIZATIONS: > *openid* or *openid*

HEADER PARAMETERS

→ **x-correlator**

string (XCorrelator) `^[a-zA-Z0-9-_:;.\/<>{}]{0,256}$`

Example: `b4333c46-49c0-4f62-80d7-f0ef930f1c46`

Correlation id for the different services

REQUEST BODY SCHEMA: **application/json**
required

Create a SIM swap date request for a phone number.

→ **phoneNumber**

string (PhoneNumber) `^\+[1-9][0-9]{4,14}$`

A public identifier addressing a telephone subscription. In mobile networks it corresponds to the MSISDN (Mobile Station International Subscriber Directory Number). In order to be globally unique it has to be formatted in international format, according to E.164 standard, prefixed with '+'.

Responses

> 200

Contains information about SIM swap change

> 400

Bad Request

> 401

Unauthorized

> 403

Forbidden

> 404

Not found

> 422

Unprocessable Content

> 429

Too Many Requests

POST /retrieve-date ▾

Request samples

Payload

Content type

application/json

Example

Retrieve request without 3-legged access tokens

Copy

```
{  "phoneNumber": "+346661113334"}
```

Response samples

200

400

401

403

404

422

429

Content type

application/json

Example

Lastest SIM swap date is send back ▾

Copy

```
{  "latestSimChange": "2024-09-18T07"
```

Stable, Implementation-ready APIs



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Device Reachability Status & Device Roaming Status

Service providers can ensure reliable service delivery by knowing whether a customer's device is connected and roaming

SIM Swap / Device Swap

Banks and fintech firms can combat fraud by detecting SIM or device changes in real time, reducing account takeover risks.

One Time Password SMS

Enterprises can provide secure, network-based authentication without relying on third-party SMS aggregators.

Number Verification / Location Verification

Retailers, insurers, and government services can validate user identity and prevent fraud at scale.

Quality-On-Demand with QoS Profiles

Gaming, streaming, and enterprise applications can request network performance for critical or latency-sensitive services.

Simple Edge Discovery

Edge computing providers can route workloads to the closest edge node for faster response times and lower latency.

Updated APIs from Spring25 (Examples)



Carrier Billing

App developers and digital content providers can offer frictionless, telco-integrated payments.

Connectivity Insights

Enterprises can understand and optimize network usage trends.

Device Identifier / Location Retrieval

E-commerce and logistics companies can strengthen fraud detection and enable context-aware services.

Population Density Data

Smart cities and event organizers can make real-time decisions on traffic, safety, or capacity planning.

WebRTC Call Handling

Unified communications providers can integrate secure, network-aware calling features.

Key New APIs (early stages)



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Consent Info

Enterprises can validate and capture the necessary permission to process user's personal data with CAMARA APIs e.g. during onboarding.

Dedicated Networks / Network Slice Booking

Industrial, manufacturing, healthcare organizations can reserve network resources for mission-critical use cases.

Energy Footprint Notification

Sustainability-focused enterprises can track and reduce the environmental impact of their digital services.

Verified Caller

Call centers and service providers can eliminate phone scams by proving caller authenticity.

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- Get API definition and documentation from <https://camaraproject.org/api-overview/>
- Get API availability from GSMA public launch status map (linked in API description)
- Get API access e.g. from operator or channel partner (linked in map)

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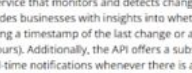
FOR THE OPEN SOURCE ALLIANCE

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API Description

The "Sim Swap" API is a service that monitors and detects changes in the SIM card associated with a mobile number. It provides businesses with insights into whether a SIM card has been swapped recently, either by returning a timestamp of the last change or a yes/no response for a defined period (e.g., the last 24 hours). Additionally, the API offers a subscription mode, enabling businesses to receive real-time notifications whenever there is a change in the SIM card status. This service is particularly valuable for enhancing security in scenarios like fraud prevention, account protection, and transaction validation by identifying potential unauthorized SIM swaps.



API Portfolio: Authentication and Fraud Prevention

- SubProject Wiki: [Number Insights](#) (incl. how to meet the team)
- API Wiki: [Sim Swap](#)
- API Repository: [Sim Swap](#)

API Repository Status:

incubating

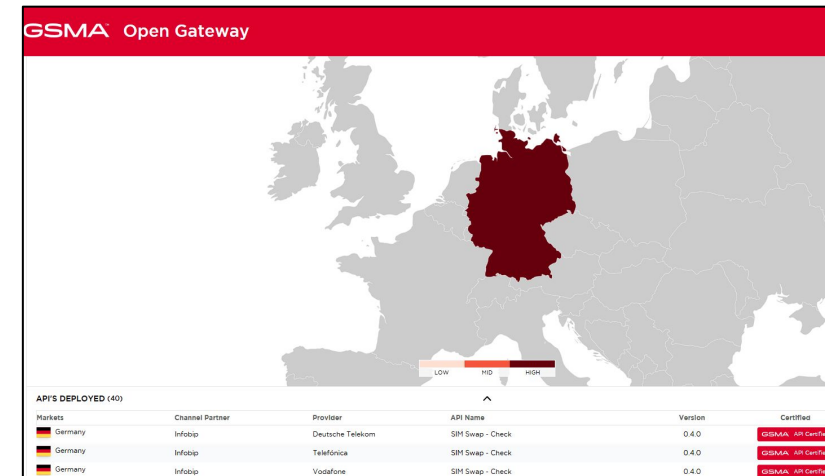
API Status:

Stable

API Version(s) and Release Date(s):

- v0.4.0 (14.11.2023)
- v1.0.0 (04.04.2025), Fall24 meta-release, patch release
- v2.0.0 (13.03.2025), Spring25 meta-release

API availability: Information which APIs are available in which country, and



Benefit for developers to work in CAMARA



As a typical Open Source Project **CAMARA is driven by contribution!**

People who contribute define priorities and drive the direction.

Working in CAMARA on API definitions, API documentations and API code (transformation functions) enables to

- **Bring in own demand** and contribute a solution
- **Influence the definition** of new APIs and API versions
- Ensure that own requirements are considered
- **Learn** about CAMARA, Open Gateway and the Network API ecosystem
- **Get deep knowledge about the APIs**
- **Become maintainer and TSC member** to influence technical decisions in CAMARA

Joining CAMARA as Developer or Contributor



To join the CAMARA mailing list send an (empty) email to all+subscribe@lists.camaraproject.org.

The screenshot shows the CAMARA web interface. The top navigation bar includes 'CAMARA' and 'Your Groups'. The left sidebar contains links for Home (Owner), Subscription, Admin, Pending, Members (highlighted), and Activity. The main content area shows a breadcrumb trail: 'All / Members / markus / markus.kuemmerle@telekom.de Mod'. Below this is a 'Membership' dropdown menu. The 'User Details' section is visible, with the 'Email Address' field containing 'markus.kuemmerle@telekom.de'. A note at the bottom states: 'Note: Changing this email address changes the email address for this person's account, affecting all of their other subscriptions.'

The CAMARA GitHub <https://github.com/camaraproject> can be accessed without any prerequisite. To create issues and start contributing to CAMARA you need a free GitHub account (and an approved EasyCLA).

Celebrating Developers

Congrats to our top 10 Contributors



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Herbert Damker Maintainer



Eric Murray Maintainer



Fabrizio Moggio Maintainer



Ludovic Robert Maintainer



Kevin Smith Maintainer



Pedro Diez Garcia Maintainer



Rafał Artych Maintainer



Jose Luis Urien Maintainer



tanjadegroot Maintainer



Fernando Prado Cabrillo Maintainer

Open Q&A

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Where are we going next...



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1

Additional APIs and roadmap sync across CSPs, Aggregators and Hyperscalers

2

API lifecycle management consistency, Stability and documentation of API availability globally

3

Drive API Adoption (application developers and operators)

CAMARA Contacts



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Individuals and organizations from application developers / API consumers (e.g. enterprises and startups), aggregators, cloud operators, telco operators, network equipment vendors, system integrators, and software vendors are welcome to join CAMARA.

To access CAMARA technical resources like API definitions, API specifications or API code just visit the [CAMARA GitHub](#). All resources are reachable without any prerequisite. To create issues and start contributing to CAMARA you need a free GitHub account without any further prerequisite. This participation is free, without any fees or obligation to work.

If you are interested to be included in the CAMARA communication, please subscribe to all+subscribe@lists.camaraproject.org. You may unsubscribe from CAMARA and these communications at any time. Participation is free.

If you are interested to show your logo on the CAMARA website as “Participating Organization” you can send it to adm@lists.camaraproject.org. Participation is also free.

If you would like to join as CAMARA sponsor or associating organization, please don't hesitate to use the enrollment link <https://enrollment.lfx.linuxfoundation.org/?project=camarafund>. Cost is depending on the kind of membership and the number of employees.





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