API Datasheet
Location Verification

The Location Verification API lets you verify the geographical location of a given SIM-based device. You will be able to validate whether the device is in a requested geographical area specified by the center and the radius of a circle.This API gives you an easy and fast way to validate whether a user is really where they say they are.

CHARACTERISTICS

- **Easy and fast way to validate the geographical location of your customers, helping you to keep your service under control.**

- **Verification is free from device impersonation and GPS theft or emulation.**

- **Possibility to combine it with other complementary APIs to enforce the security of your service and enhance the user experience.**

- **Uniform access to different telco companies, enhancing the footprint of your business and ensuring consistency across different operators.**

INDUSTRIES

- TRANSPORT & LOGISTICS
- ICT SERVICES
- MARKETING BASED ON DATA
- TRAVEL & HOSPITALITY
- MEDIA, ENTERTAINMENT & XR
- E-COMMERCE & RETAIL
- FINANCIAL SERVICES & INSURANCES

SERVICES

LOCATION

PRODUCT FEATURES

- ❖ Ability to check the presence of a device in a specific geographical circle. The circle is defined by center (latitude, longitude) and radius.

- ❖ The range of radius to specify the circle to be checked is from 2 to 200 km.

- ❖ Keeps sensitive applications and services under control by allowing or denying transactions, enabling or disabling functionalities, etc.

- ❖ Ability to check whether the customer is eligible for a special service because they are/were in a site

BENEFITS

- ✓ Companies get a relevant input to better detect and evaluate fraud in transactions done by their customers.

- ✓ Companies protect their business strategies related to the geographical delivery of their goods and services.

- ✓ Companies can personalize their services according to geographical strategies (enable, disable or differentiate features, etc.).

- ✓ Customers get protected by their service provider from being involved in fraudulent actions.

- ✓ Customers get the most value from their contracted services and purchases.

POPULAR USE CASES

TRANSACTIONS IN PLACE

FINANCIAL SERVICES & INSURANCES

E-COMMERCE & RETAIL

Services: LOCATION

Digitalization of transactions is becoming widespread. This trend leads to have the digital and physical worlds unconnected. But digital activity happens in real physical places. So, this API helps you connect both worlds and enforce security by verifying that the device of the customer is really where the transaction is happening. For example, when a customer is paying at a POS, or withdrawing money from an ATM, you can verify whether the customer is in the geographical zone where the POS or ATM are.

FRAUD DETECTION

E-COMMERCE & RETAIL

MEDIA, ENTERTAINMENT & XR

Services: LOCATION

Gaming Platforms are representative of business that can need to verify where their service is being used from. Soft launches, launches restricted to specific regions or countries, detection of fraud based on fake location, accounts that have been taken over, etc. are examples of use cases for gaming platforms. Other business related to distribution and delivery of goods and services give services that are also location-dependent. So, they may need to validate where their fleet and/or customers are.

SERVICES IN BIG EVENTS

SOCIAL & CUSTOMER ENGAGEMENT

MEDIA, ENTERTAINMENT & XR

Services: LOCATION

The organizers of large sporting, music or entertainment events can provide their audience with special digital services. They can decide to provide these services on site or even after the event having a proof of life they were there. Examples of these special services are Augmented Reality experiences, access to private Web/App zone of the event, eligibility for special fan experiences, access to premium content during and after the event, etc.

GETTING STARTED WITH LOCATION VERIFICATION API

01 **CHOOSE A CHANNEL PARTNER**
Select a suitable channel partner or payment aggregator that offers integration with the Open Gateway API to meet your needs. Contact an expert to get more information about the channel partners availability or to become a new Telefónica Open Gateway Partner.

02 **DEVELOPER REGISTRATION**
To use Open Gateway Products, you must undergo a registration process that includes signing up on both the Channel Partner and Operator platforms.

03 **LOCATION VERIFICATION API CONSUMPTION**
After subscribing and sharing credentials, you can access the Open Gateway Product on registered Operators, making API calls through the Channel Partner's gateway.
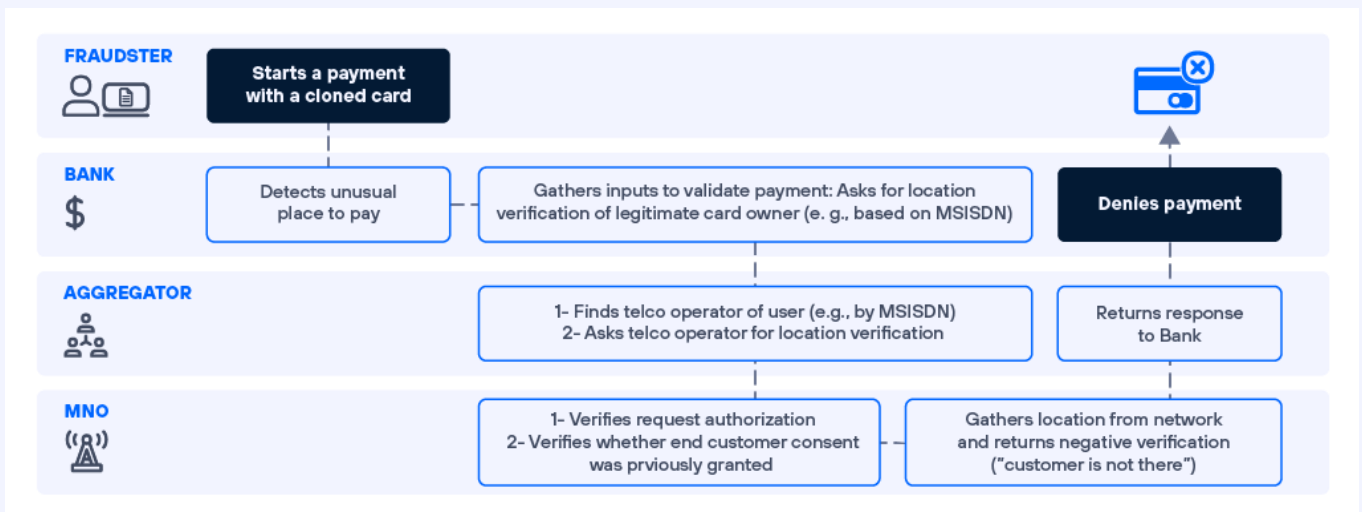
04 **PRIVACY MANAGEMENT**
Some Open Gateway Products require end user consent to access Operator's network capabilities on their behalf.

PRODUCT SPECIFICATIONS

AUTHORIZATION	PI-scope: device-location-read
APLICABLE AUTHENTICATORS FOR ACQUIRING USER CONSENT	Consent of end user needed.
API DOCUMENTATION	Open Gateway: https://opengateway.telefonica.com/apis/device-location CAMARA: https://github.com/camaraproject/DeviceLocation/blob/release-v0.1.0/code/API_definitions/location.yaml
INPUT PARAMETERS	{ueId (req), latitude (req), longitude (req), accuracy (req)}
SERVICE RESPONSE	{verificationResult (req): true/false}

EXAMPLE USER FLOW

FURTHER INFORMATION

Join the **Telefónica Open Gateway Developer Hub** to test our API, develop use cases and improve user experiences.

If you are interested in the potential of Telefónica Open Gateway initiative and you are willing to collaborate with us, **access our Partner Program.**

For further questions about the initiative **contact our experts.**