



CAMARA
THE TELCO GLOBAL API ALLIANCE



Telefónica



GSMATM

**Unleash the power of 5G in your
code: transform your apps**

10.07.2025

Welcome to the New Telecoms Revolution

Opening up 5G networks for enterprise is the new telecom revolution and developers are key...

Open Gateway working with CAMARA and leading Mobile Operators, Cloud Providers and Technology Companies will Unlock \$300bn Opportunity through Network APIs*

* McKinsey & Company – Study – 24 Feb 2024



What can you do with a 5G network API?

Identity & Fraud Prevention APIs



Enhanced Security

Improved signup

Better Experience

Location and Geofencing APIs



Public Safety

Geofencing

Child & Vulnerable Person Protection

Edge Computing APIs



Latency & Response

Power Management

Efficiency

Payment & Charging APIs



Enhanced Security

Better Experience

Social Inclusion

Quality APIs



Quality on Demand

Improved Service Offers

Better Experience



15:02



Own the city

Enjoy a safer way of getting around



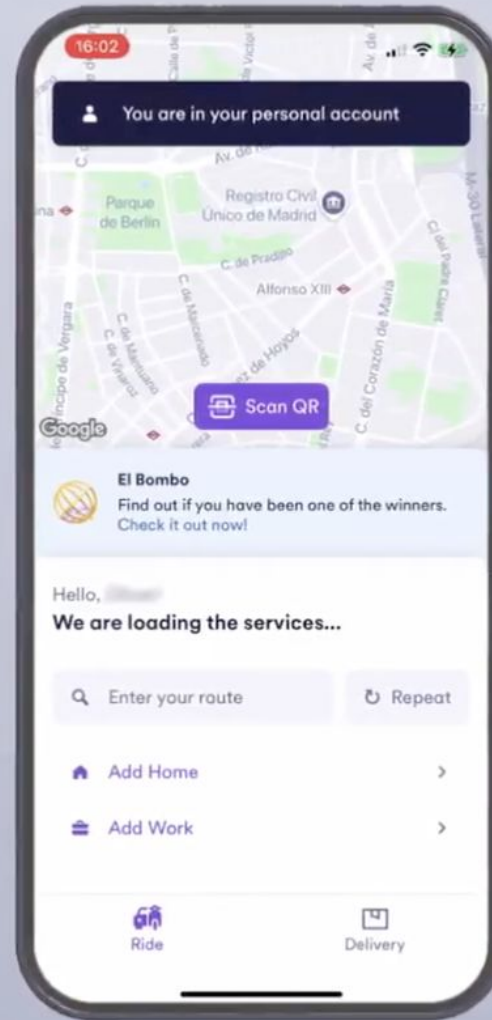
Continue with Google



Continue with Apple

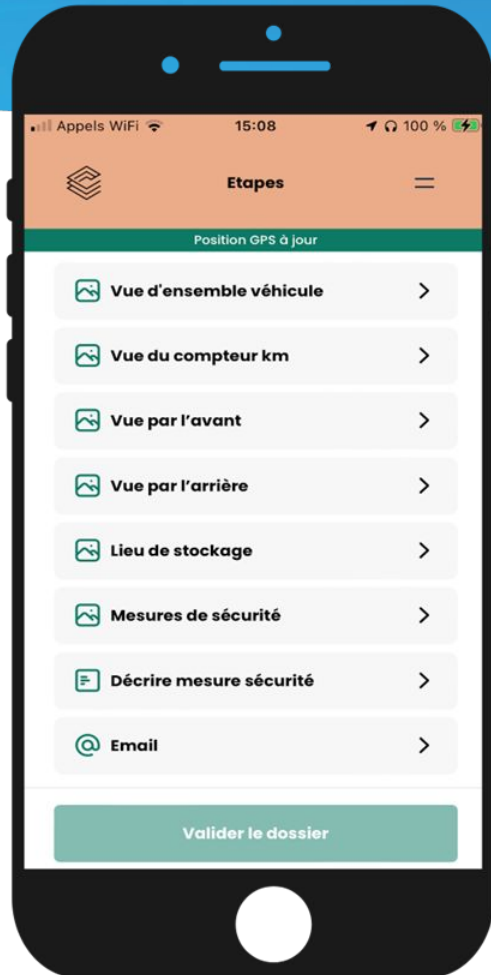
Access with mobile phone number

Access with my business email



<https://github.com/Telefonica/ogw-wad2025-workshop>

Certificall certifies **your data**



eIDAS certification

- **Qualified time-stamping and eSeal signature** via Certigna
- Secure, forgery-proof data



Anti fraud shield

- Advanced monitoring API
- **Enhanced geolocation**
- Behavioral analysis AI



Insurance

Insurer, Broker, MGA



Photo



Video



Audio



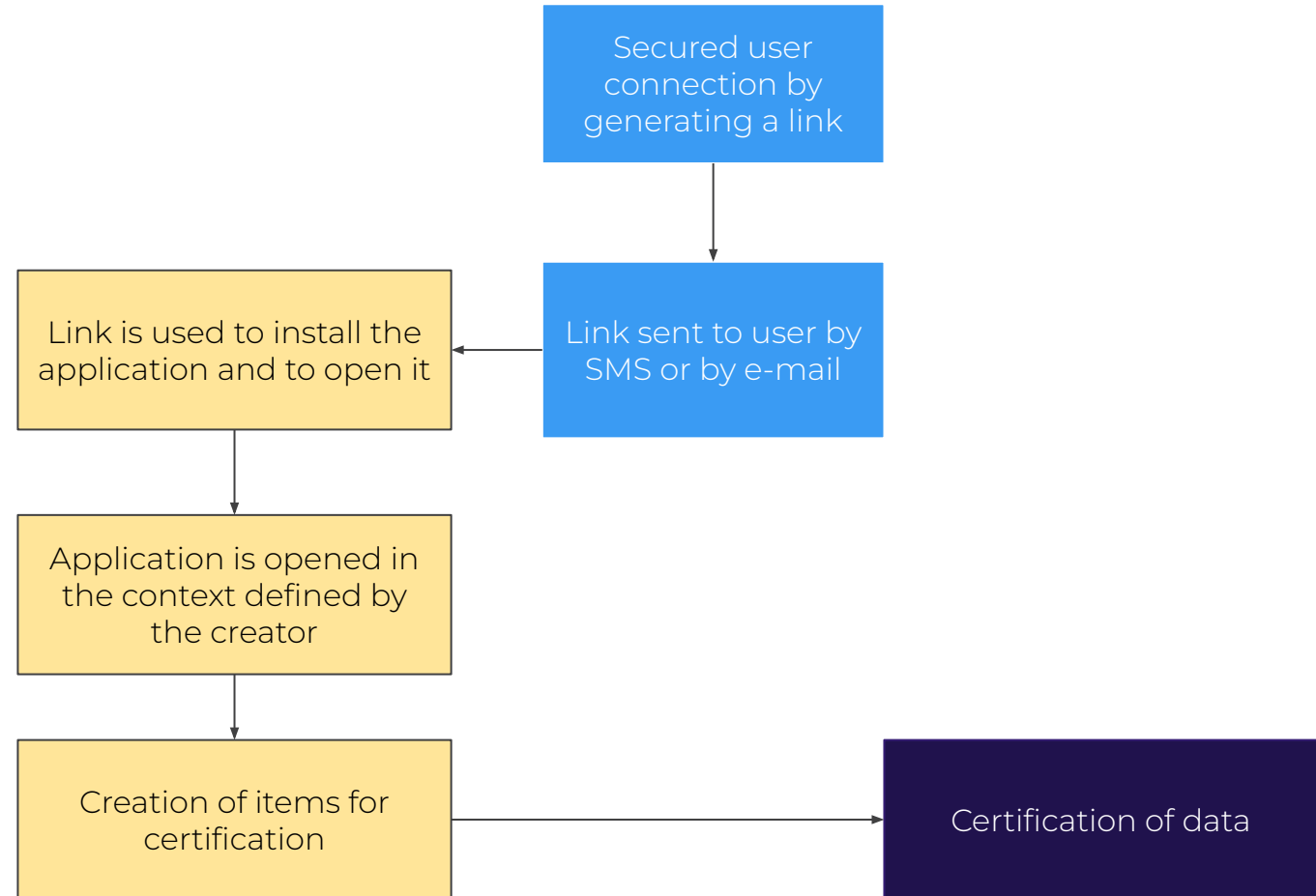
Geolocation

Certificall, *customer journey for insurance claim*

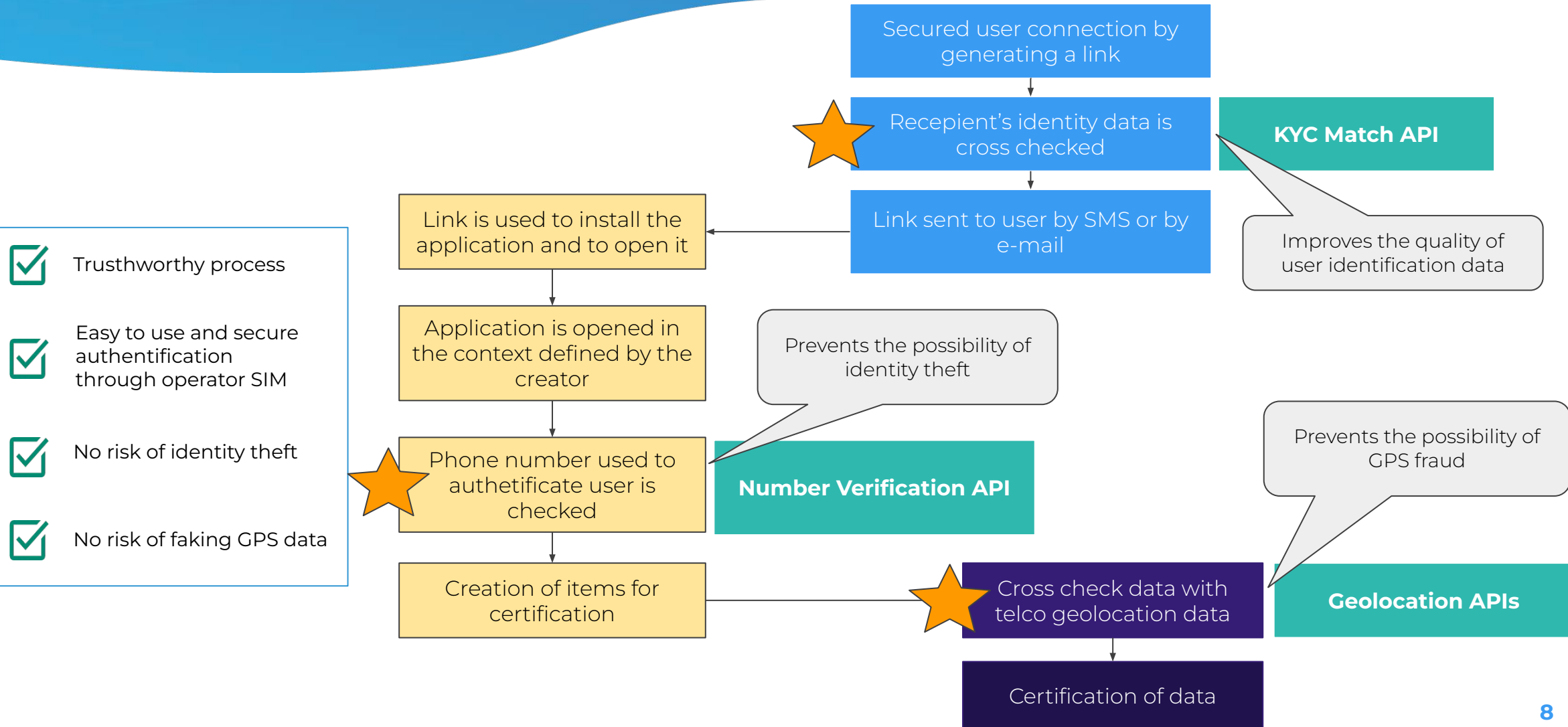
- ✓ Trustworthy process
- ✓ Easy to use
- ✗ Risks of identity theft and fraud
- ✗ Risk of faking GPS data


Identity theft & fraud risks


Fraud risk by using fake GPS data



Certificall, *enhanced with Network APIs*



telco location data

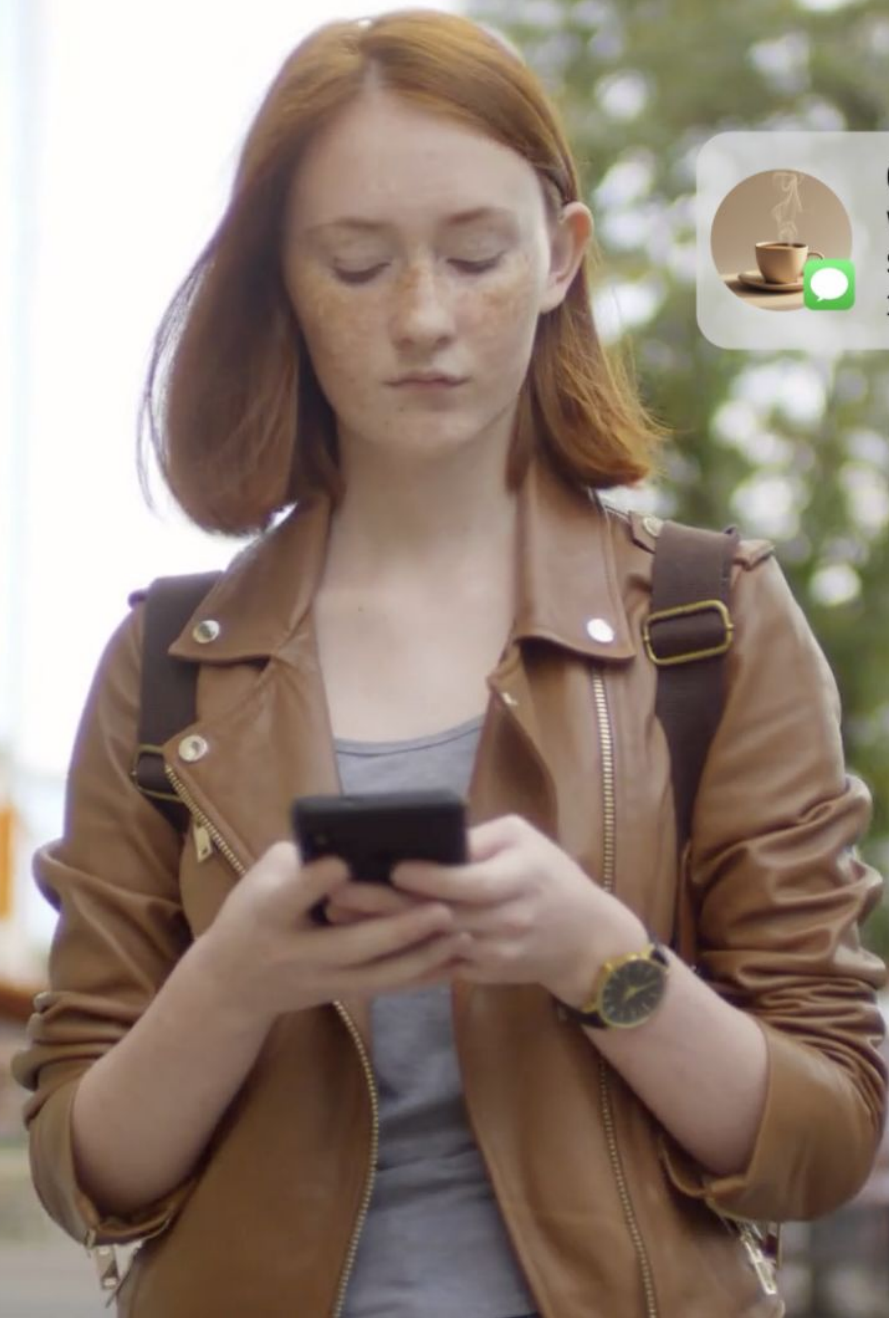


**locate
a device
just by
the number.**



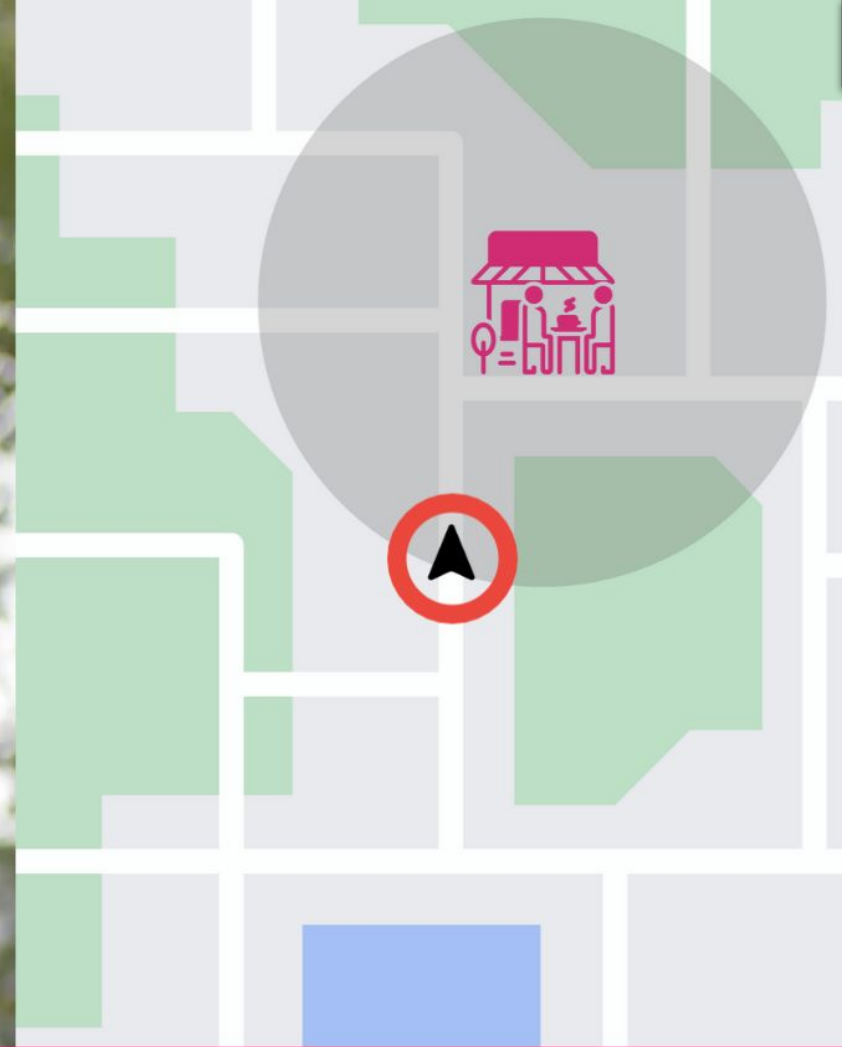
**no App.
save battery.
more privacy.**





Café Bonn

Welcome to the Café Bonn! ☕
Show this message and get a
10% discount.



Geofencing Trigger



Fire Dept. Bonn

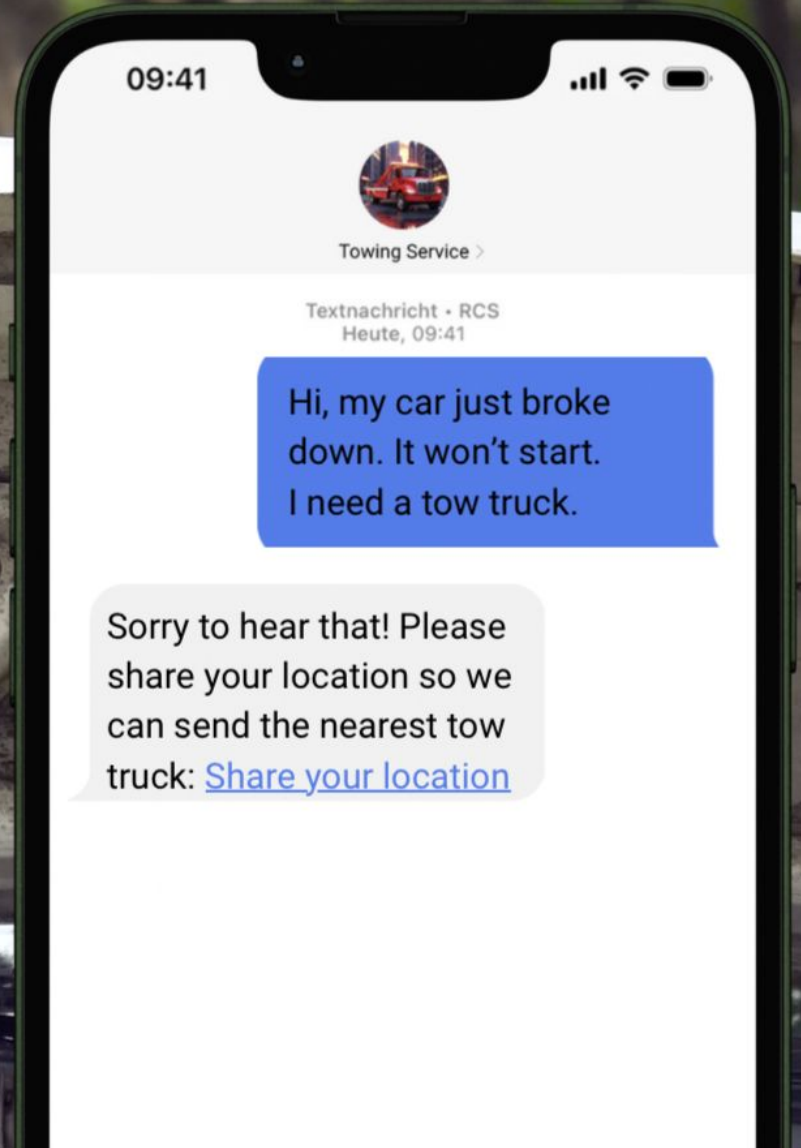
! EMERGENCY ALERT !

Wildfire in progress

Location: Klufferbachtal



Location Retrieval



Beyond these examples much more APIs are available

THE LINUX FOUNDATION PROJECTS							
CAMARA THE TELCO GLOBAL API ALLIANCE							
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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			


61 CAMARA APIs

<https://camaraproject.org/api-overview/>

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API Description

The "Call Forwarding Signal" (CFS) API provides the API consumer with information about the status of the Call Forwarding Service on a specific phone number. The main scope of the CFS API is anti-fraud to avoid fraudsters to use the Call Forwarding Service to carry on a scam. Other use cases are anyway supported by the CFS API that also provides additional endpoints to detect the general Call Forwarding Service settings.



The API consumer invokes the CFS API to determine if a specific phone number has an active "call forwarding" setup. "Call forwarding" is a network service that redirects incoming calls to another phone number (configured in the service). The CFS API can be used by a bank to verify if a "call forwarding" option is active on the customer's phone number to avoid frauds. A call from the

API Portfolio: Authentication and Fraud Prevention

- SubProject Wiki: Call Forwarding Signal (incl. how to meet the team)
- API Wiki: Call Forwarding Signal
- API Repository: Call Forwarding Signal

API Repository Status: Incubating

API Status: Initial

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

- v0.2.0 (2024-09-15), Fall24 meta-release
- v0.3.0 (06.03.2025), Spring25 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.

Make it simple for developers



Define APIs simple, hide telco complexity and diversity



Open Gateway

Standardize operator exposure layer simple, make it available globally

Operators, e.g.



Telefónica

Expose APIs following standards

Aggregators/Channel Partners

Take aggregation and routing

Coverage is already great!

Close to **1300** people from **470** companies are part of CAMARA





More than **80%** of all global mobile Connections are covered by Open Gateway

How can you get the APIs?


Integrate API call in own code, e.g. for Sim Swap:

- Get API definition and documentation from <https://camaraproject.org/api-overview/> (open&free!)
- Get API availability from GSMA public launch status map (linked in API description)
- Get API access e.g. from DT, Orange, Telefonica (linked in map)

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CAMARA FOR THE LINUX ECOSYSTEM		Home	About	<u>API Overview</u>	API Descriptions	Working Groups	Events	Resources	Contact
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			
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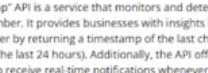



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API Description

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](#)

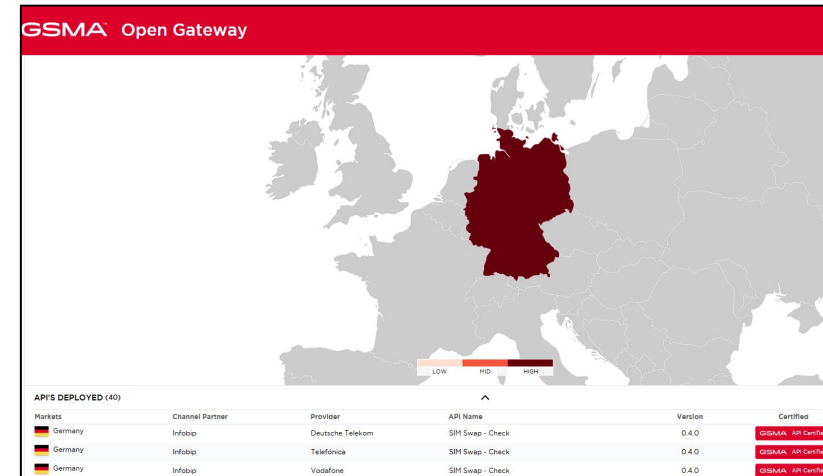
API Repository Status: [Incubating](#)

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



Ask not what you can do for
network APIs, ask what network
APIs can do for you...

Meet us on CAMARA Stand A56 (close stage 11)

- Find out what network APIs are and how you can use them to create new and innovative services
- Find out how to access the CAMARA API repositories and commercial APIs
- Find out how to join network API developer programmes
- Meet companies that are innovating with Network APIs today
- Find out how companies are making money with network APIs today....



Let's talk



<https://camaraproject.org/contact/>



<https://www.gsma.com/solutions-and-impact/gsma-open-gateways/>

