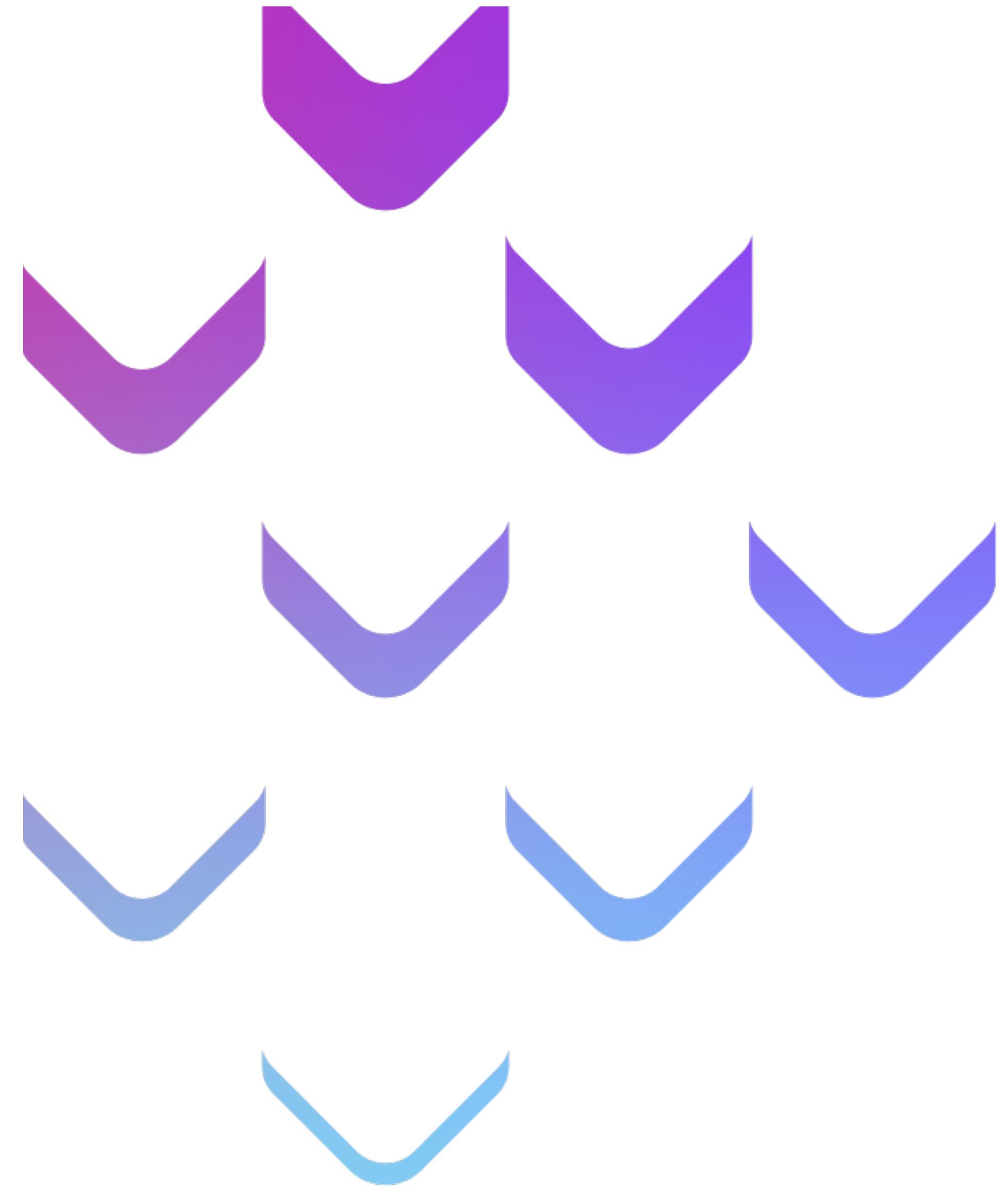


The Next API Revolution Will Be Wireless

Paul Ardeleanu

Senior Manager, Developer Relations



Vonage Developer Center

Communications API

Integrate sms, voice, video and two-factor authentication into your apps with Vonage communication APIs. Build complex conversational flows with a user friendly drag-and-drop interface in Vonage AI Studio .

 Get Started

 Full Documentation

Send an SMS

cURL Node.js Java .NET PHP Python

```
curl -X "POST" "https://rest.nexmo.com/sms/json" \
-d "from=$VONAGE_BRAND_NAME" \
-d "text=A text message sent using the Vonage SMS API" \
-d "to=$TO_NUMBER" \
-d "api_key=$VONAGE_API_KEY" \
-d "api_secret=$VONAGE_API_SECRET"
```

[View full source](#)

 Most popular

 Telecommunications

 In-app communications

 Identity verification

Two factor authentication

Add an extra layer of security when users perform sensitive tasks by confirming their identities.

Verify API

Telecommunications

Video Chat Embeds

Generate a 1-to-1 video appointment workflow. This can be used for a doctor-patient, student-teacher, or any other 1-to-1 web scheduling application.

Video API

In-app communications

Interactive Voice Response (IVR)

Build an automated phone system for users to input information with the keypad and hear a spoken response

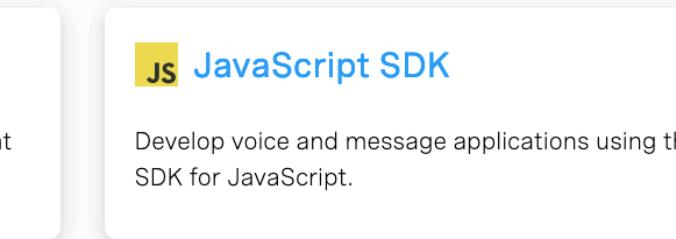
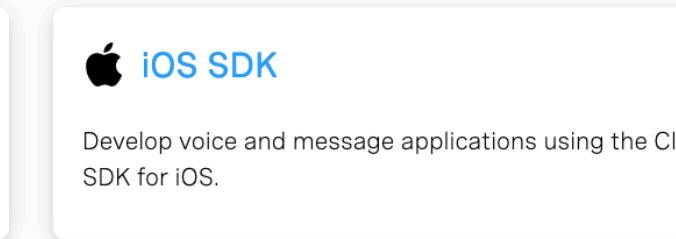
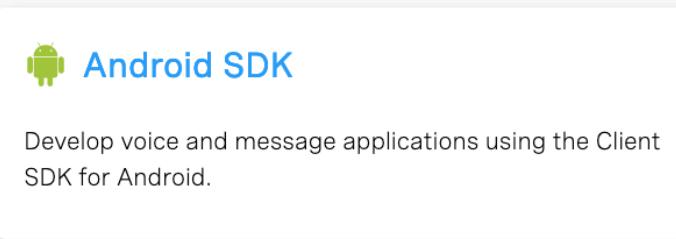
Voice API

Telecommunications

developer.vonage.com/tools

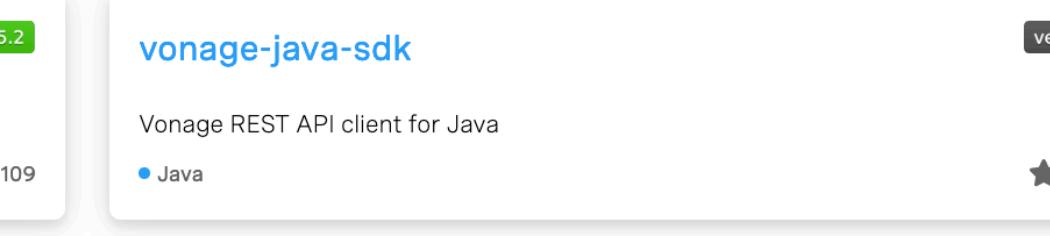
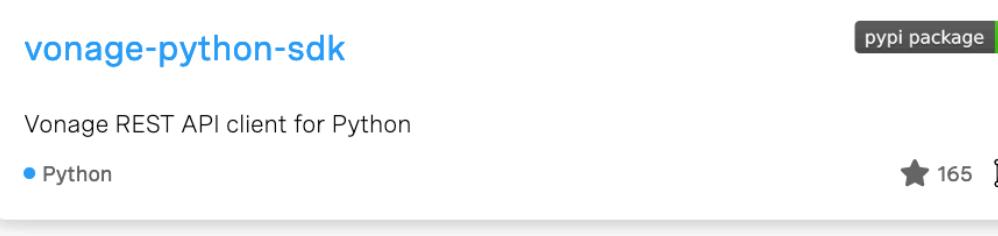
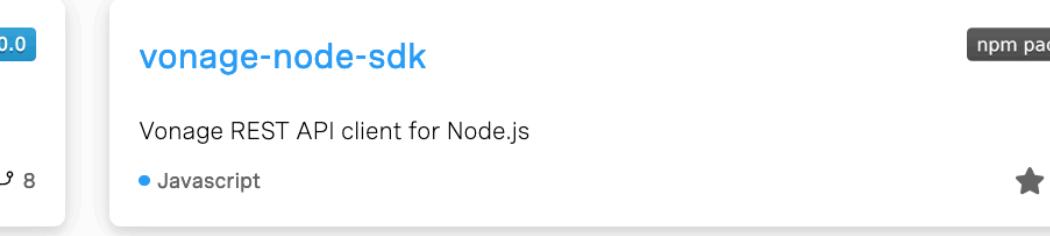
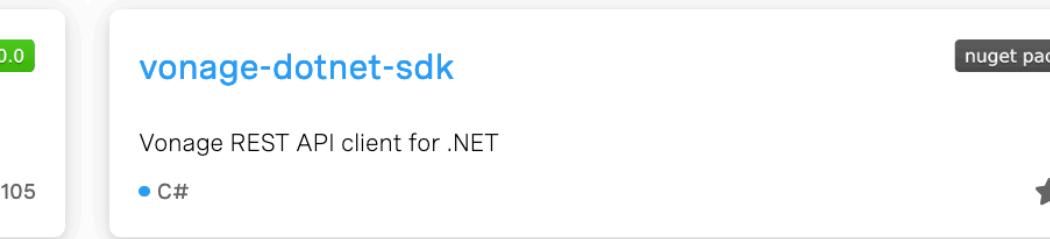
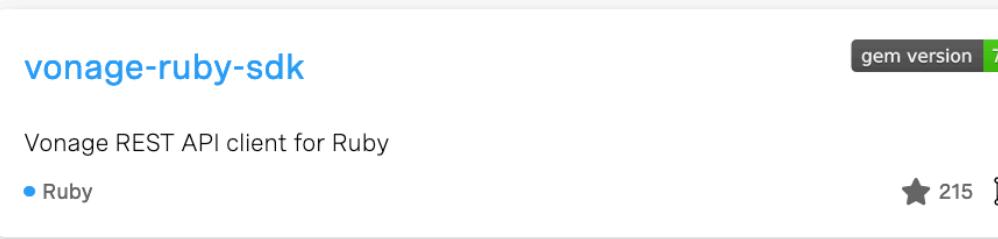
Client SDKs

The Client SDKs allows you to build in-app messaging and voice solutions. Android, iOS and JavaScript are supported.



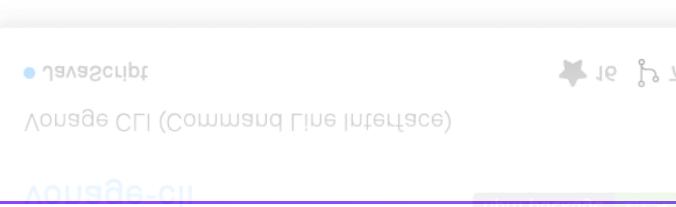
Server SDKs

The Server SDKs allow you to quickly get up and running with the Vonage APIs in your language of choice.



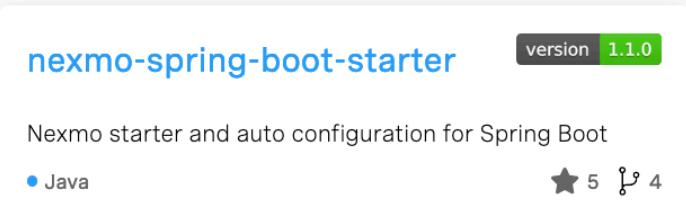
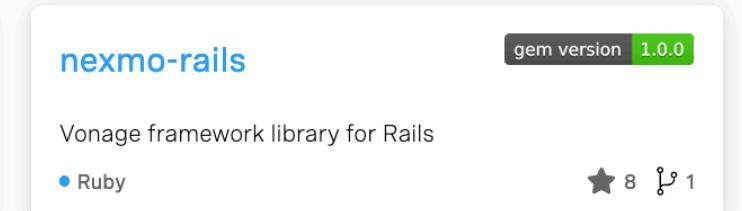
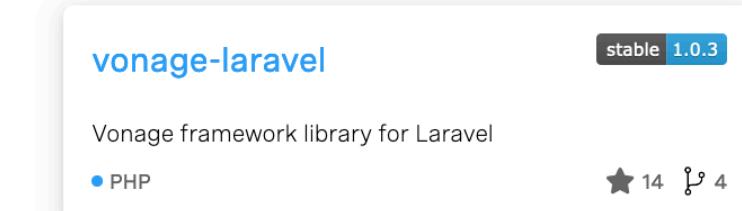
Vonage CLI

You use the Vonage Command Line Interface (CLI) to manage your Vonage account and use Vonage API products from the command line.



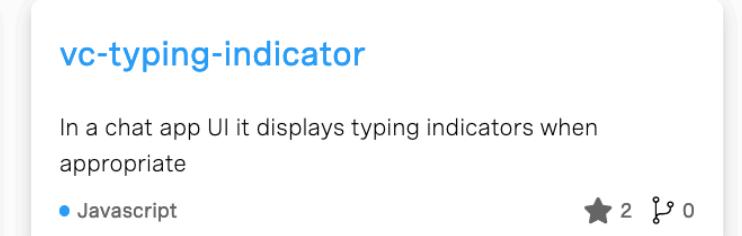
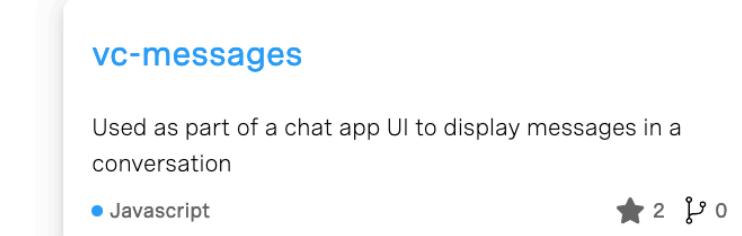
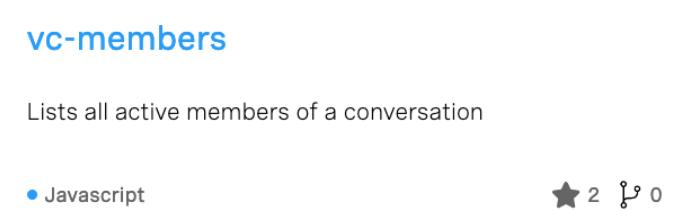
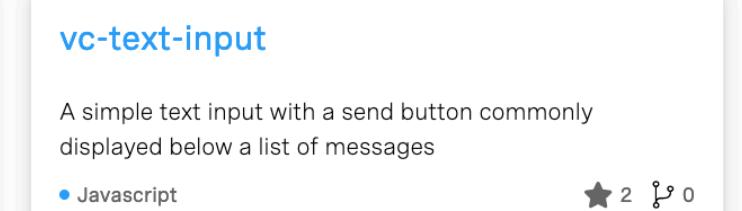
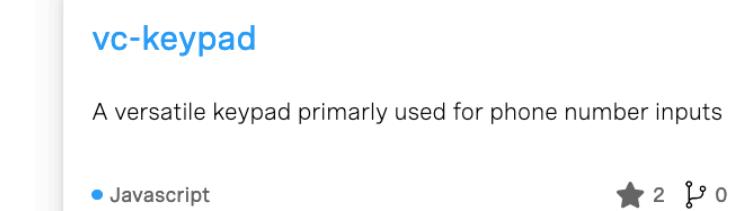
Framework Libraries

The Vonage framework libraries can get you up and running with the Vonage APIs quickly and easily in your framework of choice.



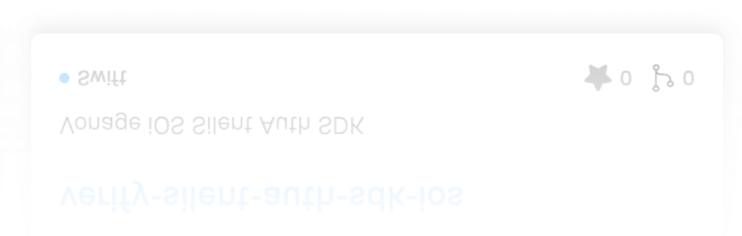
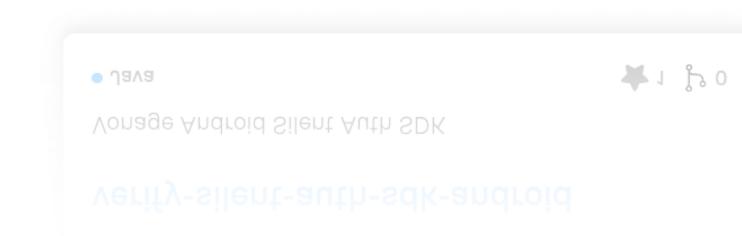
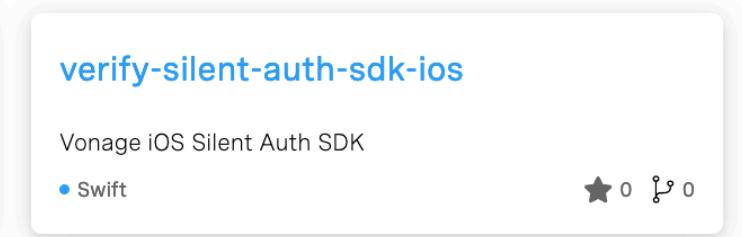
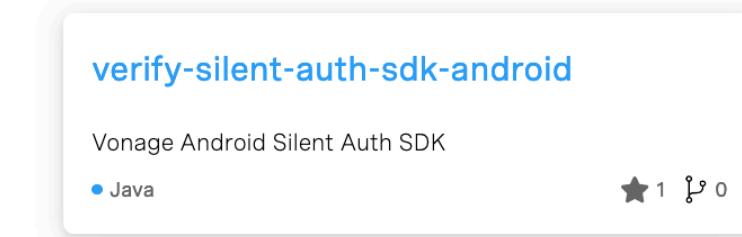
Client SDK UI Web Components

A set of UI Web Components to be used with the Vonage Client SDKs.



Silent Authentication SDKs

The Silent Authentication SDKs allow you to force a mobile connection for a successful HTTP request.





Latest News: Camara Graduates to Funded Model with Strong Industry Commitment

[Read More →](#)

APIs enabling seamless access to 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.

"Magical" handsets





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Daily Data

Services ▾



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Internet › Mobile Internet & Apps

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Mobile internet usage worldwide - Statistics & Facts

Worldwide ▾

Mobile devices have become a fixture of everyday life for millions of people. Across the globe, web-enabled devices such as smartphones and tablets have evolved into essential tools for communication, information, and entertainment alike. In 2022, the number of [unique mobile internet users](#) stood at five billion, indicating that over 60 percent of the global internet population uses a mobile device to go online. Mobile ownership and [internet usage](#) are forecasted to keep growing in the future, as mobile technologies are becoming more affordable and available than ever. This upward trend in mobile internet adoption is particularly visible in developing digital markets where mobile networks are the primary means of internet access. Today, [mobile internet traffic accounts for](#) almost 60 percent of total web traffic, while in mobile-first markets such as Asia and Africa, mobile connections account for an even larger share of webpage views.

[Show more ▾](#)Published by [Statista Research Department](#), Sep 14, 2023

KEY INSIGHTS

Active mobile internet users worldwide in 2022

4.97bn

Mobile internet traffic as share of total global online traffic

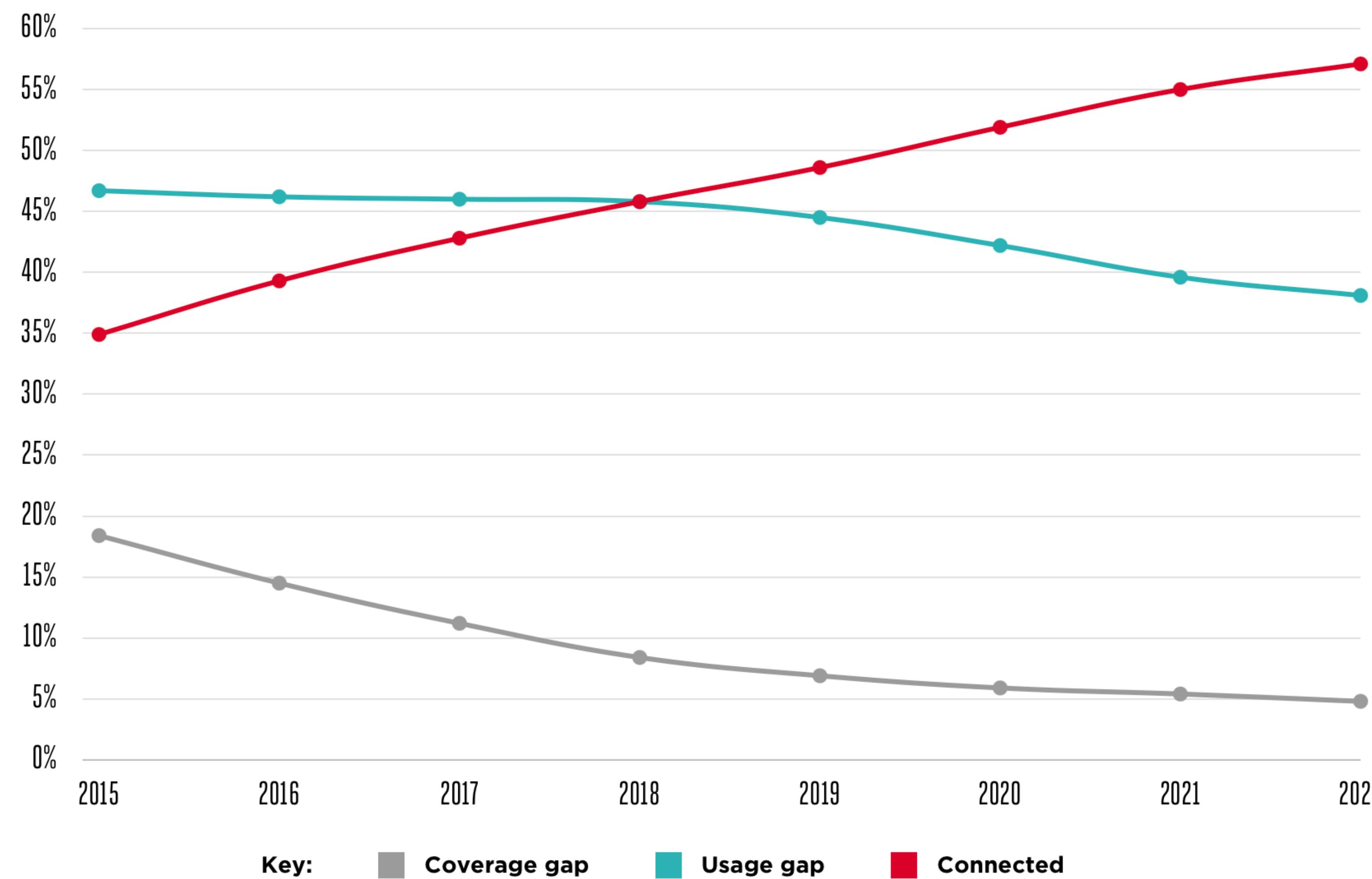
58.5%

Country with the fastest average mobile internet speed

Qatar[Get more insights](#)

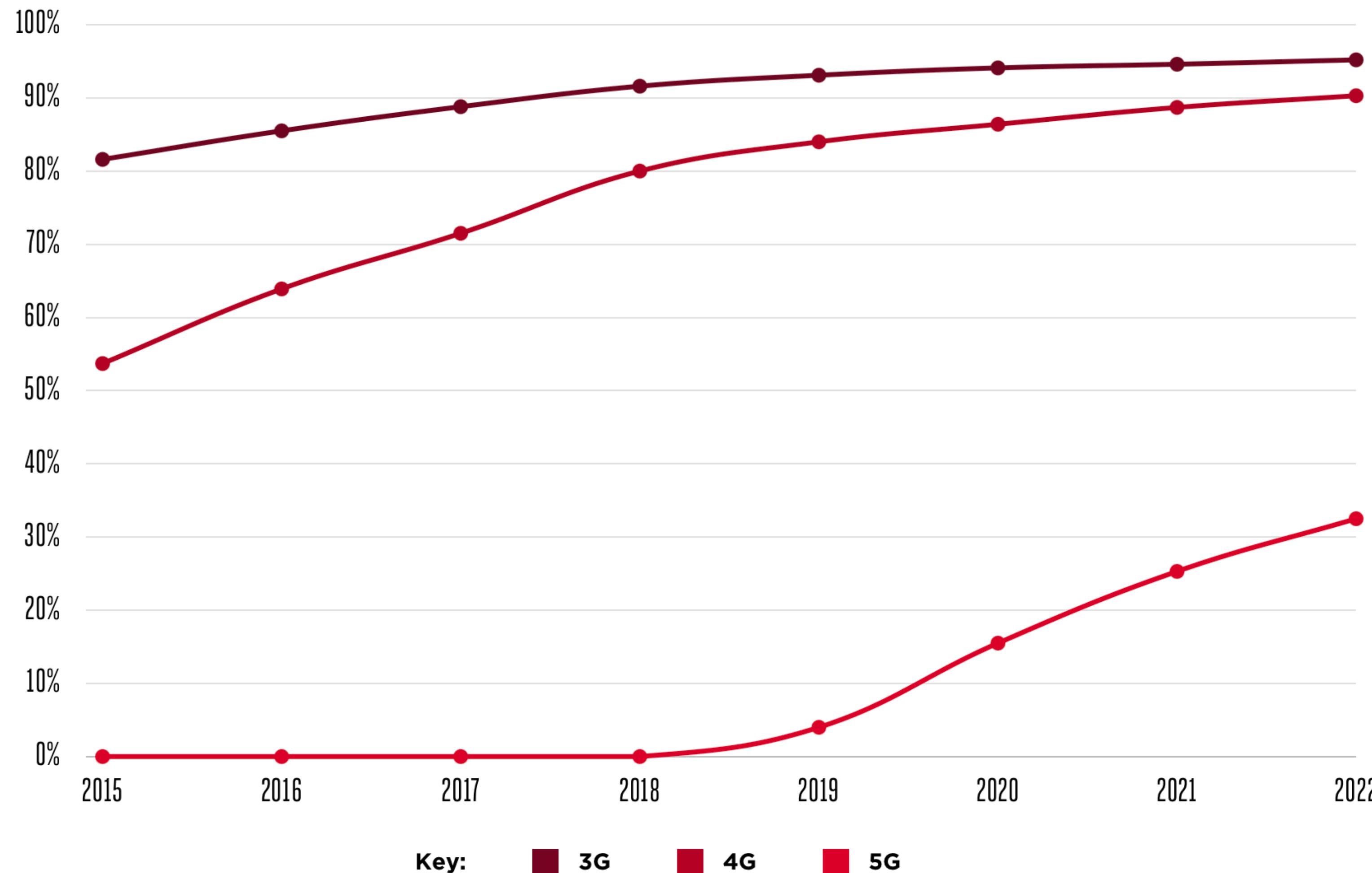
Mobile internet connectivity**3G, 4G & 5G****Download speeds**

This graph shows the evolution of global mobile internet connectivity from 2015 to 2022, including the percentage of people connected, the coverage gap and the usage gap.



Mobile internet connectivity**3G, 4G & 5G****Download speeds**

This graph shows the trend in 3G, 4G and 5G coverage from 2015 to 2022.



STARLINK

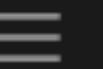
RESIDENTIAL

ROAM

BOATS

PERSONAL

BUSINESS



RESIDENTIAL

Connect at home



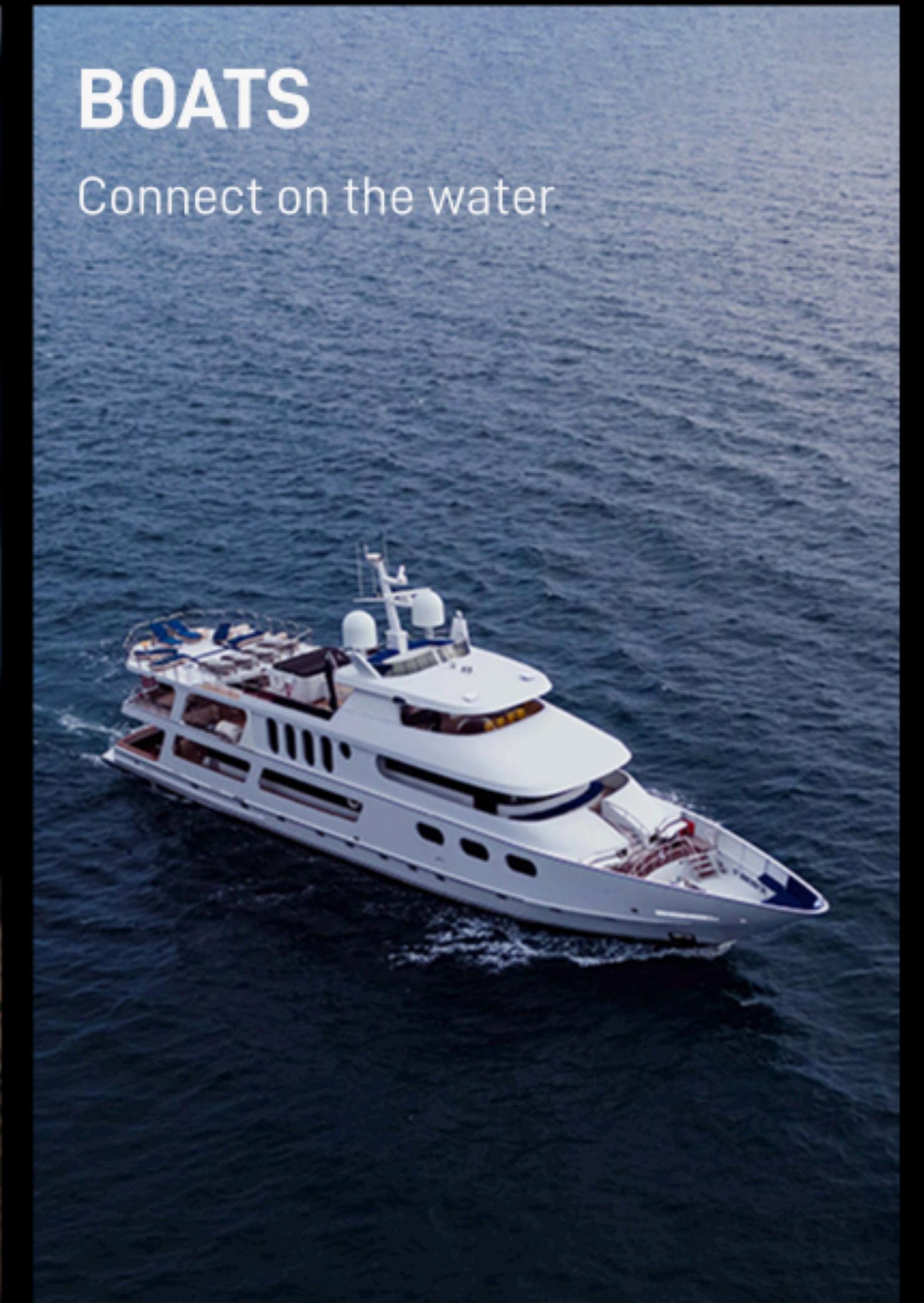
ROAM

Connect on the go



BOATS

Connect on the water



"Magical" handsets



iPhone 15 Pro



- 5G NR (Bands n1, n2, n3, n5, n7, n8, n12, n20, n25, n26, n28, n30, n38, n40, n41, n48, n53, n66, n70, n75, n76, n77, n78, n79)
- FDD-LTE (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28, 30, 32, 66)
- TD-LTE (Bands 34, 38, 39, 40, 41, 42, 46, 48, 53)
- UMTS/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)
- GSM/EDGE (850, 900, 1800, 1900 MHz)
- 5G (sub-6 GHz) with 4x4 MIMO7
- Gigabit LTE with 4x4 MIMO and LAA7

Pixel 8 Pro



- 5G mmWave + Sub 6GHz23: Quad-band (850, 900, 1800, 1900 MHz)
- UMTS/HSPA+/HSDPA: Bands 1,2,4,5,6,8,19
- LTE: Bands B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/38/39/40/41/46/48/66/71
- 5G Sub-623: Bands n1/2/3/5/7/8/12/20/25/26/28/29/30/38/40/41/48/66/70/71/77/78
- 5G mmWave23: Bands n257/258/260/261
- eSIM

A trip down the memory lane...



1900

1920

1940

1960

1980

2000

2020

2040

Early Experiments (late 1800s - early 1900s)



James Clerk Maxwell

Predicted the existence of
radio waves.



Heinrich Hertz

Demonstrated the existence of
electromagnetic waves.



Guglielmo Marconi

Wireless telegraphy

1900

1920

1940

1960

1980

2000

2020

2040

Radio Era (1920s - 1930s)



Early
Experiments

Radio

1900

1920

1940

1960

1980

2000

2020

2040

Microwave Communication (40s - 50s)



Early
Experiments

Radio

Microwave

1900

1920

1940

1960

1980

2000

2020

2040

Cellular Networks (70-80s)



Early
Experiments

Radio

Microwave

1G

1900

1920

1940

1960

1980

2000

2020

2040

Digital Era (90s)



Early
Experiments

Radio

Microwave

1G

2G

1900

1920

1940

1960

1980

2000

2020

2040

Internet Connectivity (00s)



Early
Experiments

Radio

Microwave

1G

2G

3G

1900

1920

1940

1960

1980

2000

2020

2040

Faster Connectivity (late 00s-10s)



Early
Experiments

Radio

Microwave

1G

2G

3G

4G

1900

1920

1940

1960

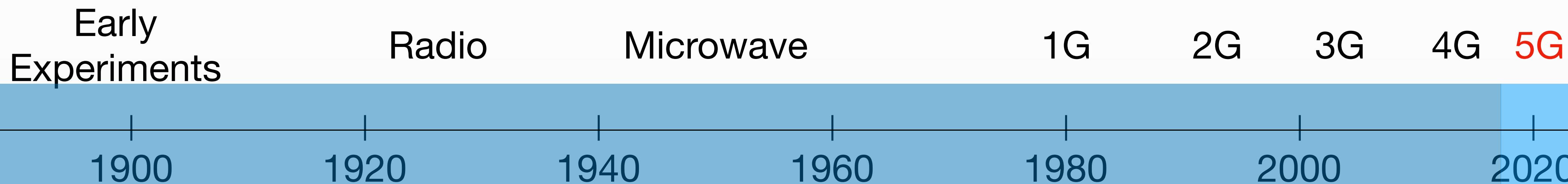
1980

2000

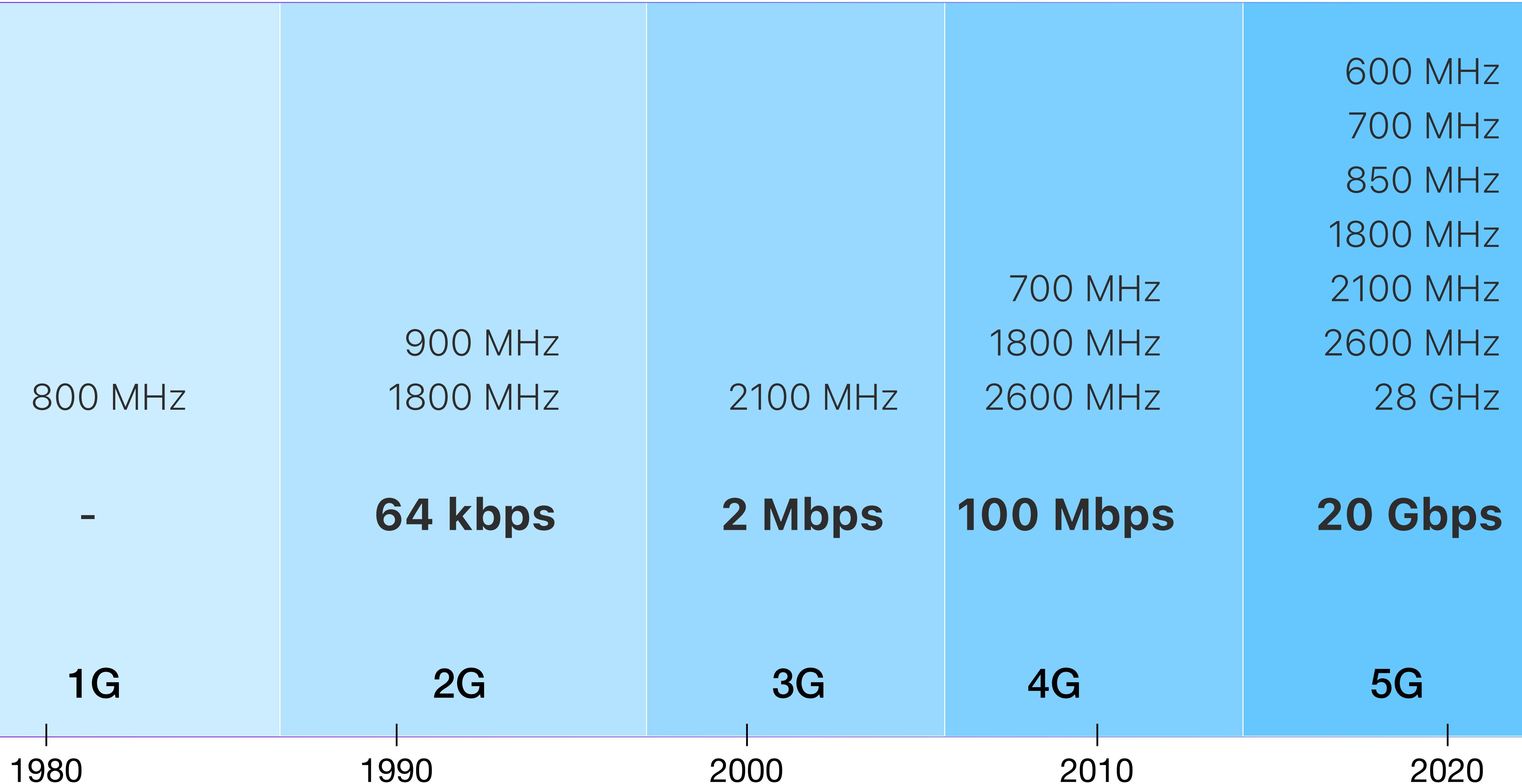
2020

2040

Faster-er 😊 Connectivity (2020s)



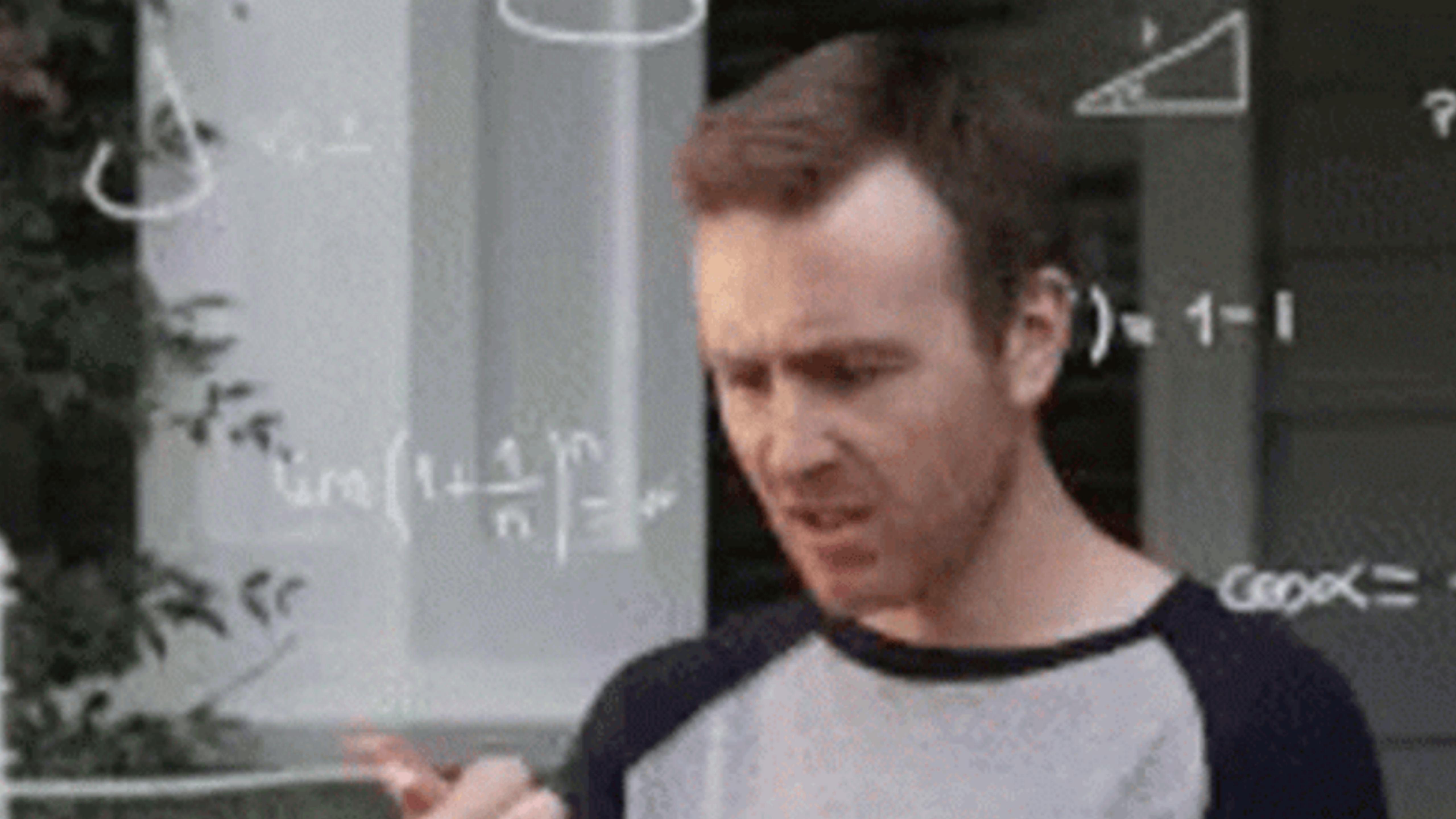
Frequencies & Speeds



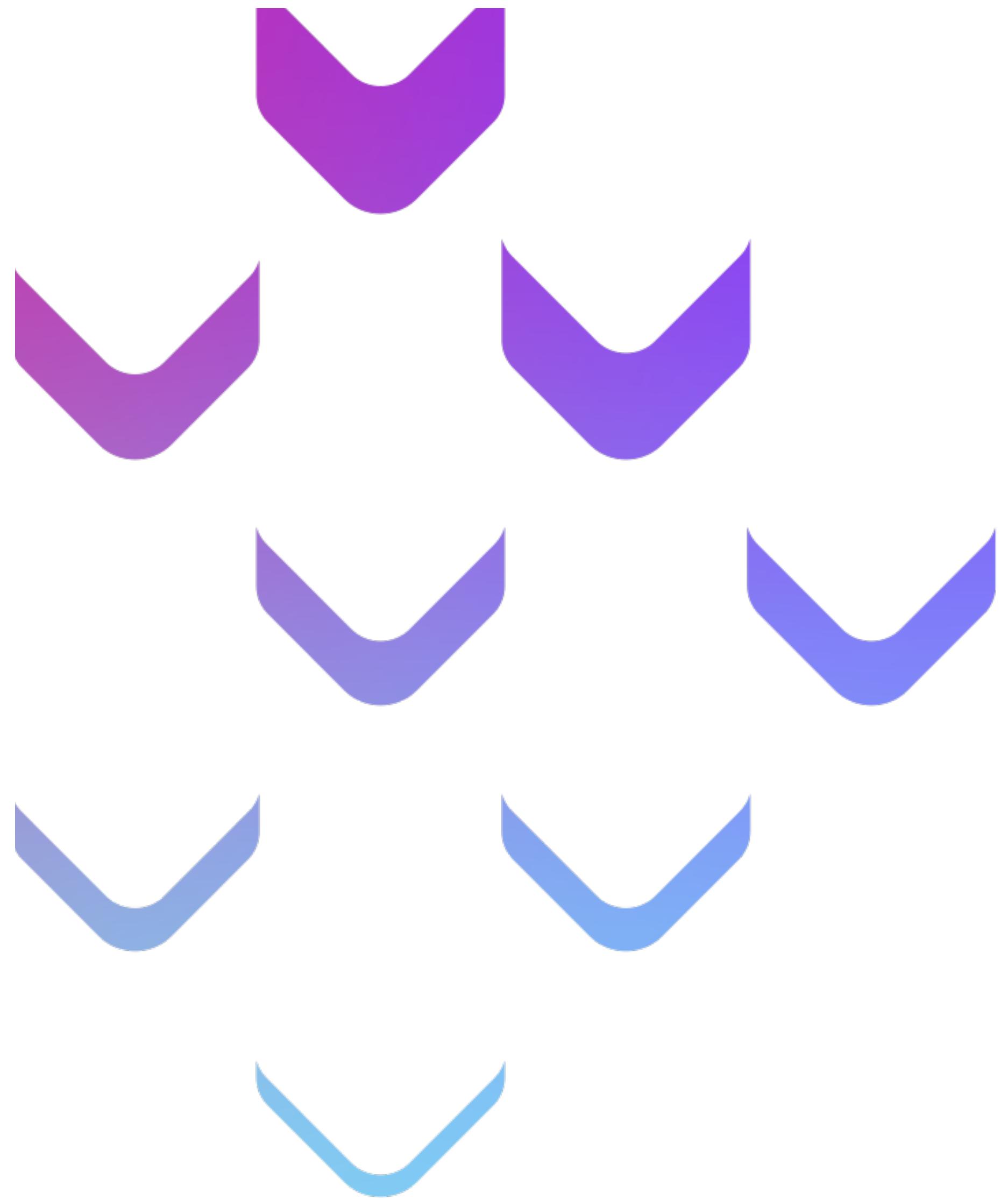
iPhone 15 Pro



- 5G NR (Bands n1, n2, n3, n5, n7, n8, n12, n20, n25, n26, n28, n30, n38, n40, n41, n48, n53, n66, n70, n75, n76, n77, n78, n79)
- FDD-LTE (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28, 30, 32, 66)
- TD-LTE (Bands 34, 38, 39, 40, 41, 42, 46, 48, 53)
- UMTS/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)
- GSM/EDGE (850, 900, 1800, 1900 MHz)
- 5G (sub-6 GHz) with 4x4 MIMO7
- Gigabit LTE with 4x4 MIMO and LAA7



What's next?



CAMARA - The Telco Global API Alliance

The screenshot shows a web browser window with the URL www.linuxfoundation.org/press/press-release/linux-foundation-announces-new-project-camara-the-telco-global-api-alliance-with-global-industry-ecosystem. The page has a purple header with the text "Learn how open source is advancing the UN's sustainability goals. [Read the research.](#)". It features the Linux Foundation logo and a "JOIN" button. On the left, there is a vertical blue sidebar with social sharing icons for email, Twitter, Facebook, and LinkedIn. The main content area has a "3 MIN READ" label and a large title: "Linux Foundation Announces New Project ‘CAMARA - The Telco Global API Alliance’ with Global Industry Ecosystem". Below the title, it says "THE LINUX FOUNDATION | 27 FEBRUARY 2022". A summary text states: "Open source project to address industry API interoperability leveraging GSMA OPG requirements and Linux Foundation’s Developer Ecosystem". The main body text discusses the announcement at "SAN FRANCISCO and BARCELONA, Spain —Mobile World Congress 2022 —February 28, 2022" by The Linux Foundation and GSMA, mentioning the new project "CAMARA – The Telco Global API Alliance". The bottom right corner of the slide includes the date "monthly, Nov 2023" and page number "27".

Learn how open source is advancing the UN's sustainability goals. [Read the research.](#)

ENGLISH Sign In

JOIN

3 MIN READ

Linux Foundation Announces New Project “CAMARA - The Telco Global API Alliance” with Global Industry Ecosystem

THE LINUX FOUNDATION | 27 FEBRUARY 2022

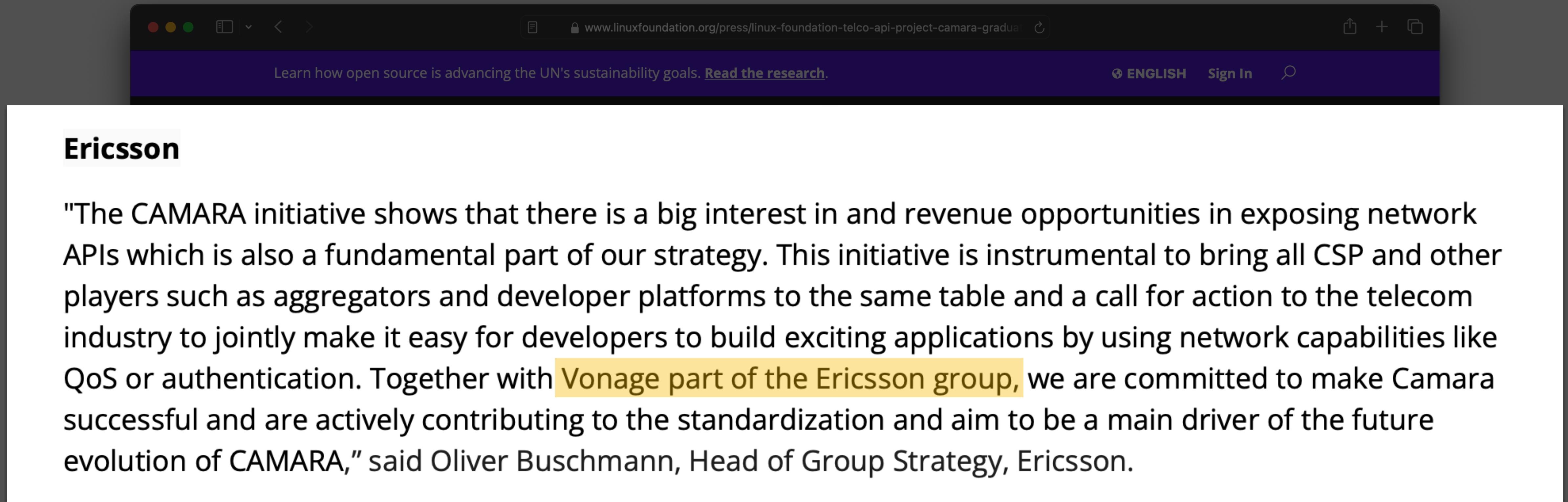
Open source project to address industry API interoperability leveraging GSMA OPG requirements and Linux Foundation’s Developer Ecosystem

SAN FRANCISCO and BARCELONA, Spain —Mobile World Congress 2022 —February 28, 2022 —The Linux Foundation, the nonprofit organization enabling mass innovation through open source, and the GSMA, a global organization unifying the mobile ecosystem to discover, develop and deliver innovation foundational to positive business environments and societal change, today announced a new, open source project: “CAMARA – The Telco Global API Alliance”. The global partnership will address challenges in porting and reproducing API services across heterogeneous operator and cloud architectures.

@pardele

monthly, Nov 2023 27

CAMARA - The Telco Global API Alliance



The screenshot shows a web browser window with a purple header bar. The header bar contains the text "Learn how open source is advancing the UN's sustainability goals. [Read the research.](#)", a language selection "ENGLISH", a "Sign In" button, and a search icon. The main content area features a quote from Ericsson:

Ericsson

"The CAMARA initiative shows that there is a big interest in and revenue opportunities in exposing network APIs which is also a fundamental part of our strategy. This initiative is instrumental to bring all CSP and other players such as aggregators and developer platforms to the same table and a call for action to the telecom industry to jointly make it easy for developers to build exciting applications by using network capabilities like QoS or authentication. Together with **Vonage part of the Ericsson group**, we are committed to make Camara successful and are actively contributing to the standardization and aim to be a main driver of the future evolution of CAMARA," said Oliver Buschmann, Head of Group Strategy, Ericsson.

THE LINUX FOUNDATION | 19 SEPTEMBER 2023

- *Successful collaboration on open source telco APIs drives CAMARA project to next level with Premier and General project sponsors bolstering new funded model*
- *250 companies and 750+ contributors dedicated to collaboratively define interfaces providing customers with access to telecom industry network capabilities*

BILBAO, Spain — Open Source Summit Europe — September 19, 2023, The Linux Foundation, the nonprofit organization enabling mass innovation through open source, announced that its CAMARA project, an open source community addressing telco industry API interoperability, has graduated to a funded model.

@pardele





Structure

The structure of CAMARA consists of Sub Projects and Working groups

Within one Sub Project one API family is developed and maintained. Working groups span more than one (in most cases all) Sub Projects and cover overarching topics like maintaining an API Backlog or Commonalities (topics that are in common for all Sub Projects).

Each Sub Project is contained in a separate GitHub repository, while all working groups were together in one additional GitHub repository. In the "Governance" repository all regulations for the open source project are saved.

CAMARA Technical Steering Committee

The Technical Steering Committee is the oversight body for the technical CAMARA Project. The Technical Steering Committee currently consists of the following participants:

| Name | (Company) Role |
|----------------------------|--|
| Herbert Damker | (Deutsche Telekom AG) Active Maintainer, TSC chair |
| Eric Murray | (Vodafone) Active Maintainer, TSC deputy chair |
| Ludovic Robert | (Orange) Active Maintainer, TSC deputy chair |
| Adnan Saleem | (Radisys) End User Council representative |
| Chris Howell | (Vonage) Active Maintainer |
| Diego González Martínez | (Telefónica) Active Maintainer |
| Doug Makishima | (Summit Tech) End User Council representative |
| George Glass | TM Forum representative |
| Henry Calvert | GSMA representative |
| Jan Friman | (Ericsson) Active Maintainer |
| Jose Luis Urien | (Telefonica) Active Maintainer |
| Kevin Smith | (Vodafone) Active Maintainer |
| Mahesh Chapalamadugu | (Verizon) End User Council representative |
| Shilpa Padgaonkar | (Deutsche Telekom AG) Active Maintainer |
| Toshi (Toshiyasu) Wakayama | (KDDI) Active Maintainer |

The Technical Steering Committee meetings are held virtually, are open for the public and are scheduled each first Thursday in a month at 10am CE(s)T and every third Thursday in a month at 4pm CE(s)T time. You're welcome to join via: [Meeting link](#).

CAMARA Project on GitHub

Screenshot of the CAMARA Project page on GitHub (github.com/camaraproject).

The page shows the following details:

- Project Information:** CAMARA Project, 302 followers, Germany, http://camaraproject.org, adm@lists.camaraproject.org.
- Pinned Repositories:**
 - Governance** (Public) - 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 coun...
Star 47, Fork 35
 - WorkingGroups** (Public template) - Repository for the CAMARA Working Groups
Star 31, Fork 45
- Repositories:** Find a repository... (Search bar), Type, Language, Sort.
- WorkingGroups** (Public template) - Repository for the CAMARA Working Groups
Star 31, Fork 45, Issues 12, Pull Requests 11, Updated yesterday.
- DeviceStatus** (Public) - Repository to describe, develop, document and test the Device Status API family
Star 8, Apache-2.0 License, Fork 25, Issues 5, Pull Requests 3, Updated 2 days ago.
- IdentityAndConsentManagement** (Public)

People: This organization has no public members. You must be a member to see who's a part of this organization.

Top languages: Java, Gherkin, Go, Kotlin.

Footer: @pardel, monthly, Nov 2023, 31

github.com/camaraproject/WorkingGroups

camaraproject / WorkingGroups

Type ⌘ to search

Code Issues 12 Pull requests 11 Discussions Actions Projects 1 Wiki Security Insights

WorkingGroups Public template

Unwatch 36 Fork 45 Star 31

main 74 branches 0 tags Go to file Add file Code Use this template

MarkusKuemmerle Update WG_PARTICIPANTS.MD 6aea67d 3 days ago 958 commits

APIBacklog Update WG_PARTICIPANTS.MD 3 days ago

Commonalities Update WG_PARTICIPANTS.MD last week

Marketing Add files via upload 5 days ago

.gitignore Moved image files from working directory last year

GOVERNANCE.MD Create GOVERNANCE.MD last year

README.md Update main WG README.md 2 weeks ago

README.md

last commit last thursday issues 12 open pull requests 11 open contributors 39 repo size 150 MB License Apache 2.0

License CC BY 4.0

CAMARA Working Groups

Repository for the CAMARA Working Groups:

- API backlog
- Commonalities
- Marketing

About

Repository for the CAMARA Working Groups

Readme Activity 31 stars 36 watching 45 forks Report repository

Releases

No releases published [Create a new release](#)

Packages

No packages published [Publish your first package](#)

Contributors 40

+ 29 contributors

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API Proposals

The screenshot shows a GitHub repository interface for 'WorkingGroups / APIBacklog / documentation / SupportingDocuments / API proposals'. The left sidebar displays a file tree with categories like 'main', 'APIBacklog', 'documentation', 'MeetingMinutes', 'SupportingDocuments', and 'API proposals'. The main area lists 24 commits from 'jordonezlucena' with details such as file names, commit messages, and dates.

| Name | Last commit message | Last commit date |
|--|--|------------------|
| ... | | |
| APIFamilyproposal_Identity&Consent.md | Update APIFamilyproposal_Identity&Consent.md | 9 months ago |
| APIproposal_NumberVerification_DeustcheTelekom.md | Update API backlog directory (issue #88) | last year |
| APIproposal_AnonymisedSubscriberIdentifier_Vodafone.md | Update API backlog directory (issue #88) | last year |
| APIproposal_BlockchainPublicAddress_Telefonica.md | Update APIproposal_BlockchainPublicAddress_Telefonica.md | 6 months ago |
| APIproposal_CarrierBillingCheckOut_Telefonica.md | Update API backlog directory (issue #88) | last year |
| APIproposal_ClickToDial_ChinaMobile.md | Update APIproposal_ClickToDial_ChinaMobile.md | 2 months ago |
| APIproposal_DeviceIdentifier_Vodafone.md | Update API backlog directory (issue #88) | last year |
| APIproposal_HomeDevicesQoD_Telefonica.md | Update APIproposal_HomeDevicesQoD_Telefonica.md | last year |
| APIproposal_KYC-Fillin_MTNandKDDI.md | Create APIproposal_KYC-Fillin_MTNandKDDI.md | 3 months ago |
| APIproposal_KYC-Match_KDDI.md | Create APIproposal_KYC-Match_KDDI.md | 3 months ago |
| APIproposal_NetworkInsights_Verizon.md | Update APIproposal_NetworkInsights_Verizon.md | last month |
| APIproposal_NumberVerificationMS2FA_DeustcheTelekom.md | Update API backlog directory (issue #88) | last year |
| APIproposal_Sim Swap_DeustcheTelekom.md | Update API backlog directory (issue #88) | last year |
| APIproposal_Site to cloud (S2C) VPN.md | new API proposal- Site to cloud VPN | 2 months ago |
| APIproposal_Traffic Influence_TIM.md | removed TEF from traffic influence owners | last year |
| APIproposal_WebRTC_Telefonica.md | WebRTC API proposal | 2 months ago |
| Device Swap.md | Rename Device Swap to Device Swap.md | 2 weeks ago |
| IMEI Fraud.md | Update IMEI Fraud.md | last week |

CAMARA APIs

The screenshot shows a GitHub repository page for the CAMARA project. The page displays a list of repositories, each with a title, description, statistics, and a green line graph icon. The repositories listed are:

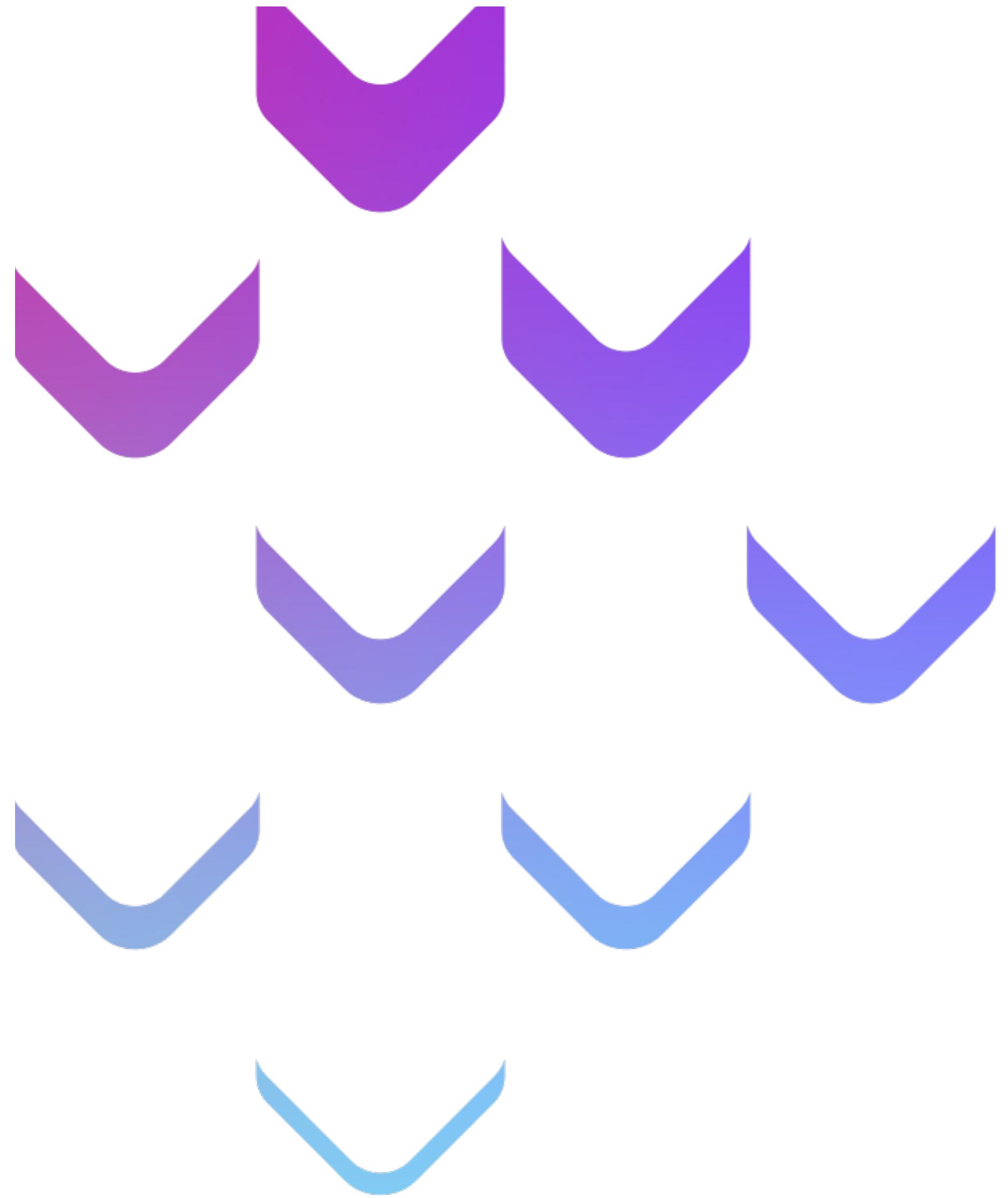
- WorkingGroups** [Public template] Repository for the CAMARA Working Groups. Stars: 31, Forks: 45, Issues: 12, Pull Requests: 11, Updated yesterday.
- DeviceStatus** [Public] Repository to describe, develop, document and test the Device Status API family. Stars: 8, Forks: 25, Issues: 5, Pull Requests: 3, Updated 2 days ago.
- IdentityAndConsentManagement** [Public] Repository to describe, develop, document and test the Identity and Consent Management API family. Stars: 6, Forks: 22, Issues: 8, Pull Requests: 3, Updated 2 days ago.
- Governance** [Public] 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. Stars: 47, Forks: 35, Issues: 10, Pull Requests: 3, Updated 2 days ago.
- Commonalities** [Public] Repository to describe, develop, document and test the Commonalities. Stars: 5, Forks: 12, Issues: 23, Pull Requests: 7, Updated 2 days ago.
- QualityOnDemand_PI1** [Public] Provider Implementation of QualityOnDemand by Deutsche Telekom. Stars: 2, Forks: 6, Issues: 1, Pull Requests: 0, Updated 2 days ago.
- SimSwap** [Public] Repository to describe, develop, document and test the Sim Swap API family. Stars: 13, Forks: 14, Issues: 7, Pull Requests: 3, Updated 2 days ago.

Demo

The screenshot shows a code editor interface with an OpenAPI specification file named `device-status.yaml`. The left sidebar contains a tree view of the API structure, including sections for GENERAL, PATHS, TAGS, OPERATION ID, SERVERS, and COMPONENTS. The `getRoamingStatus` operation under the `/roaming` path is selected. The main pane displays the YAML code for this operation, which includes a POST method, tags, summary, description, operationId, requestBody, responses, and examples. The code editor has syntax highlighting and a vertical scrollbar on the right.

```
OPENAPI
...
GENERAL
  openapi
  info
  tags
  externalDocs
PATHS
  /event-subscriptions
  /event-subscriptions/{event...}
  /notifications
  /roaming
TAGS
  Device roaming status
  Device status event subscri...
  Notification Callback
OPERATION ID
  createDeviceStatusEventSub...
  deleteEventSubscription
  getRoamingStatus
  postNotification
  retrieveEventSubscription
  retrieveEventSubscriptionList
SERVERS
  {apiRoot}/{basePath}
COMPONENTS
  examples
  responses
  schemas
DeviceStatus > code > API_definitions > device-status.yaml > {} paths > {} /roaming > {} post
87  post:
88    Try it | Audit
89    tags:
90      - Device roaming status
91    summary: "Get the current roaming status and the country information"
92    description: Get the current roaming status and the country information
93    operationId: getRoamingStatus
94    requestBody:
95      content:
96        application/json:
97          schema:
98            $ref: "#/components/schemas/RequestRoamingStatus"
99          required: true
100     responses:
101       200:
102         description: Contains information about current roaming status
103         content:
104           application/json:
105             schema:
106               $ref: "#/components/schemas/RoamingStatusResponse"
107             examples:
108               No-Country-Code:
109                 value:
110                   roaming: true
111                   countryCode: 901
112                   countryName: []
113               Single-Country-Code:
114                 value:
115                   roaming: true
116                   countryCode: 262
117                   countryName: ["DE"]
118               Multiple-Country-Codes:
119                 value:
```

Real-world implementations





Silent Authentication

VONAGE DEVELOPER

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VERIFY API

OVERVIEW

DISCOVER & TEST

BUILD YOUR SOLUTION

Getting Started

Guides

Overview

Verify Migration Guide

Verify API Webhooks

Verify V2 Anti-Fraud System

Network Unblock API

Using WhatsApp Interactive with Verify V2

Silent Authentication

Using the Silent Authentication Sandbox

Silent Authentication

Silent Authentication uses a mobile phone's Subscriber Identity Module (SIM) to prove a user's identity, without any user input. This guide will explain what it is, how it works, and how it can be used with [Verify V2](#).

What is Silent Authentication?

Once a user has entered their login credentials, Silent Authentication proves a user's identity by checking information from their SIM against their carrier's records to ensure that their phone number is active and genuine. Once a request has been verified, you are able to continuously authenticate the user until either the request expires or it is cancelled by the user. As with any authentication method, there are advantages and disadvantages to this approach:

Advantages

- Minimal user input** - Silent Authentication is very user friendly; once the user has entered their credentials, the authentication process happens in the background. There are no OTP codes to input, making the process as frictionless as possible.
- No phishing** - By moving authentication directly between the carrier and the mobile device, the threat of phishing via SMS is removed.

Disadvantages

- The user must own a mobile device** - Silent Authentication needs the user to authenticate from a mobile device, which they may not always have.
- A cellular network connection is required** - Silent Authentication relies on a verified GSM response from the device to prove its credentials, which is not sent if the user is connected to Wi-Fi. The user must therefore trigger the authentication request using cellular data. You can use our [SDKs](#) to help force a mobile connection.

Using Silent Authentication with Verify V2

Silent Authentication is available in V2 of the Verify API, and can work both synchronously and asynchronously (using webhooks).

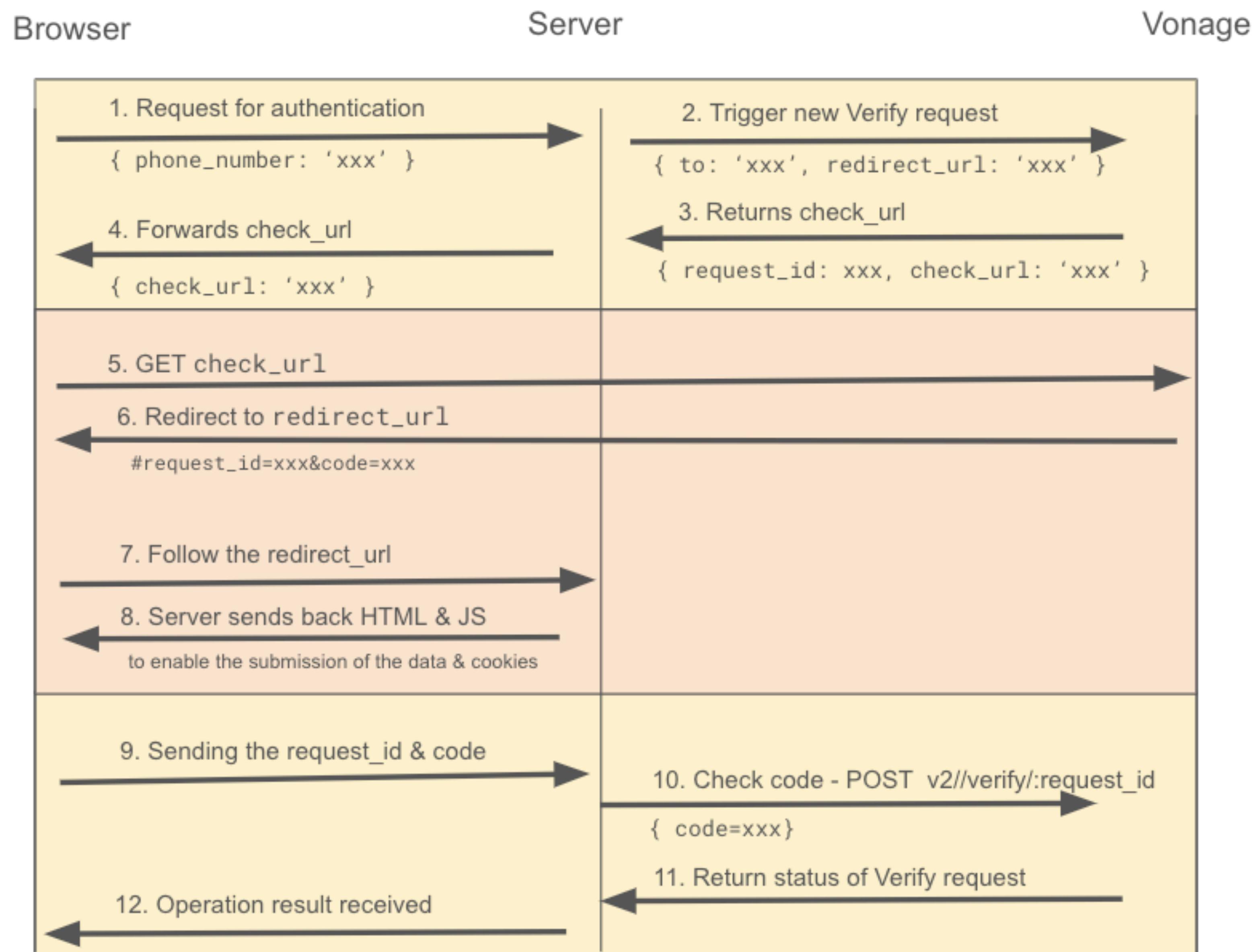
NAVIGATION

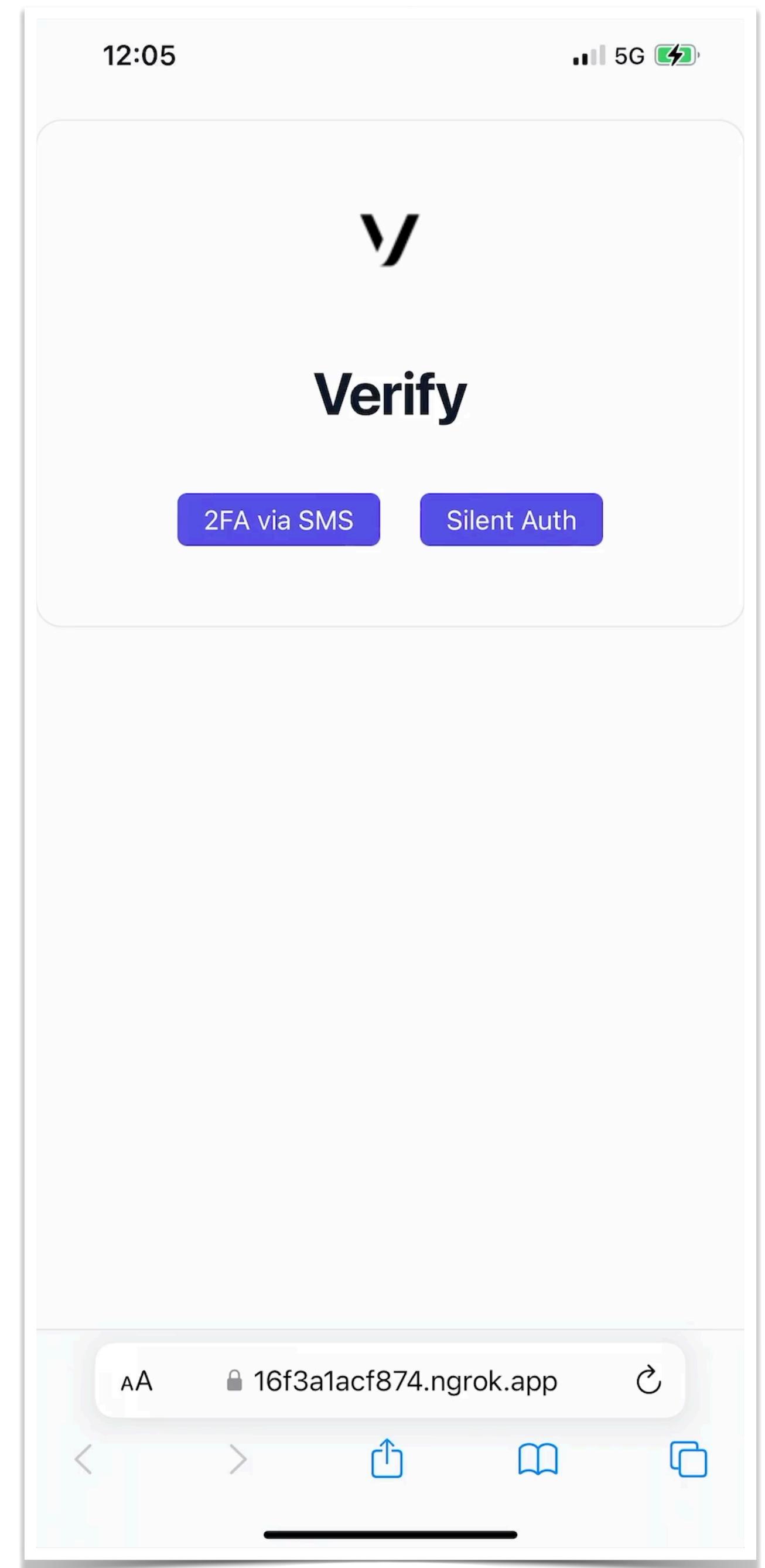
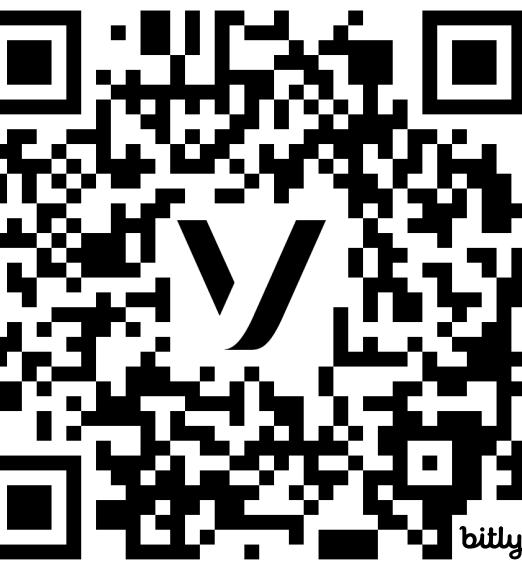
Silent Authentication

What is Silent Authentication?
Advantages
Disadvantages

Using Silent Authentication with Verify V2
Synchronous Implementation
Asynchronous Implementation

Android and iOS SDKs
Available Territories





Boost Network Connection

The screenshot shows the Xcode interface with the following details:

- Project Navigator:** Shows the project structure under "BoostTutorial".
- Editor:** Displays the code for `ViewController+Boost.swift`. The code uses Swift's `@objc` annotation to expose a `boost()` function. This function performs an asynchronous network call to the Vonage API to create a boost. It handles device-specific information (MSISDN) and solution-specific information (destination CIDR). It also handles API call body creation, including channels, source, destination, and profile.
- Utilities Navigator:** Shows the "Identity and Type" settings for the selected file. It indicates the file is a "Default - Swift Source" located in "Relative to Group" at `/Users/paul/Desktop/BoostTutorial/BoostTutorial/ViewController+Boost.swift`.
- Text Editor:** Shows the code with syntax highlighting and line numbers. The code is as follows:

```
import UIKit

extension ViewController {

    @objc func boost() {
        DispatchQueue.global(qos: .userInteractive).async {
            // device specific info - make sure to replace with your number
            let msisdn = "447700900000"
            guard let deviceIp = self.getIPAddress() else { return }

            // solution specific info
            let destinationCidr = "192.168.1.1/32"

            // API call body
            let body = """
                "msisdn": "\u{msisdn}",
                "duration": "PT2H",
                "channels": [
                    {
                        "source": {
                            "ip": "\u{deviceIp}"
                        },
                        "destination": {
                            "cidr": "\u{destinationCidr}"
                        },
                        "profile": "VIDEO"
                    }
                ]
            """
            guard let url = URL(string: "https://api-eu.vonage.com/v1/boost/boosts") else {
                print("Invalid Boost URL"); return
            }
        }
    }
}
```

| | | | | |
|---|--|----------------------------------|---|---------------------|
| Device Status | Edge Cloud | Click to Dial | Identity And Consent Management | |
| Carrier Billing Check Out | Site to Cloud | Age Verification | Number Verification | |
| OTP Validation | Home Location Verification | Network Slicing | Network Insights | |
| Device Location | Dynamic People Density Information | WebRTC | Traffic Influence | |
| Sim Swap | Device Identifier | Blockchain Public Address | Know Your Customer | |
| Quality on Demand | IMEI Fraud | Device Swap | Home Devices Quality on Demand | |
| Device Visit Location | Home Location Verification | Region User Count | | TBD |

Current Repository: SimSwap

Current Branch: main

Last fetched just now

Merge pull request #80 from fernandopradolobrillo/subscription-fixes

Fernando Prado Cabrillo · 91c7f36 · 1 changed file · +40 -61

minor corrections and error alignment

code/API_definitions/sim-swap-notification-subscription.yaml

```

parameters:
  name: subscriptionId
  in: path
  description: Subscription identifier that was obtained from the create subscription operation
  required: true
  schema:
    $ref: '#/components/schemas/SubscriptionId'
  - $ref: '#/components/parameters/SubscriptionId'

responses:
  "200":
    description: OK
  ...
  @@ -197,24 +195,7 @@ paths:
    schema:
      $ref: '#/components/schemas/SubscriptionInfo'
  "400":
    description: Invalid input
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/ErrorInfo'
        examples:
          Generic400:
            summary: Schema validation failed
            value:
              code: INVALID_INPUT
              status: 400
              message: "Schema validation failed at ..."
              subscriptionIdRequired:
                summary: eventSubscription id is required
                value:
                  code: INVALID_INPUT
                  status: 400
                  message: "Expected property is missing: subscriptionId"
  ...
  @@ -222,11 +203,7 @@ paths:
    "401":
      $ref: '#/components/responses/Generic401'
    "403":
      ...
      @@@ -222,11 +203,7 @@ paths:
        "404":
          $ref: '#/components/responses/Generic404'
        "500":
          ...

```

THANK YOU!

Paul Ardeleanu

Senior Manager, Developer Relations



x.com/pardel

github.com/pardel/presentations

