



CAMARA

THE TELCO GLOBAL API ALLIANCE

OSPO CodeCon 2026

11.08.2026

Potential Business Use Cases



Authentication and Fraud Prevention



Secure Auth

Fraud Prevention

Number Verify,
Sim Swap, etc.

Location Services



Location Verification

Location Retrieval
Location Geofencing

Location APIs

Communication Quality



Safeguarding of Transactions

Remote Control
AR/VR/XR
Gaming

Quality on Demand

Device Information



Proactive User Information

Device Data Volume

Computing Services



Edge Application hosting
Latency optimization

Simple Edge Discovery

Network APIs offer the opportunity

- For customers to optimize their use cases and applications
- For operators to monetize their invest in 5G infrastructure

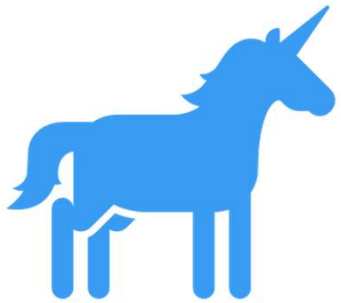
It's a win-win!

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).



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Where we started...



Launched at MWC
Barcelona 2022

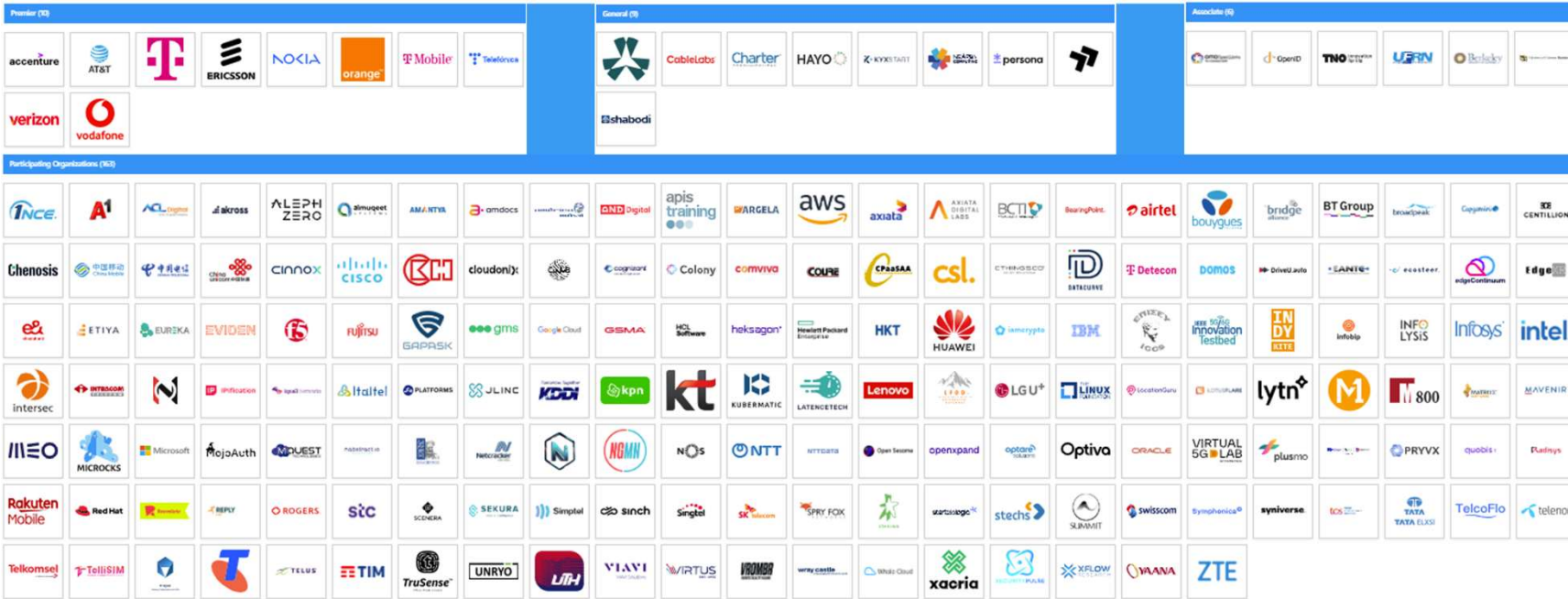
22 Launch Partners

Supported by GSMA and
Linux Foundation

Simple idea to “standardize”
developer facing APIs



... and where we are now



- 188 Named Partners
- 481 companies participating in CAMARA
- 9 API Sub Projects
25 Sandbox Projects
68 APIs
5 Working Groups
- 1353 people joined CAMARA
- Development "home" for GSMA Open Gateway

CAMARA API Overview



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HomeAboutAPI OverviewAPI DescriptionsWorking GroupsEventsResourcesJoin

The APIs in the following table are mature: APIs which are stable or already part of two or more CAMARA meta releases.

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		QoS Profiles	Device Reachability Status			
Know Your Customer Fill In	Region Device Count		QoS Provisioning	Device Reachability Status Subscriptions			
Know Your Customer Match			Quality on Demand	Device Roaming Status			
Know Your Customer Tenure				Device Roaming Status Subscriptions			

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

API Descriptions



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API Description

The "Call Forwarding Signal" (CFS) API provides the API consumer with information about the status of the Call Forwarding Service on a specific phone number. The main scope of the CFS API is anti-fraud to avoid fraudsters to use the Call Forwarding Service to carry on a scam. Other use cases are anyway supported by the CFS API that also provides additional endpoints to detect the general Call Forwarding Service settings.



The API consumer invokes the CFS API to determine if a specific phone number has an active "call forwarding" setup. "Call forwarding" is a network service that redirects incoming calls to another phone number (configured in the service). The CFS API can be used by a bank to verify if a "call forwarding" option is active on the customer's phone number to avoid frauds. A call from the

API Portfolio: Authentication and Fraud Prevention

- SubProject Wiki: [Call Forwarding Signal](#)
(incl. how to meet the team)
- API Wiki: [Call Forwarding Signal](#)
- API Repository: [Call Forwarding Signal](#)

API Repository Status: **Incubating**

API Status: **Initial**

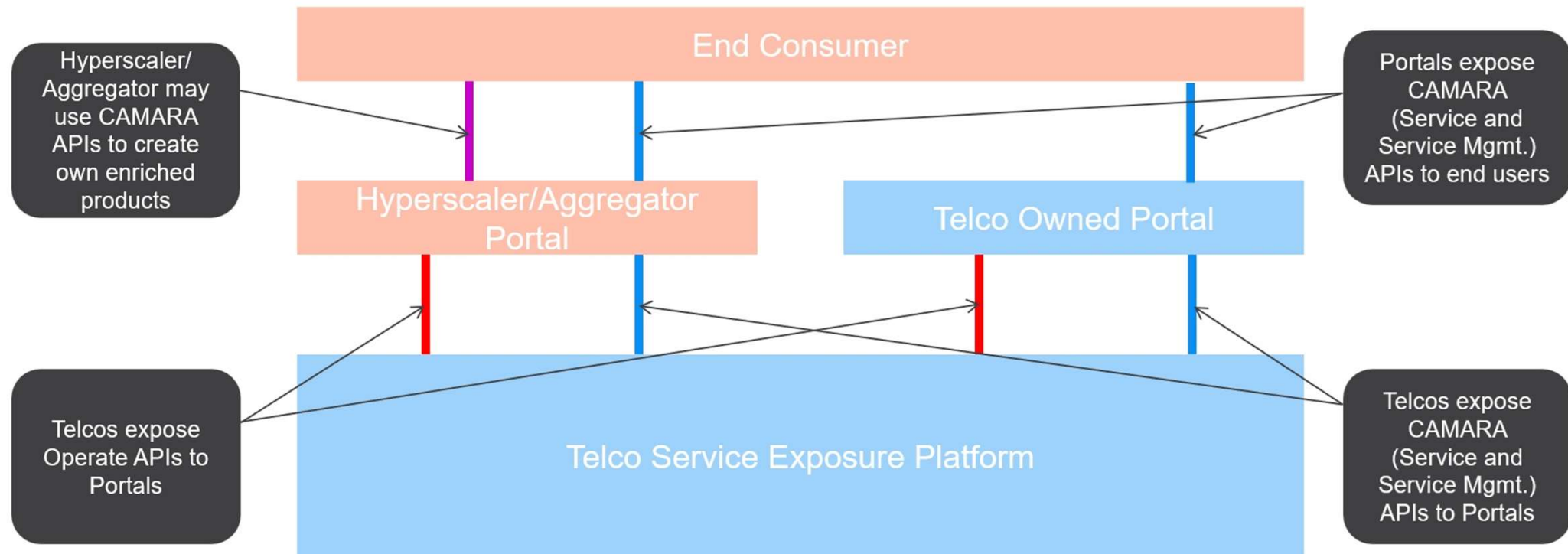
API Version(s) and Release Date(s):

- [v0.2.0](#) (2024-09-15), Fall24 meta-release
- [v0.3.0](#) (06.03.2025), Spring25 meta-release

API availability: Information which APIs are available in which country and network, and how to get access can be found on the [GSMA public launch status page](#).

- API description
- Use Cases
- Benefits
- Links to
 - Sub Project (contacts)
 - API Wiki
 - API repository
 - API version(s)
 - GSMA public launch status

CAMARA – Scope / Collaboration with Open Gateway and TM Forum

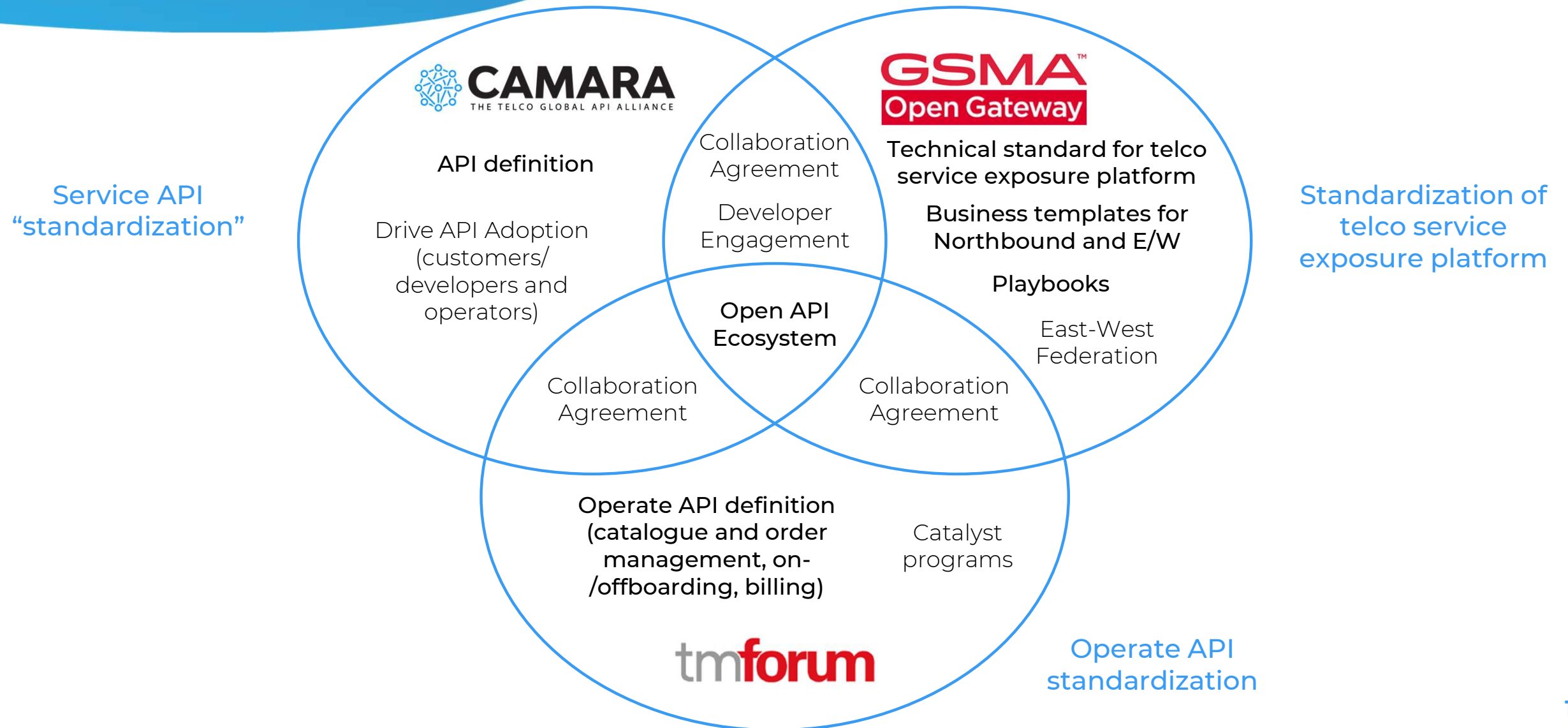


Hyperscalers and aggregators have the possibility to create own enriched products based on the CAMARA APIs and expose that in addition to the CAMARA APIs.

CAMARA – Scope / Collaboration with Open Gateway and TM Forum



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CAMARA / Open Gateway API public launch status



Commitment

138 **80** operator groups
and **58** Channel
Partners supporting the
Open Gateway MOU

291 operator networks
represented

>80% of mobile
connections
represented

Assets

66 APIs published in

34 APIs in Development

Technical
Standardization through certification
Certified APIs

Commercial
Open Service Agreement, Channel
Partner On-Boarding and E-W
Federation Agreement Templates

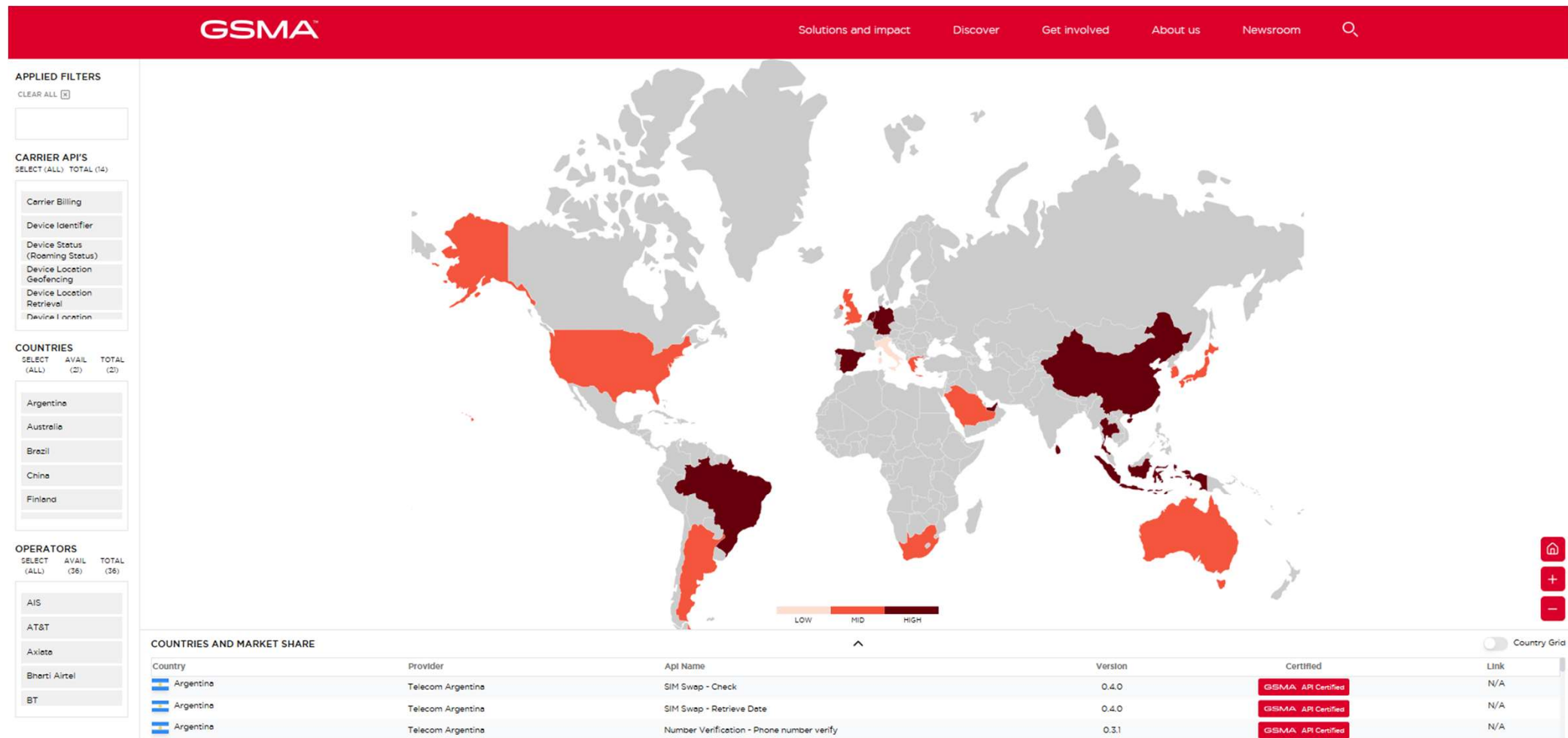
Impact

270 commercial API
launches

21 market champion launches
with align GTM services,
engaged with **68** Markets

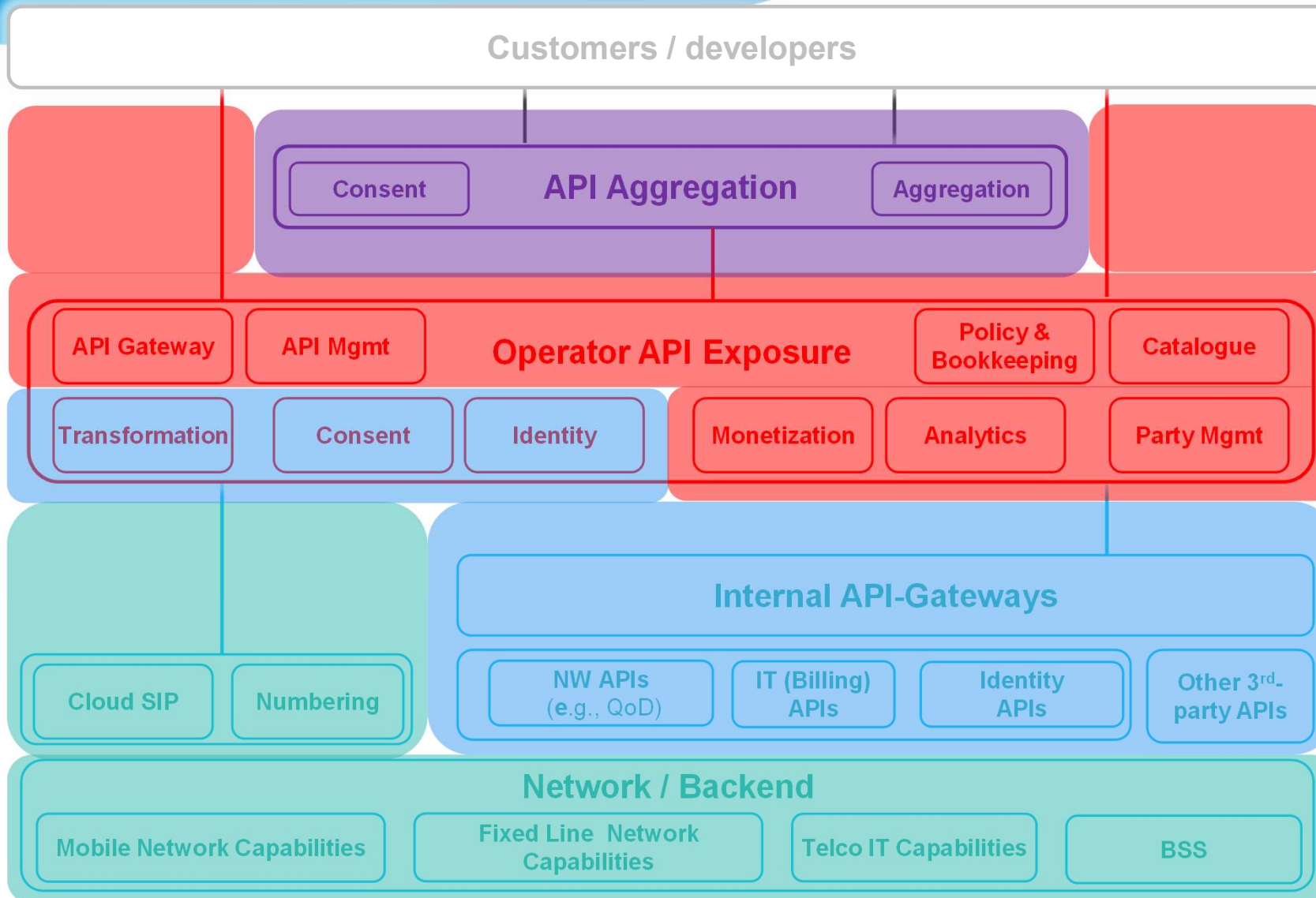
17,096
media mentions in 2025,
22K in 2024

CAMARA / Open Gateway API public launch status



<https://open-gateway.gsma.com/>

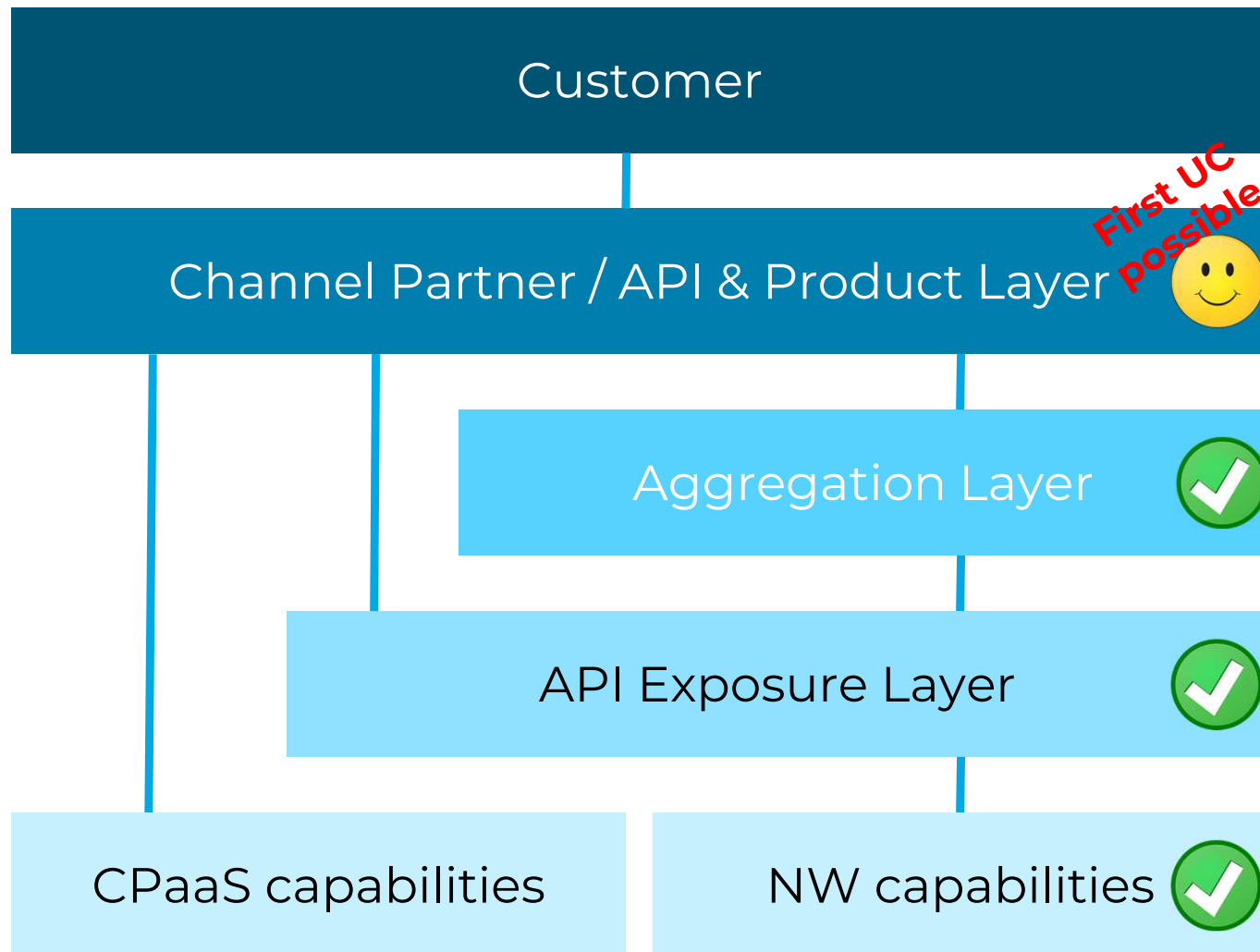
Role of CAMARA, Open Gateway and aggregators



Aggregators in each market



The API ecosystem – Current status and challenges

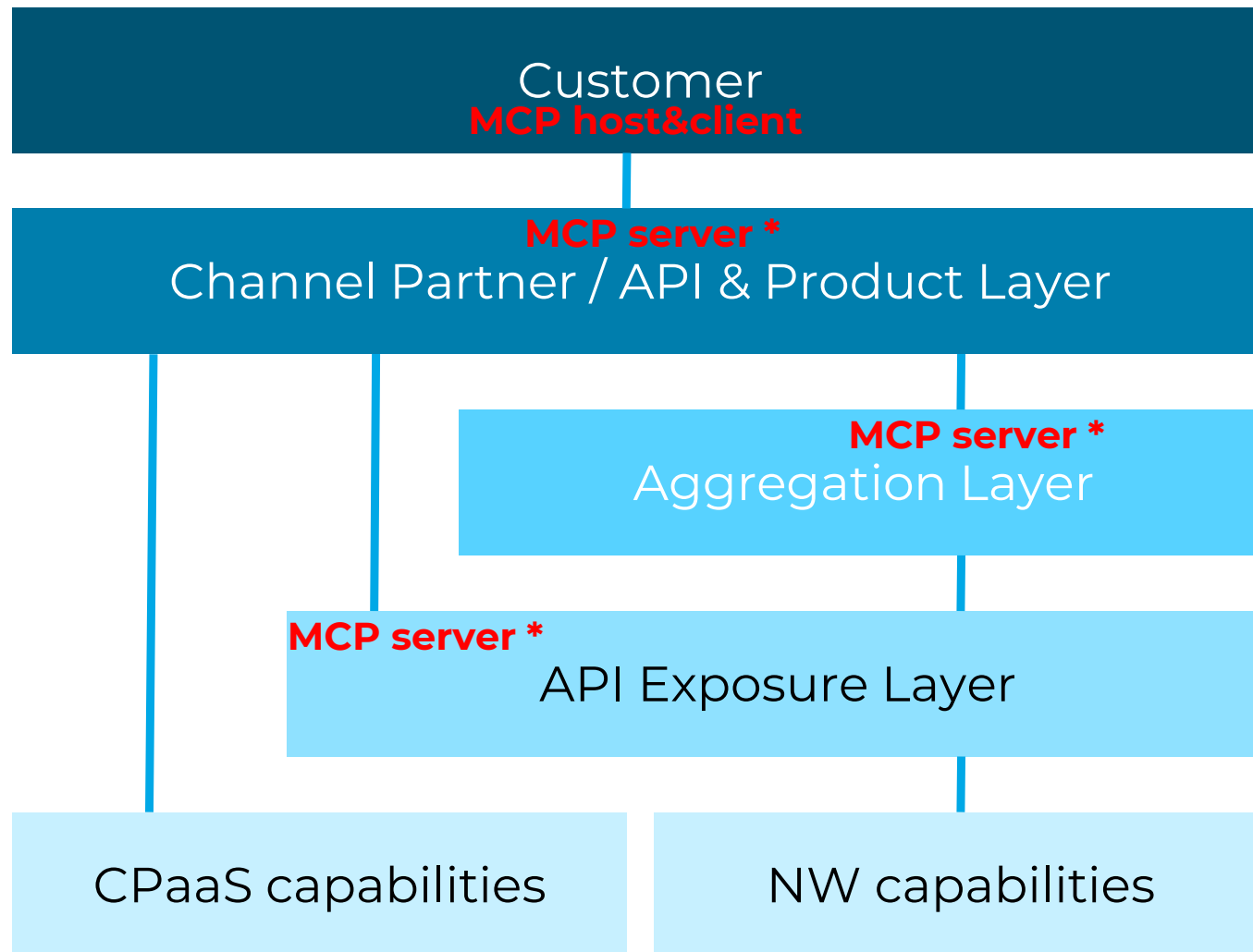


- Show the figures (successful revenues) - [GSMA](#)
- Find balance between regulation/data privacy and usability for the markets - [GSMA](#)
- Prepare all layers for (agentic) AI – [Channel Partners](#), [GSMA](#), [CAMARA](#) **Next slide**
- Introduce products - [Channel Partners](#)
 - Change communication (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.

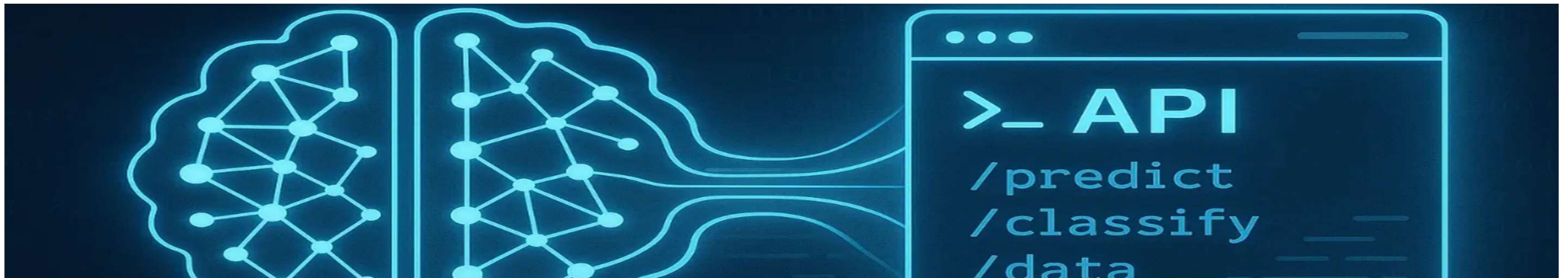
*** MCP server can sit in exposure layer (for single operator APIs), aggregation layer (for aggregated APIs) or Channel Partner layer. But aggregation only happens on API side, not on MCP side**

APIs and AI – The intersection



4 different scenarios:

- AI used by developers inside operators for their daily work
- AI used inside operators to develop better APIs (e.g. prediction)
- AI used by operators as an additional portfolio (MaaS)
- AI used as sales channel (agentic AI)

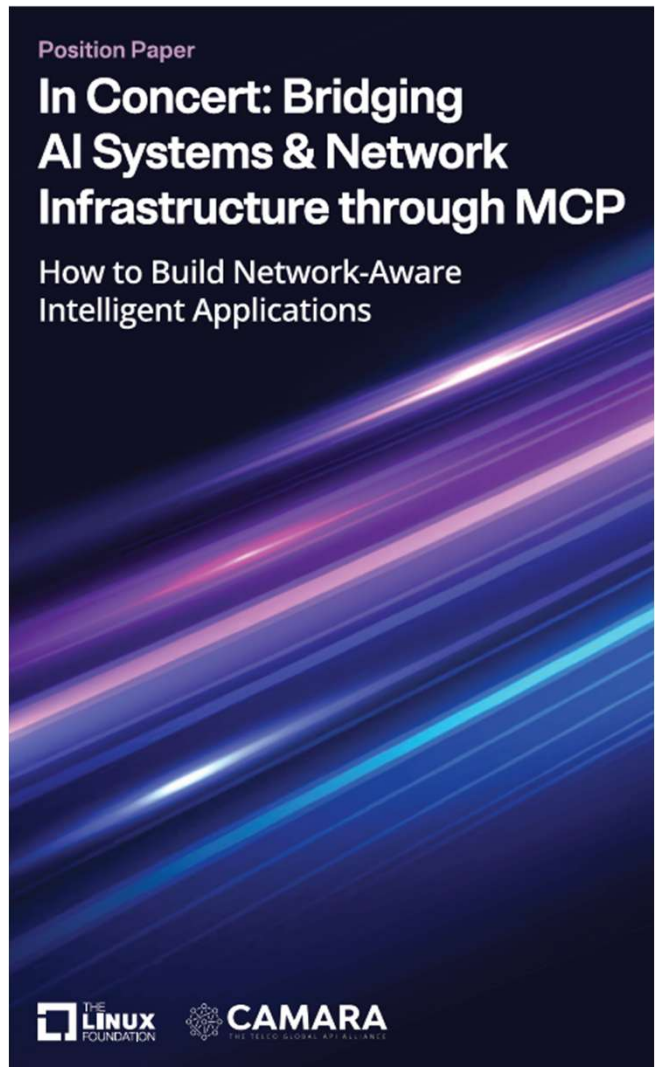


In Concert: Bridging AI Systems and Network Infrastructure through MCP



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- To enable LLMs accessing network capabilities, APIs and a bridging protocol (MCP) is needed. Combining both AI developers can
 - Deliver more intelligent, network context-aware services
 - Reduce delivery complexity, accelerate time-to-market, expand global reach
 - Enable AI models to make real-time, policy-compliant decisions that optimize UX and resource utilization
- Example use cases are listed in the whitepaper

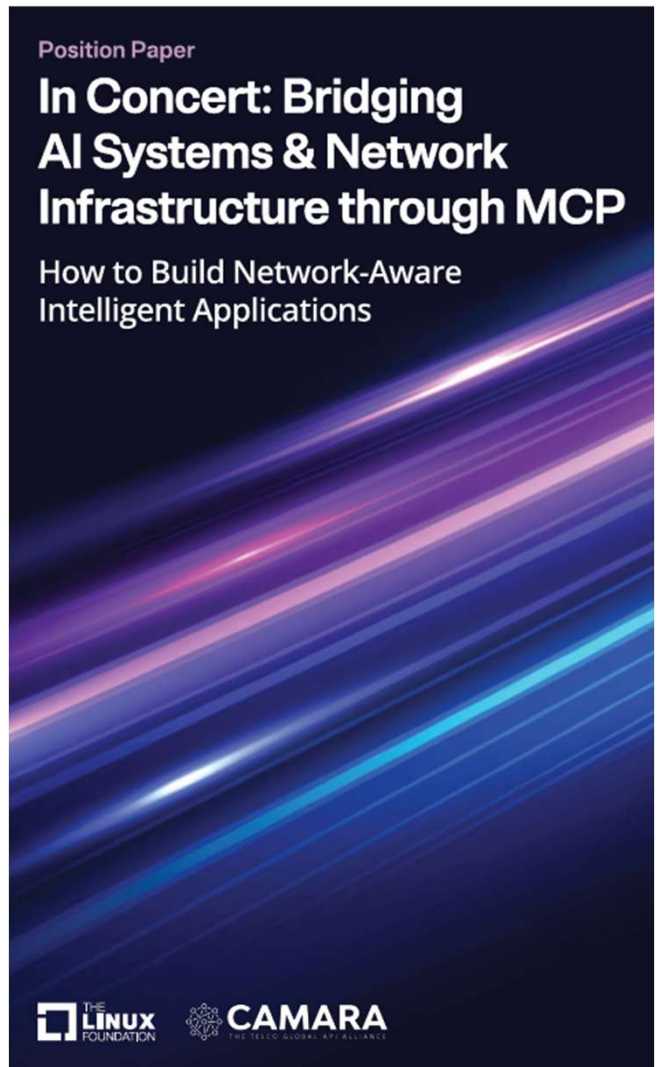


In Concert: Bridging AI Systems and Network Infrastructure through MCP



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- No fundamental changes are required to either ecosystem
 - Provide context for MCP servers, esp. scopes and purposes, user consent requirements
 - Follow CAMARA security guidelines and API design guidelines (both need to be adjusted to AI)
 - CAMARA may provide authoritative MCP function definitions versioned in lockstep with corresponding CAMARA API definitions
- Details are documented in the whitepaper



CAMARA Contacts



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.

