



**CAMARA**  
THE TELCO GLOBAL API ALLIANCE

# All Hands Call

October 12th 2023

# Agenda



- 1 Welcome new participants
- 2 TSC Updates
- 3 CAMARA Fund Updates
- 4 Changes in CAMARA administration
- 5 Status Sub Projects and Working Groups
- 6 AOB

Welcome new participants  
CAMARA resources



Subscribe to  
[all+subscribe@  
lists.camaraproject.org](mailto:all+subscribe@lists.camaraproject.org)  
to start contributing



last commit yesterday issues 1 open pull requests 2 open contributors 53 repo size 60.6 MB License Apache 2.0

[Mission statement](#) • [Project Charter](#) • [Code of Conduct](#) • [Working Language](#) • [Steering Committee](#) • [Documentation](#) • [Support and Feedback](#) •  
[Contribute](#) • [Contributors](#) • [Licensing](#)

<https://github.com/camaraproject/Governance>



<https://camaraproject.org/>

# Welcome new participants

## CAMARA figures



17	API families / Sub Projects
3	Working Groups
84 (80)	Companies in the CAMARA logo list
266 (251)	Companies participating in CAMARA
811 (761)	People joined CAMARA
143 (142)	Companies interested & invited to join
816 (805)	People interested & invited to join



# TSC Updates



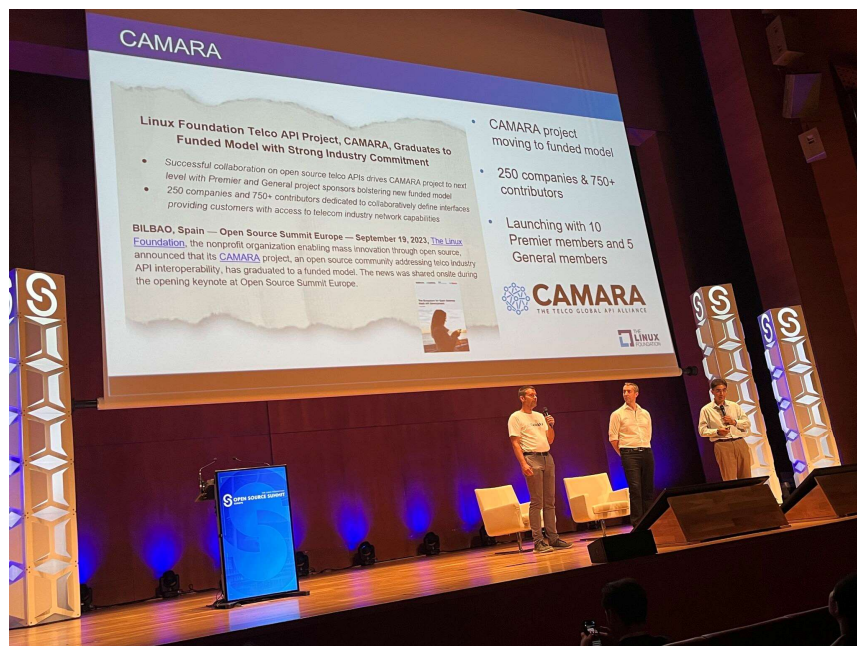
- Regular meetings on first and third Thursday of each month (with alternating time)
- API Proposals reviews/approvals:
  - New sub projects: ClickToDial, KnowYourCustomer, WebRTC created
  - “IMEI Fraud” first to be worked on in Device Identifier sub project (same resource)
  - “Device Swap” needs an appropriate API family / category assigned
  - “Network Insights” as new proposal under review
- New Event structure based on CloudEvents now in CAMARA Design Guidelines
- Decision taken to host no private repositories in CAMARA
- Next TSC meeting (Oct 19th with focus on Release Management related topics/issues
  - see <https://github.com/camaraproject/Commonalities/issues/67> for an overview

Minutes in: <https://github.com/camaraproject/Governance/tree/main/documentation/MeetingMinutes/TSC>

# CAMARA Fund Updates



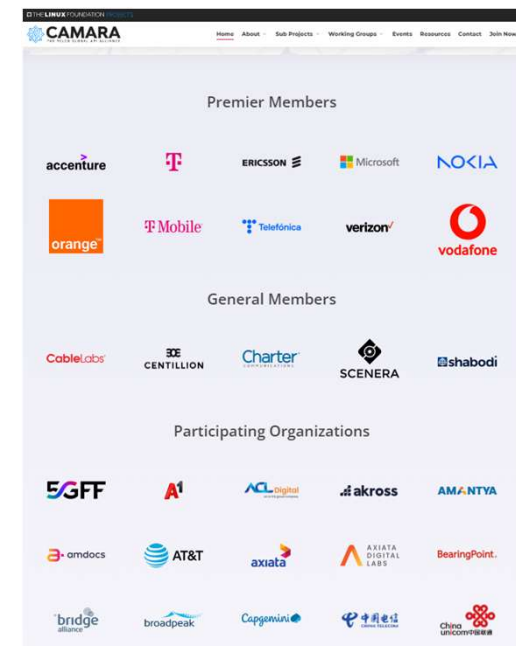
**CAMARA**  
THE TELCO GLOBAL API ALLIANCE



Announcement at LF Open Source Summit Europe in Bilbao



Fireside chat



Update of Logo page

# Changes in CAMARA administration



Changes are happening for the CAMARA Project with the goal of ensuring full participation of all members!

- Create your Linux Foundation ID & set up your [Individual Dashboard](#).
- Join our [mailing Lists](#) and [Slack](#) to participate and stay in the loop about new CAMARA updates.
- The CAMARA Wiki
  - The Confluence wiki will be the new home for Community Meeting and General Project information can be found.
  - The wiki also provides an amazing [Getting Started](#) with CAMARA guide!
  - Information about all the CAMARA Sub Projects, Technical Steering Committee, All Hands & the Marketing Working Group can also be found there.
  - <https://wiki.camaraproject.org/>

# Changes in CAMARA administration



- Community meetings are migrating to Zoom starting in November
  - This is a huge change for the community and we want to encourage you all to setup a LF ID. This allows you to more easily track and participate in meetings from your [Individual Dashboard](#).
  - My Meetings tab: This provides information and gives you a list of upcoming and past meetings. My Meetings also allows you to view past meeting recordings and transcript copies of the meetings that you have registered for.
- EasyCLA
  - LFX EasyCLA streamlines the contribution process for open source projects that use contributor license agreements, by streamlining workflows for project maintainers, contributors, and organizations whose employees are contributing to the project.
    - [Learn more about EasyCLA](#)
    - [Configure your CLA Console](#)



# Changes in CAMARA administration



- Organizational Dashboard
  - The Org Dashboard is your central hub for managing all open source activities, from project contributions, employee training, and event attendance to membership renewals and new opportunities.
  - [Learn more about the Org Dashboard](#)
  - [View your Organization Dashboard](#) (LF Member Organizations only)
- LF Insights
  - Identify opportunities to grow your community and monitor open source ecosystem trends, compare projects and easily understand project health.
  - [Learn more about Insights](#)
  - CAMARA Insights metrics will be available by the end of October
- If you are a Technical Contributor, it's encouraged that you link your GitHub on your [Individual Dashboard](#)
  - If you use an alternate email for tech contributions, we strongly recommend that this is added to your profile.

# Changes in CAMARA administration



## How to get help:

- LF Toolchain Support
  - Each Project has its own set of tools that have been chosen by that particular community and while there are ongoing efforts to standardize where possible across the LFN, one size does not fit all.
  - [support.linuxfoundation.org](https://support.linuxfoundation.org)
- LFX Community Forums
  - We are here to empower open source communities and establish, maintain, and scale our open source ecosystems.
  - Find LFX Product Roadmaps, Quick Start Guides, Onboarding Videos, and great Community members here!
  - <https://community.lfx.dev/>
- Still unsure of how to proceed?
  - Reach out to Casey Cain [ccain@linuxfoundation.org](mailto:ccain@linuxfoundation.org) and Evan Harrison [eharrison@linuxfoundation.org](mailto:eharrison@linuxfoundation.org) for additional inquiries.

# Status Sub Projects & Working Groups

## BlockchainPublicAddress



Scope, Meetings, Mailing list:

<https://github.com/camaraproject/BlockchainPublicAddress>

Deliverable	R/O	Current status/ Achievements
API Definition	R	Initial release generated: <a href="#">v0.1.0</a> Next API version will focus: <ul style="list-style-type: none"> <li>- Alignment with Commonalities tracks (e.g. securitySchemes, scopes naming,...)</li> <li>- Adopting output of resolved issues</li> </ul>
API doc/user stories/testcases	R	API Doc <ul style="list-style-type: none"> <li>• Full API documentation pending to be consolidated under API Spec</li> </ul> <a href="#">Use Cases</a> - First version available Some refinements and enhancements probably required
Implementation	R	Not yet
API Reviews and extensions	O	Some points under discussion: <ul style="list-style-type: none"> <li>- <a href="#">Issue#19</a> - Model for blockchain types and Identification</li> <li>- <a href="#">Issue #16</a> - Discussion about consent management considerations in retrieval of blockchain public addresses</li> </ul>

# Status Sub Projects & Working Groups

## CarrierBillingCheckOut



Scope, Meetings, Mailing list:

<https://github.com/camaraproject/CarrierBillingCheckOut>

Deliverable	R/O	Current status/ Achievements
API Definition	R	API spec: <ul style="list-style-type: none"><li>Working in <a href="#">v0.2.0 proposal</a>. Next steps:<ul style="list-style-type: none"><li>Alignment with Commonalities tracks (Notifications, Security Schemas, description for date-time fields, adding description info within API Spec...)</li><li>Full API documentation within API Spec</li><li>Enhancements derived from open issues</li></ul></li></ul>
API doc/user stories/testcases	R	API Doc <ul style="list-style-type: none"><li>Full API documentation pending to be consolidated under API Spec</li></ul> <a href="#">Use Cases</a> - First version available
Implementation	R	Not yet
API Reviews and extensions	O	Several Open Issues, listed <a href="#">here</a> : <ul style="list-style-type: none"><li>Mainly focused in Commonalities alignment and features enhancements</li></ul> Next features after reaching a stable specification points to be: <ul style="list-style-type: none"><li>refunds</li><li>recurrent payments</li></ul>



# Status Sub Projects & Working Groups

## ClickToDial



**CAMARA**  
THE TELCO GLOBAL API ALLIANCE

Scope, Meetings, Mailing list: <https://github.com/camaraproject/ClickToDial>

Deliverable	R/O	Current status/ Achievements
API Definition	R	
API doc/user stories/testcases	R	
Implementation	R	
API Reviews and extensions	O	

# Status Sub Projects & Working Groups Commonalities



Scope, Meetings, Mailing list:

<https://github.com/camaraproject/Commonalities>

Deliverable	Current status/ Achievements
Documents	API Design Guidelines: <ul style="list-style-type: none"><li>• updated with use of <b>callbacks</b> &amp; CloudEvents format of notifications</li><li>• HTTP HEAD option removed</li><li>• added restrictions on use of reserved words (for API Generators)</li></ul>
PRs	Update OpenAPI security in API Design Guidelines: <b>scope</b> naming, <b>securitySchemes</b> , <b>security</b> property Define CAMARA Event using CloudEvents in OAS notification: <b>notification-as-cloud-event.yaml</b>
New Issues	Consolidation of open points related to <b>release management</b> ( <a href="#">#67</a> ) Improve README.md for easy discovery of Commonalities artifacts ( <a href="#">#70</a> )
Announcements	Discussion on OAS linting ruleset <b>/code/Test_definitions</b> folder for API tests in each subproject Change of time slot for Commonalities call

# Status Sub Projects & Working Groups

## DeviceIdentifier



Scope, Meetings, Mailing list: <https://github.com/camaraproject/DeviceIdentifier>

Deliverable	R/O	Current status/ Achievements
API Definition	R	<b>Draft version 0.1.0 available</b> <ul style="list-style-type: none"><li>• Mobile subscriber identifier(s) now passed via POST body rather than GET headers</li></ul> No releases yet, waiting for agreement on: <ul style="list-style-type: none"><li>• Scope definitions and security scheme (<a href="#">Issue #30</a>)</li></ul>
API doc/user stories/testcases	R	Documentation embedded within v0.1.0
Implementation	R	No implementations yet available
API Reviews and extensions	O	None

# Status Sub Projects & Working Groups

## DeviceLocation



Scope, Meetings, Mailing list: <https://github.com/camaraproject/DeviceLocation>

Deliverable	R/O	Current status/ Achievements
API Definition	R	<ul style="list-style-type: none"> <li>Stable version: 1 API: location-verification <a href="#">v0.1.0</a></li> <li>WIP versions, 3 APIs: <ul style="list-style-type: none"> <li>location-verification <a href="#">v0.2.0</a>, extending input to Area and enhancing response details, to be released in the next weeks.</li> <li>location-retrieval <a href="#">v0.1.0</a>, returning device location.</li> <li>geofencing <a href="#">v0.1.0 (still PR)</a>, subscription to devices entering or leaving some area.</li> </ul> </li> </ul>
API doc/user stories/testcases	R	<ul style="list-style-type: none"> <li>All API documentation consolidated within spec.</li> <li>Waiting for agreements in Commonalities regarding testing.</li> </ul>
Implementation	R	Not yet
API Reviews and extensions	O	<p>Issues and PRs under discussion:</p> <ul style="list-style-type: none"> <li>Geofencing, being updated to CloudEvents model</li> <li><a href="#">New geometries</a> for location-retrieval: polygon, maybe others</li> <li><a href="#">Discussion</a> on how to calculate verificationResult and matchRate</li> <li>Support for new geometries (Administrative Code...), after <a href="#">requirements coming from GSMA</a></li> </ul>



# Status Sub Projects & Working Groups

## DeviceStatus



Scope, Meetings, Mailing list: <https://github.com/camaraproject/DeviceStatus>

Deliverable	R/O	Current status/ Achievements
API Definition	R	<ul style="list-style-type: none"> <li>Stable version – v0.4.1               <ul style="list-style-type: none"> <li>Country and country code in roaming</li> </ul> </li> <li>V0.5.0 WIP, planned for October 2023 (switching to CloudEvents)               <ul style="list-style-type: none"> <li>notification/subscription for Device Status with event-subscriptions aligned to Design Guidelines (based on CloudEvents)</li> <li>New Endtype Connectivity =&gt; PR#69</li> <li>Add documentation into API definition =&gt; PR#75</li> </ul> </li> </ul>
API doc/user stories/testcases	R	API documentation updated
Implementation	R	No implementation available yet
API Reviews and extensions	O	Issues and PRs under discussion: <ul style="list-style-type: none"> <li>Added Notification management aligned with CloudEvents format PR#75</li> <li>/connectivity - endpoint to check the network status of a device PR#69</li> </ul>

# Status Sub Projects & Working Groups

## EdgeCloud



Scope, Meetings, Mailing list: <https://github.com/camaraproject/EdgeCloud>

Deliverable	R/O	Current status / Achievements
API Definition	R	<ul style="list-style-type: none"><li>For Traffic Influence: v0,9</li><li>For Edge Discovery and app LCM APIs, it was decided to create 3 different APIs: Discovery API, Resource management API and Workload Orchestration API.</li></ul> First release of Discovery API v 0.9.1.
API doc/user stories/testcases	R	<ul style="list-style-type: none"><li>Traffic Influence: API documentation and user stories contributed. API test cases: drafted Gherkin feature. Security review done.</li><li>Edge Discovery: API documentation and user stories contributed. API test cases: contributed Gherkin feature. Security review: Pending (no consent required)</li></ul>
Implementation	R	TI: Under Validation by TIM Edge Discovery: Partly validated (tested in two distinct Vodafone markets)
API Reviews and extensions	O	Work in progress for first version of Resource management and Workload Orchestration APIs

# Status Sub Projects & Working Groups

## HomeDevicesQoD



Scope, Meetings, Mailing list: <https://github.com/camaraproject/HomeDevicesQoD>

Deliverable	R/O	Current status/ Achievements
API Definition	R	- <a href="#">current API version v0.2.0</a> ready to be proposed as candidate to become v1.0.0 as the first stable API release, no further functionality will be added for the time being.
API doc/user stories/testcases	R	- <a href="#">Test definitions</a> have been merged and are available in the repository. - According to existing rules, API need to be tested by at least 2 operators. This is current limitation to generate 1.0
Implementation	R	N/A
API Reviews and extensions	O	N/A

# Status Sub Projects & Working Groups

## IdentityAndConsentManagement



Scope, Meetings, Mailing list:

<https://github.com/camaraproject/IdentityAndConsentManagement>

Deliverable	R/O	Current status / Achievements
API Definition	R	N/A yet.  If identified, a proposal will be made once core issues are clarified and closed.
API doc/user stories/testcases	R	- CAMARA APIs access and user consent management – <a href="#">document</a> work in progress - Authentication and Authorization Concept for Service APIs - <a href="#">document</a> (moved from Commonalities and updated)
Implementation	R	N/A yet
API Reviews and extensions	O	8 issues, 4 PRs <b>Identity related topics:</b> <ul style="list-style-type: none"> <li>Extend AuthN-AuthZ with network-based auth (<a href="#">#45</a>, <a href="#">PR #55</a>) &gt; CLOSED. Info added to documentation.</li> <li>Align securitySchemes in API specs (<a href="#">#57</a>) - update of API Design Guidelines &gt; Still under discussion, no agreement reached.</li> <li>Have we reached a final ruleset in defining the usage of 2 and 3 legged tokens (<a href="#">#72</a>) &gt; Under discussion.</li> </ul> <b>Consent related issues:</b> <ul style="list-style-type: none"> <li>The concept of purpose/scope (<a href="#">#32</a>) - important topic, extensive and long-lasting discussion on TEF, DT and ORA proposals; <a href="#">short-term agreement</a> reached by active issue participants (being documented in <a href="#">PR #75</a>). Final solution to be further discussed on separate issue/s.</li> <li>Definition of scenarios for consent management (<a href="#">#21</a>, PR#33 restored in PR #74)</li> </ul>



# Status Sub Projects & Working Groups

## KnowYourCustomer



Scope, Meetings, Mailing list: <https://github.com/camaraproject/KnowYourCustomer>

Deliverable	R/O	Current status/ Achievements
API Definition	R	- Work in progress; Repository and Mailing list have been set up, Regular meetings are being set up - NOTE: Subproject has Two APIs, KYC Match and KYC Fill-in
API doc/user stories/testcases	R	- Work in progress
Implementation	R	- Not yet
API Reviews and extensions	O	- N/A

# Status Sub Projects & Working Groups

## NumberVerification



Scope, Meetings, Mailing list: <https://github.com/camaraproject/NumberVerification>

Deliverable	R/O	Current status/ Achievements
API Definition	R	<a href="https://github.com/camaraproject/NumberVerification/blob/main/code/API_definitions/number_verification.yaml">https://github.com/camaraproject/NumberVerification/blob/main/code/API_definitions/number_verification.yaml</a>
API doc/user stories/testcases	R	Documentation integrated into YAML file
Implementation	R	N/A
API Reviews and extensions		<ul style="list-style-type: none"><li>• 5 issues, 2 PR</li><li>• PR #64 for Release version under evaluation</li></ul>

# Status Sub Projects & Working Groups

## OTPvalidationAPI



Scope, Meetings, Mailing list: <https://github.com/camaraproject/OTPvalidationAPI>

Deliverable	R/O	Current status/ Achievements
API Definition	R	<a href="https://github.com/camaraproject/OTPvalidationAPI/blob/main/code/API_definition/s/one-time-password-sms.yaml">https://github.com/camaraproject/OTPvalidationAPI/blob/main/code/API_definition/s/one-time-password-sms.yaml</a>
API doc/user stories/testcases	R	<a href="https://github.com/camaraproject/OTPvalidationAPI/blob/main/documentation/API_documentation/OTP_SMS_API.md">https://github.com/camaraproject/OTPvalidationAPI/blob/main/documentation/API_documentation/OTP_SMS_API.md</a>
Implementation	R	N/A
API Reviews and extensions	O	<ul style="list-style-type: none"><li>• no issues &amp; PR</li><li>• Release version v0.5.0</li></ul>

# Status Sub Projects & Working Groups

## Quality on Demand



Scope, Meetings, Mailing list: <https://github.com/camaraproject/QualityOnDemand>

Deliverable	R/O	Current status / Achievements
API Definition	R	<b>Current released version: <a href="#">v0.9.0</a></b> Third alpha version of QoD API with significant changes compared to v0.8.1, e.g. <ul style="list-style-type: none"> <li>• Introduced qosStatus and corresponding notification event</li> <li>• Added new methods to get service provider defined QoS Profile</li> <li>• Renamed properties to new terms agreed in CAMARA Commonalities</li> <li>• Updated method for identifying devices by IPv4</li> </ul>
API doc/user stories/testcases	R	Documentation now inline within API OAS, see <a href="#">Swagger Editor</a> / <a href="#">Redoc</a>
Implementation(s)	R	Three repositories for Provider Implementations (PI): <ul style="list-style-type: none"> <li>• <a href="#">QualityOnDemand_PI1</a> by Deutsche Telekom</li> <li>• <a href="#">QualityOnDemand_PI2</a> by Orange (<b>updated for v0.9.0</b>)</li> <li>• <a href="#">QualityOnDemand_PI3</a> by Spry Fox Networks</li> </ul>
API Reviews and extensions	O	<b>V0.10.0 work in progress</b> – linting introduced, align event notification with CloudEvents spec ( <a href="#">PR #224</a> ), new endpoint to extend session duration ( <a href="#">PR #216</a> ) Further enhancements under discussion: <ul style="list-style-type: none"> <li>• List endpoint for active session of authenticated user</li> <li>• Add application function Id</li> <li>• Add support for DSCP markings for QoD sessions</li> </ul>



# Status Sub Projects & Working Groups

## SimSwap



Scope, Meetings, Mailing list: <https://github.com/camaraproject/SimSwap>

Deliverable	R/O	Current status / Achievements
API Definition	R	<a href="https://github.com/camaraproject/SimSwap/blob/main/code/API_definitions/sim_swap.yaml">https://github.com/camaraproject/SimSwap/blob/main/code/API_definitions/sim_swap.yaml</a>
API doc/user stories/testcases	R	Documentation integrated into YAML file
Implementation	R	N/A
API Reviews and extensions	O	<ul style="list-style-type: none"><li>• 6 issues, 2 PR</li><li>• PR #55 - Release version in preparation – security scheme discussion</li><li>• PR #60 – new API description for notification subscription</li></ul>

# Status Sub Projects & Working Groups

## WebRTC



Scope, Meetings, Mailing list: <https://github.com/camaraproject/WebRTC>

Deliverable	R/O	Current status / Achievements
API Definition	R	Kick off meeting to be held in the week of 23 <sup>rd</sup> October where the scope will be defined and the first draft of the API will be proposed
API doc/user stories/testcases	R	Not available yet
Implementation	R	N/A
API Reviews and extensions	O	N/A

# Status Sub Projects & Working Groups

## APIBacklog



Scope, Meetings, Mailing list:

<https://github.com/camaraproject/WorkingGroups/tree/main/APIBacklog>

Deliverable	Current status/ Achievements
Documents	Live table for API backlog available [ref]. This table includes pointers to filled-in templates for API proposals.
New Issues	<ul style="list-style-type: none"> <li>- Clean-up for API backlog table (<b>#307</b>)</li> <li>- Re-assessing scope of Anonymised Subscriber Identifier API (<b>#312</b>)</li> <li>- New API proposal: Service Booking API (<b>#317</b>)</li> </ul>
PRs	<ul style="list-style-type: none"> <li>- APIs not yet discussed: <b>#316</b> (Template for new API proposal: Service Booking API)</li> <li>- APIs not yet discussed in TSC: <b>#294</b> (Network Insights API)</li> <li>- APIs discussed in TSC, but w/o Sub-project created yet: <b>#276</b> (Device Swap), <b>#277</b> (IMEI Fraud)</li> </ul>
Announcements	<p>TSC decisions on APIs:</p> <ul style="list-style-type: none"> <li>- <u>Approved</u>: IMEI Fraud. <ul style="list-style-type: none"> <li>• It will be handled within Device Identifier WG</li> </ul> </li> <li>- <u>In Progress</u>: <u>Device Swap</u> <ul style="list-style-type: none"> <li>• Moving Forward (Not blocked). Pending decision on the sub-pWG handle it (existing one, new one or renamed). In the next TSC will be approved</li> </ul> </li> <li>- <u>Not approved</u> (clarification requested with TMF): Site-to-Cloud VPN.</li> </ul> <p>Keep collaboration with Open Gateway Business Workstream and TSC to <b>streamline submission process and speed up approval process of new APIs.</b></p>

# Status Sub Projects & Working Groups

## Marketing



Scope, Meetings, Mailing list:

<https://github.com/camaraproject/WorkingGroups/tree/main/Marketing>

Deliverable	Current status/ Achievements
Documents	New CAMARA Powerpoint template available: <a href="#">template</a> Please use it for all external communication, but also for internal needs
PRs	
New issues	Update list of events where CAMARA should be visible: <a href="#">Events_2023.md</a> Provide videos and pictures of events done for publishing at CAMARA website
Announcements	



Thank you!



**CAMARA**  
THE TELCO GLOBAL API ALLIANCE