



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.

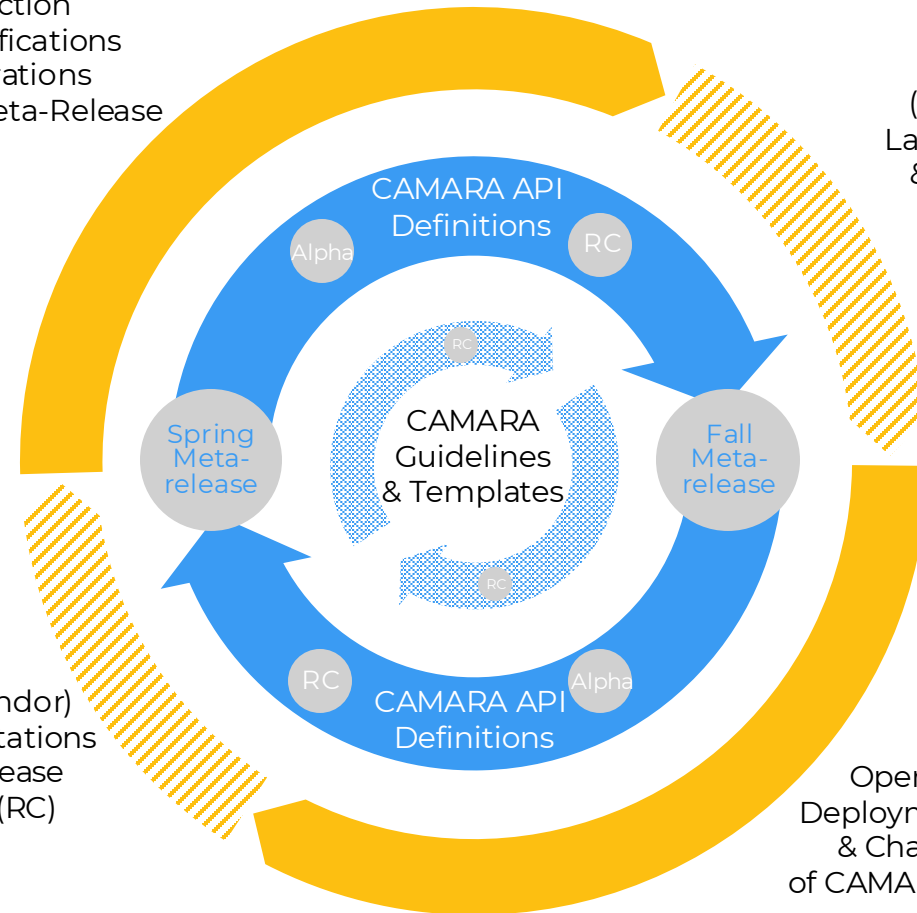
Release Management Release Cycle



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- 2 releases each year
 - Fall Release ~ September
 - Spring Release ~ 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/Vendor)
Lab Implementations
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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 market¹



Number Verification



OTP¹ (SMS) Validation



Location Verification



Sim Swap



Simple Edge Discovery

Updated initial CAMARA APIs (v0.y.z)
Previous versions launched in at least one market¹



Carrier Billing



Device Roaming Status



Device Reachability Status



KYC³ Match



KYC³ 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

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

² OTP = One Time Password

³ KYC = Know Your Customer

Beyond Meta-release – Upcoming APIs



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Upcoming APIs Work in progress or newly started

Age Verification
(KYC¹)

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
(KYC¹)

Most Frequent Location
(Location Insights)

Region
Device Count

Short Message
Service

Site to Cloud
VPN

Subscription Status
(KYC¹)

Tenure
(KYC¹)

Traffic Influence
(Edge Cloud)

Verified
Caller

WebRTC –
BYON²








Backup

Meta-release Fall 2024

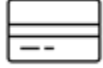










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Stable CAMARA APIs (v1.0.0)
Previous versions launched in at least one market¹

 Number Verification 1.0.0	 OTP¹ (SMS) Validation 1.0.0	 Location Verification 1.0.0
 Sim Swap 1.0.0	 Simple Edge Discovery 1.0.0	

Updated initial CAMARA APIs (v0.y.z)
Previous versions launched in at least one market¹

 Carrier Billing 0.3.0	 Device Roaming Status 0.6.0	 Device Reachability Status 0.6.0	 KYC³ Match 0.2.1	
 KYC³ Fill-In 0.2.0	 Location Retrieval 0.3.0	 Home Devices QoD 0.4.0	 QoS Profiles 0.11.0	 Quality on Demand 0.11.0

New initial APIs (v0.y.z)

Application Profiles 0.3.0	Call Forwarding Signal 0.2.0	Carrier Billing Refund 0.1.0	Connectivity Insights 0.4.0	Population Density Data 0.1.1	QoD Provisioning 0.1.0
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New initial APIs to subscribe for event notifications in CloudEvents format (v0.y.z)

Connectivity Insights Subscriptions 0.4.0	Device Reachability Status Subscriptions 0.6.0	Device Roaming Status Subscriptions 0.6.0	Geofencing Subscriptions 0.3.0	SIM Swap Subscriptions 0.1.0
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² OTP = One Time Password

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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