

Open Gateway

Device Roaming Status API

Assessing Roaming Activity to
Improve Digital Identity Assurance





Open Gateway is a global initiative,
enabling telco operators to expose
core network capabilities as standardized,
interoperable APIs.



Global & Multi-telco: Backed by GSMA, adopted by Telcos Worldwide



Standardized & Secure: Built on CAMARA open standards, privacy-first by design.



Trusted Network Intelligence: Telco-grade accuracy and trust.

80

Operator
Groups

291

Mobile
Networks

>80%

Network
Connections

Roaming Status Verification – Real-time Location Intelligence for Security

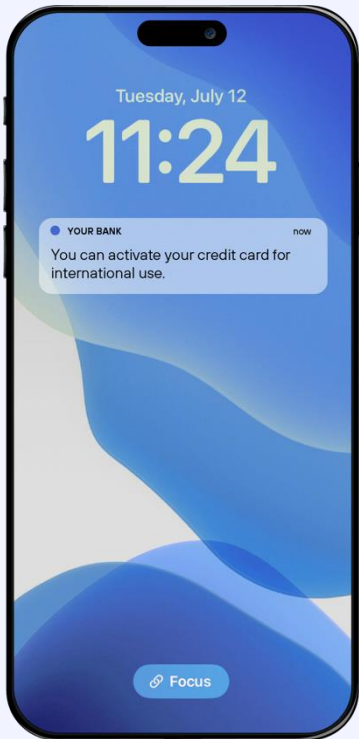
Instantly confirm device roaming status to **prevent fraud**, enable secure transactions, and **deliver seamless experiences** for traveling customers worldwide.



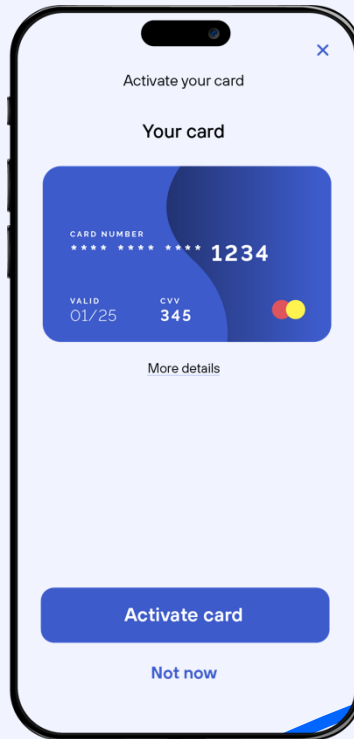
Device Roaming Status API verifies device legitimacy



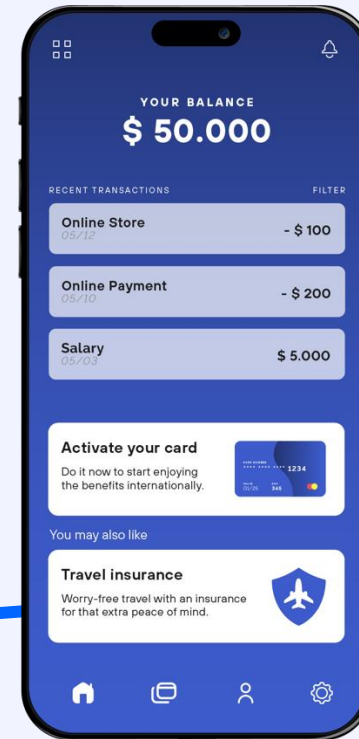
Provides real-time insight into a device's operational state by checking network registration and activity, enabling detection of lost, inactive, or compromised devices during authentication events.



A bank queries the Device Roaming Status API to find out if a customer's device is roaming...



...with this verification they can alert the customer in case of theft or fraud...



...or offer specific services such as activating their credit card for international use.

Device Roaming Status API is applicable to different use cases



Cross-Border Transaction Security

Validate roaming status before approving international payments to reduce fraud risk.



Account Access Control

Confirm device location during login attempts to prevent unauthorized access from unexpected regions.



Travel Service Activation

Enable roaming-based services dynamically for customers without manual intervention or delays.



Fraud Risk Assessment

Use roaming data to flag suspicious activity and apply additional verification when needed.



Regulatory Compliance Checks

Automate location validation for cross-border services to meet global compliance requirements.



Dynamic Authentication

Adjust security measures based on roaming status for high-risk actions like password resets or fund transfers.

Device Roaming Status API benefits



Fraud Reduction

Real-time SIM swap detection prevents identity theft and unauthorized transactions across multiple digital and financial services.



Regulatory Assurance

Reduce manual fraud investigations and financial losses through automated SIM swap detection and prevention.



Frictionless Experience

Enable seamless checks without disrupting legitimate user experience or slowing down onboarding processes.



Customer Confidence

Meet anti-fraud and KYC requirements for financial institutions and digital service providers globally.



Operational Efficiency

Protect sensitive accounts and transactions across banking, retail, and digital platforms with robust SIM integrity checks.



Future-Ready Capabilities

Enable proactive fraud alerts and advanced risk scoring for evolving threats and new business models.

Next Steps to start using the Device Roaming Status API



Sandbox Testing

✓ Join Partner Program ✓ Test use case ✓ PRO environment



Try & Buy

✓ Proof of Concept ✓ Validate use case ✓ Business model discussion

Related Open Gateway APIs: to be combined with Device Roaming Status API in particular use case for added value



Device Swap API

Queries network data to detect recent changes in a user's device IMEI, enabling real-time risk assessment and enhanced fraud prevention.



KYC - Match API

Validates identity information against trusted operator data, using a sophisticated scoring system to provide a reliable approach to rapid online identity verification, onboarding and security.



Number Verification

Authenticates the user of an app or online service by checking if the phone number they provide matches the one associated with the device they are currently using.



Telefónica

opengateway.telefonica.com

Device Roaming Status API: Real-Time Roaming Insight



Determines how long a phone number has been active on a network by querying operator data, supporting identity validation, credit risk assessment, and fraud prevention processes.



Secure International Transactions

Validate roaming status before processing payments or sensitive actions to prevent fraud.



Comprehensive Fraud Protection

Use roaming intelligence to prevent unauthorized access and high-risk transactions worldwide.



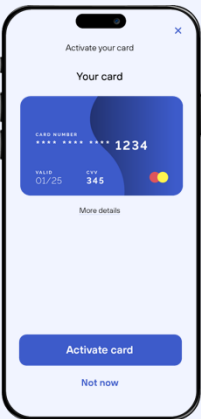
Seamless Global Experience

Enable secure, frictionless services for customers traveling across borders without compromising security.



Compliance and Scalability

Automate roaming verification to meet global regulations and adapt to future service needs.



Adaptive Authentication

Use real-time roaming data to strengthen login security and account recovery processes.



Compliance and Service Optimization

Automate roaming checks to meet regulations and improve customer experience abroad.

Request	phone number
Response	True/False Country code Country Name