



CAMARA
THE TELCO GLOBAL API ALLIANCE

AECC member event

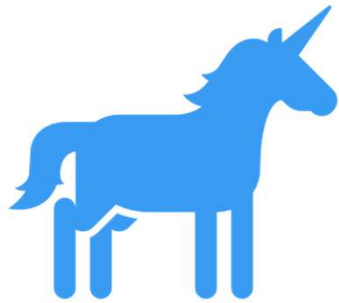
22.04.2026

What is the CAMARA Project?

Key problems we try to solve



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Scale

Developers dream of being the next unicorn...
If apps, products, or services are built on our APIs they want them in all relevant markets and networks globally.



Consistency

Multi-nationals want consistency across all markets they operate in... they do not want APIs that only work in a single network in a single country. They do not want to try and build for the differences of each network.



Simplicity

Telco networks are complex, and every network is different...
Developers want simple, intent-based APIs.



Accessibility

We go to the developers where they are so the project is open sourced in the Linux Foundation. Allowing API users to work directly with CSPs creating the service.



Demand Driven

We develop the APIs and design it in the way our customers need it. The demand is collected from organizations like GSMA OPAG but also from customers directly.

CAMARA Open Source



CAMARA is an open source project within Linux Foundation to define, develop and test the APIs. CAMARA works in close collaboration with the GSMA Operator Platform Group to align API requirements and publish API definitions. Harmonization of APIs is achieved through fast and agile created working code with developer-friendly documentation. API definitions and reference implementations are free to use (Apache2.0 license).



CAMARA API Overview



THE LINUX FOUNDATION PROJECTS

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Home About API Overview API Descriptions Working Groups Events Resources Contact

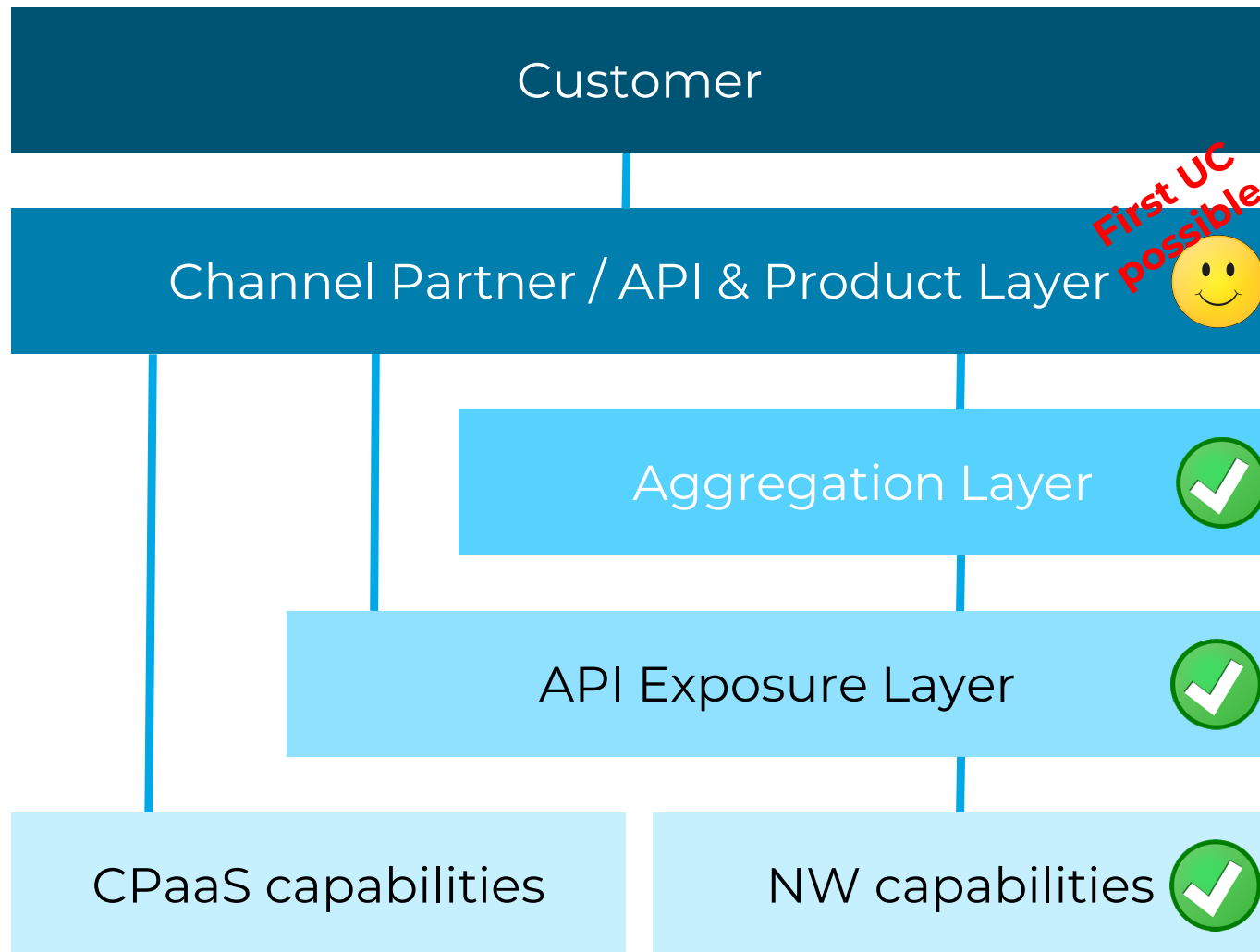
Authentication and Fraud Prevention	Location Services	Communication Services	Communication Quality	Device Information	Computing Services	Payments and Charging	Service Management
Call Forwarding Signal	Geofencing Subscriptions	WebRTC Call Handling	Application Profiles	Connected Network Type	Simple Edge Discovery	Blockchain Public Address	
Customer Insights	Location Retrieval	WebRTC Event Subscription	Connectivity Insights	Connected Network Type Subscriptions		Carrier Billing	
Device Swap	Location Verification	WebRTC Registration	Connectivity Insights Subscriptions	Device Identifier		Carrier Billing Refund	
Know Your Customer Age Verification	Population Density Data		Home Devices QoD	Device Reachability Status			
Know Your Customer Fill In	Region Device Count		QoD Provisioning	Device Reachability Status Subscriptions			
Know Your Customer Match			QoS Profiles	Device Roaming Status			
Know Your Customer Tenure			Quality on Demand	Device Roaming Status Subscriptions			

- <https://camaraproject.org/api-overview/>
- Mature APIs
- APIs in earlier development

The API ecosystem – Current status and challenges



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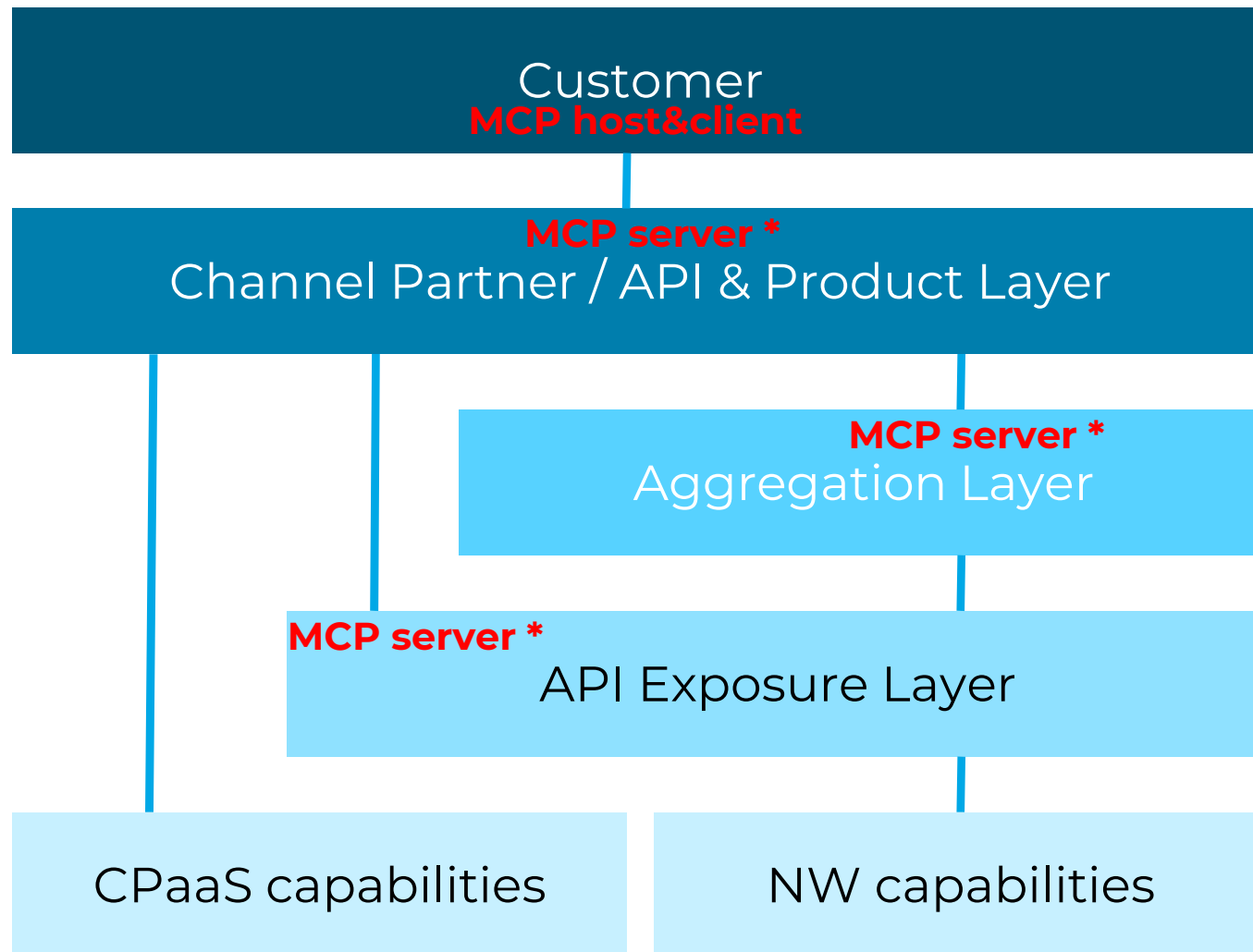


- Show the figures (successful revenues) - [GSMA](#)
- Find balance between regulation/data privacy and usability for the markets - [GSMA](#)
- Prepare all layers for (agentic) AI – [Channel Partners](#), [GSMA](#), [CAMARA](#) *Next slide*
- Introduce products - [Channel Partners](#)
 - Change communication (solve customer problems instead of expose capabilities)
 - Design and develop products following customer need, considering alternative (non-telco) solutions and attractive pricing
- Push market coverage and communicate it - [GSMA](#)
- Close gaps at operators - [Operators](#)
- Enable Consent API for multi-API one-step consent independent of API flows - [CAMARA](#)

The API ecosystem – Prepare for agentic AI



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- CAMARA should provide context for MCP servers, esp. scopes and purposes, user consent requirements
- CAMARA should adjust security guidelines and API design guidelines
- CAMARA should provide authoritative MCP function definitions versioned in lockstep with corresponding CAMARA API definitions
- GSMA/OGW should add MCP servers to technical standards, launch map, certification
- Operators and Aggregators should expose MCP servers in parallel to APIs
- Channel partners and Customers should use LLMs/MCP hosts/MCP clients in parallel to products. Channel partners also can expose MCP servers to customers.

*** MCP server can sit in exposure layer (for single operator APIs), aggregation layer (for aggregated APIs) or Channel Partner layer. But aggregation only happens on API side, not on MCP side**

What does it mean for AECC and Automotive?



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☰ Rethink automotive services with 5G: Toyota, KDDI, Ericsson, Aduna and AECC

Map overview ● API overview Use cases Case films

APIs APIs + Use cases ✕

<p>Quality on Demand</p> <p>Dynamic change of QoS priority for specific traffic flow in real time.</p> <p>Use cases</p> <ul style="list-style-type: none"> Line out of sight notification User/driver notification and verification Route selection Prioritized video upload Remote driving 	<p>Dedicated Network</p> <p>Advanced differentiated connectivity for a virtual network slice with service categories, security and edge routing.</p> <p>Use cases</p> <ul style="list-style-type: none"> Vehicle data collection for AI V2CloudCruiseAssist Intelligent driving update HD map update OTA update 	<p>Predictive Connectivity</p> <p>Enables connectivity performance predictions.</p> <p>Use cases</p> <ul style="list-style-type: none"> Route selection Public to public network swap Public to private network swap 	<p>Connectivity insights</p> <p>Checks if the network requirement can be met for a given session and to ensure SLA of service.</p> <p>Use cases</p> <ul style="list-style-type: none"> Prioritized video upload Prioritized communication 	<p>Edge Cloud</p> <p>Functionality for edge routing and workload management.</p> <p>Use cases</p> <ul style="list-style-type: none"> Vehicle data collection for AI V2CloudCruiseAssist Intelligent driving update HD map update 	<p>Number verify / SIM swap</p> <p>Fraud prevention type of APIs for silent authentication and user's SIM information when adding new service or change/check service contract.</p> <p>Use cases</p> <ul style="list-style-type: none"> User and driver notification sessions
<p>Remote SIM management</p> <p>Device credential management (including remote SIMs, e.g. for connectivity, roaming and coverage).</p> <p>Use cases</p> <ul style="list-style-type: none"> Public to public network swap Public to private network swap 	<p>Location</p> <p>Highly reliable and real-time network-based location.</p> <p>Use cases</p> <ul style="list-style-type: none"> Route selection V2CloudCruiseAssist Public to public network swap Public to private network swap Line out of sight notification 	<p>Geofencing</p> <p>Notifications when a vehicle enters or exits the predefined area.</p> <p>Use cases</p> <ul style="list-style-type: none"> V2CloudCruiseAssist HD map update Line out of sight notification Public to public network swap Public to private network swap 	<p>Population density data</p> <p>Information about dynamic people density information.</p> <p>Use cases</p> <ul style="list-style-type: none"> Avoid crowded area 	<p>Rain attenuation</p> <p>Information about heavy rain conditions.</p> <p>Use cases</p> <ul style="list-style-type: none"> Select route without rain 	<p>Group management</p> <p>User notification and verification.</p> <p>Use cases</p> <ul style="list-style-type: none"> User/driver notification and verification

What does it mean for AECC and Automotive?



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- AECC could **define & standardize products for Automotive**
- E.g. Remote driving: In case an autonomous vehicle gets into troubles
 - Check network conditions – **Connectivity Insights**
 - Add QoD if necessary and available – **Quality on Demand**
 - Open video and remote control session - **CPaaS**
 - Get location and send it to operator – **Location Retrieval**
 - Monitor network conditions and switch on/off QoD dynamically – **Connectivity Insights & QoD**
 - Close sessions (and switch off QoD) - **CPaaS**
- Consider data privacy & network neutrality: **Align with authorities** in relevant markets
- Define business model / **productize it**
- Send API requirements to CAMARA
- **Win channel partner(s)** in the markets to implement the products

Participate in the AECC's Proof-of-Concept Program

Organizations interested in collaborating with the AECC on a POC can initiate the process by contacting ProofofConcept@aecc.org. For a glimpse into how AECC's ongoing POCs successfully address data challenges, access POC case studies and on-demand videos at <https://aecc.org/proof-of-concepts/>.

CAMARA Contacts



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Individuals and organizations from application developers / API consumers (e.g. enterprises and startups), aggregators, cloud operators, telco operators, network equipment vendors, system integrators, and software vendors are welcome to join CAMARA.

To access CAMARA technical resources like API definitions, API specifications or API code just visit the [CAMARA GitHub](#). All resources are reachable without any prerequisite. To create issues and start contributing to CAMARA you need a free GitHub account without any further prerequisite. This participation is free, without any fees or obligation to work.

If you are interested to be included in the CAMARA communication, please subscribe to all+subscribe@lists.camaraproject.org. You may unsubscribe from CAMARA and these communications at any time. Participation is free.

If you are interested to show your logo on the CAMARA website as “Participating Organization” you can send it to adm@lists.camaraproject.org. Participation is also free.

If you would like to join as CAMARA sponsor or associating organization, please don't hesitate to use the enrollment link <https://enrollment.lfx.linuxfoundation.org/?project=camarafund>. Cost is depending on the kind of membership and the number of employees.





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