



# CAMARA

THE TELCO GLOBAL API ALLIANCE

## Meta-release Fall 24

Release Management Working Group, 2024-09-12

# Release Management Motivation and Benefits



- A **CAMARA Meta-release** combines a set of CAMARA API versions into a **consistent** release.
- There will be **two meta-releases per year** (in spring and fall).
  - Network operator can plan their implementations and deployments in production.
  - API consumers can plan the integration in their platform and applications.
- All API versions in a meta-release **fulfill defined quality criteria** and are **compliant to current CAMARA guidelines** like from CAMARA Commonalities and Identity and Consent Management.
- **CAMARA Meta-releases** ensure the
  - Availability of consistent API definitions (by use of guidelines, templates, and linting),
  - Quality of API definitions (by use of checklists, test definitions, and release management),
  - Stability of API definitions (clear criteria for stable versus initial API versions) and
  - Reliability of schedule and deliverables (with defined milestones and release candidates).
- **CAMARA Meta-releases** provide the foundation for API version management in production.

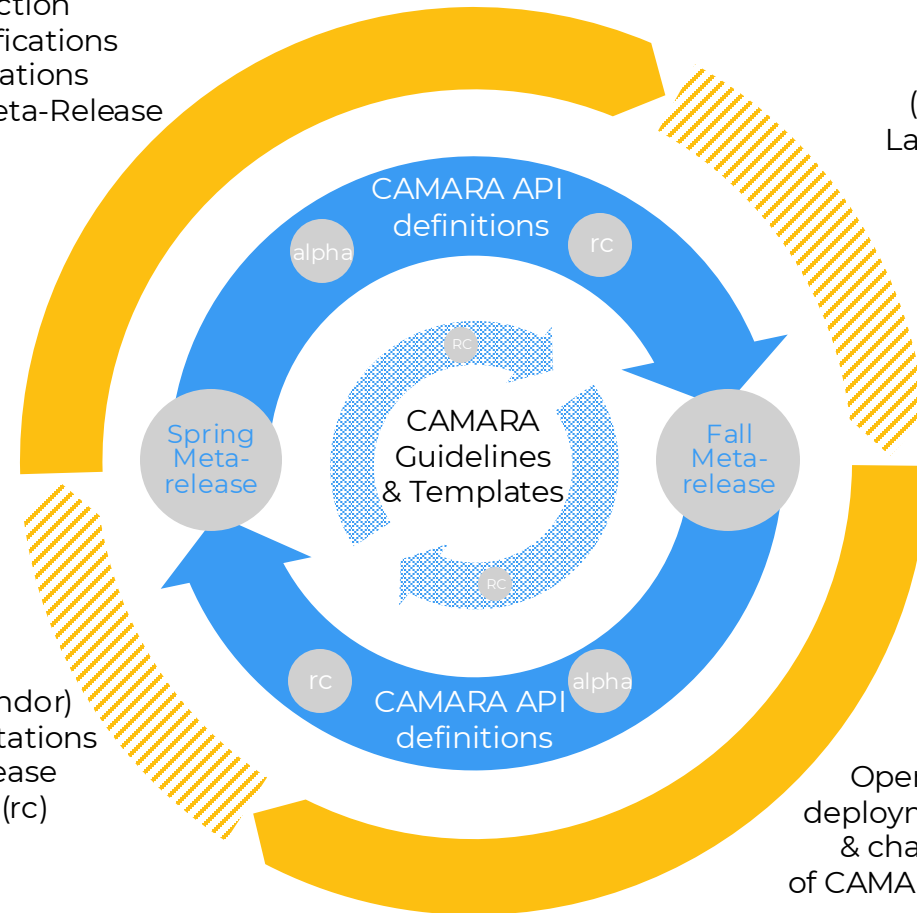
# Release Management Release Cycle



**CAMARA**  
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- 2 releases each year
  - Fall (in September)
  - Spring (in March)
- Continuous and overlapping cycles
  - Update of CAMARA guidelines
  - Development and updates of API definitions in CAMARA
  - Lab implementations and production deployments at network operators
- Tests of API release candidates
  - Within operator (lab) implementations
  - Based on CAMARA test definitions
- Feedback in all phases
  - From (lab) implementations and deployments to CAMARA API definitions and guidelines
  - From API definition work to CAMARA guidelines

Operator production  
deployments, certifications  
& channel integrations  
of CAMARA Spring Meta-Release



(Operator/Vendor)  
Lab implementations  
& tests of release  
candidates (rc)

Operator production  
deployments, certifications  
& channel integrations  
of CAMARA Fall Meta-Release

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

# Meta-release Fall 2024



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Stable CAMARA APIs (v1.0.0)  
Previous versions launched in at least one market<sup>1</sup>



**Number  
Verification**



**OTP<sup>1</sup> (SMS)  
Validation**



**Location  
Verification**



**Sim  
Swap**



**Simple Edge  
Discovery**

Updated initial CAMARA APIs (v0.y.z)  
Previous versions launched in at least one market<sup>1</sup>



**Carrier  
Billing**



**Device  
Roaming Status**



**Device  
Reachability Status**



**KYC<sup>3</sup>  
Match**



**KYC<sup>3</sup>  
Fill-In**



**Location  
Retrieval**



**Home  
Devices QoD**



**QoS  
Profiles**



**Quality on  
Demand**

New initial APIs (v0.y.z)

**Application  
Profiles**

**Call Forwarding  
Signal**

**Carrier  
Billing Refund**

**Connectivity  
Insights**

**Population  
Density Data**

**QoD  
Provisioning**

New initial APIs to subscribe for event notifications in CloudEvents format (v0.y.z)

**Connectivity Insights**  
Subscriptions

**Device Reachability**  
Status Subscriptions

**Device Roaming**  
Status Subscriptions

**Geofencing**  
Subscriptions

**SIM Swap**  
Subscriptions

<sup>1</sup> Source: <https://www.open-gateway.com/operators-map> and <https://wiki.camaraproject.org/display/CAM/Meta-release+Fall24>

<sup>2</sup> OTP = One Time Password

<sup>3</sup> KYC = Know Your Customer

# Beyond Fall24 Meta-release – Upcoming APIs



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## Upcoming APIs Work in progress or newly started

Age Verification (KYC <sup>1</sup> )	Application Endpoint Discovery (Edge Cloud)	Blockchain Public Address	Click To Dial	Device Data Volume (Device Status)
Device Identifier	Device Quality Indicator (Device Status)	Device Swap	Edge Application Management (Edge Cloud)	Network Access Management (Home Devices)
Network Slice Booking	Number Recycling (KYC <sup>1</sup> )	Most Frequent Location (Location Insights)	Region Device Count	Short Message Service
Site to Cloud VPN	Subscription Status (KYC <sup>1</sup> )	Tenure (KYC <sup>1</sup> )	Traffic Influence (Edge Cloud)	Verified Caller
				WebRTC – BYON <sup>2</sup>



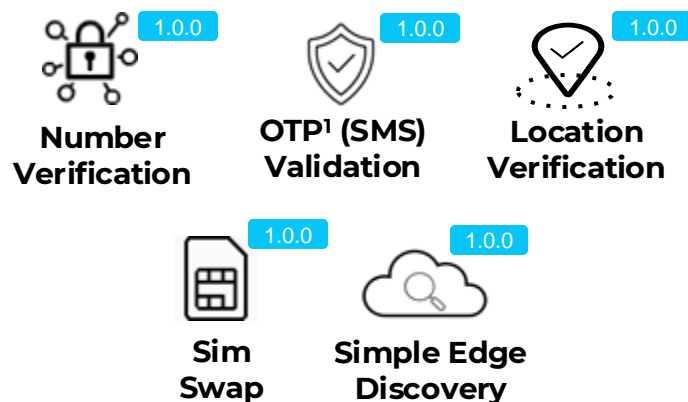
The background is a vibrant blue gradient. It features a complex network of white lines forming a mesh or web-like structure, particularly prominent in the upper left. Scattered throughout are various digital motifs, including binary code (0s and 1s) and stylized representations of data packets or server racks, some appearing as glowing rectangles. The overall aesthetic is high-tech and futuristic.

# Backup

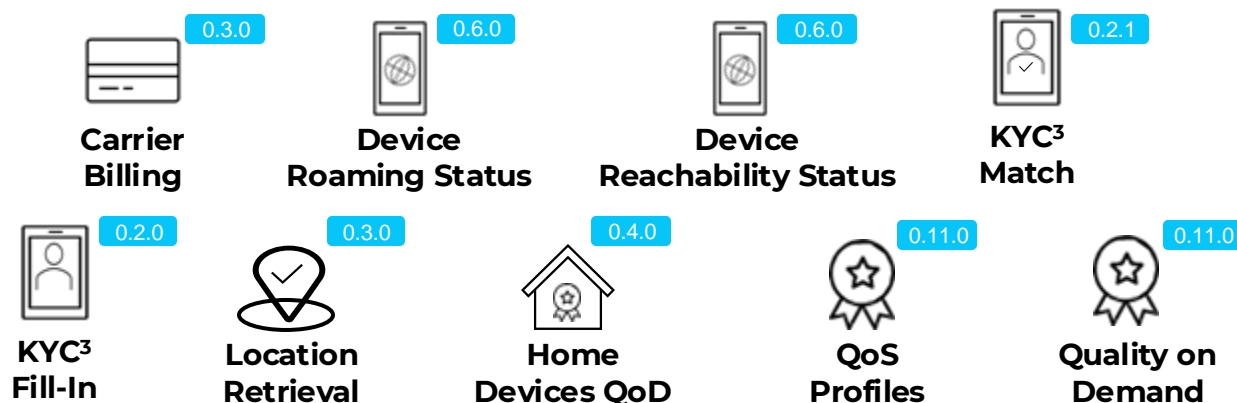
# Meta-release Fall 2024



## Stable CAMARA APIs (v1.0.0) Previous versions launched in at least one market<sup>1</sup>



## Updated initial CAMARA APIs (v0.y.z) Previous versions launched in at least one market<sup>1</sup>



## New initial APIs (v0.y.z)



## New initial APIs to subscribe for event notifications in CloudEvents format (v0.y.z)



<sup>1</sup> Source: <https://www.open-gateway.com/operators-map> and <https://wiki.camaraproject.org/display/CAM/Meta-release+Fall24>

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# Release Management

## API List Fall24 Meta-release



- **Stable APIs (v1.0.0), with previous API versions implemented by network operators:**  
Location Verification, Number Verification, One-time Password SMS, Simple Edge Discovery, SIM Swap
- **Updated initial CAMARA APIs (v0.y.z), previous versions implemented by network operators:**  
Carrier Billing, Device Reachability Status, Device Roaming Status, Home Devices QoD, KYC Fill-In, KYC Match, Location Retrieval, Qos Profiles, Quality-on-Demand
- **New initial APIs (v0.y.z), ready for first implementations by network operators:**  
Application Profiles, Call Forwarding Signal, Carrier Billing Refund, Connectivity Insights, Population Density Data, QoD Provisioning
- **New initial APIs (v0.y.z) to subscribe for event notifications in CloudEvents format:**  
Connectivity Insights Subscriptions, Device Reachability Status Subscriptions, Device Roaming Status Subscriptions, Geofencing Subscriptions, SIM Swap Subscriptions