



# Steering Committee

December 8<sup>th</sup> 2022

08.12.2022

# Agenda

- 
- 01** Welcome new participants
  - 02** Qorum given?
  - 03** Project governance updates
  - 04** Sub Project status
  - 05** Working Group status
  - 06** NaaS - API Standards (Telefonica presentation)
  - 07** 5G Enablement through Industry standardized APIs (Ericsson presentation)
  - 08** AOB
-

# Welcome new participants

## Public Github repository for CAMARA project



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

# Quorum given? Yes|No – No decision today

5GFF	Jeremy Giese (Parry Booker, Kevin Smith)	✓
AT&T	Wiley Wilkins (Barry Elia)	✓
Capgemini	Deepak A. Gunjal	✓
Deutsche Telekom AG	Nathan Rader (Markus Kümmerle)	✓
Ericsson	Bart van Kaathoven (Jan Friman)	✓
Google Cloud	Sridhar Gollapudi	✓
GSMA	Henry Calvert	✓
IBM	Jason Hunt (Zyg Lozinski)	✓
Intel	Petar Torre	✓
Kandy	Philip Lintell	✓
KDDI	Shingo Watanabe (Toshiyasu Wakayama)	✓
Microsoft	Landon Cox	✓
Nokia	Chris Jones (Tanja de Groot)	✓
ORANGE	Sylvain Morel	✓
Scenera	David Lee	✓
T-Mobile US	Lyle Bertz	✓
TIM	Roberto Procopio (Fabrizio Moggio)	✓
Telefonica	Juan Carlos Garcia (Jose A Ordonez Lucena)	✓
TELUS	Ali Tizghadam	✓
Vodafone	Steven Pater	✓



# Project governance updates

## Provider implementations – Code will be moved out of lead repos

QualityOnDemand

Public

Repository to describe, develop, document and test the QualityOnDemand API family

Java

8

24

16

3

Updated 3 hours ago

- Lead repo for Quality on Demand
- API definition
  - API\_documentation

QualityOnDemand\_RI1

Public template

Repository to contain the reference implementation of the \$repo\_name\$ API family

Apache-2.0

0

0

0

0

Updated 5 days ago

- Provider Implementation 1:
- API code for DT implementation

QualityOnDemand\_RI2

Public template

Repository to contain the reference implementation of the \$repo\_name\$ API family

Apache-2.0

0

0

0

0

Updated 5 days ago

- Provider Implementation 2:
- API code for Orange implementation



# Sub Project status

## “Quality on Demand”

### Scope:

- Service APIs for “Quality on Demand” (see APIBacklog.md)
- It provides the customer with the ability to:
  - set quality for a mobile connection (e.g., required latency, jitter, bit rate)
  - get notification if network cannot fulfill
  - NOTE: The scope of this API family should be limited (at least at a first stage) to 4G and 5G.
- Specify, develop, document and test the APIs (with 1-2 Telcos)
- Schedule: from now to 31.12.2022
- Location: virtually

### Repository (incl. first draft API specs):

- <https://github.com/camaraproject/QualityOnDemand>
- 15 open issues, 1 active pull request
- Main branch with v0.8.0 protected (requires code owner review)
- Branch dev-v0.9.0 for further development of API

### Mailing list

- <https://lists.camaraproject.org/g/sp-qod> / [sp-qod@lists.camaraproject.org](mailto:sp-qod@lists.camaraproject.org)

### Meetings

- Virtual, bi-weekly, Friday, 2 PM CET, next on Dec 2<sup>nd</sup>

### Maintainers

- DT: Herbert Damker
- Ericsson: Emil Zhang
- Intel: Petar Torre
- KDDI: Toshi Wakayama
- Orange: Sylvain Morel
- Telefonica: José Luis Urién, Jesús Peña
- Verizon/5GFF: Syed Rehman
- Vodafone: Eric Murray

### OPAG Observer:

- Milan Lalovic (BT)

### Code Owner

- Herbert Damker (DT)
- Shilpa Padgaonkar (DT)

# Sub Project status

## “Quality on Demand”

Deliverable	Required/Optional (R/O)	Current status / Achievements
API Definition	R	Current version: v0.8.0 Branch dev-v0.9.0 for change proposals, currently one PR under discussion.
API doc/user stories/testcases	R	<b>API documentation updated for API definition v0.8.0</b> Editorial PR to be done, base for further improvements
Implementation	R	Implementation code for API version 0.1.0; Two provider implementation (PI) for v0.8.0 planned: update of DT implementation from v0.1.0 to v0.8.0 and one new from Orange
API Reviews and extensions		PR in review (for v0.9.0) <ul style="list-style-type: none"><li>• <a href="#">Introduce 'qosStatus' and corresponding notification event to fix issue #38</a></li></ul>

# Sub Project status

## “Edge Cloud”

### Scope:

- Service APIs for “Edge Cloud” (see APIBacklog.md)
- A (family of) APIs providing the customer with the ability to:
  - Onboard and manage application images to be deployed on resources within the operator network.
  - Use reserved compute resources within the operator network for the deployment of applications on VMs or containers
  - NOTE: The scope of this API family should be limited (at least in the short term) to 4G and 5G.
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Schedule: from now to 31.12.2022
- Location: virtually (Tue, 16-17 CET/CEST)

### Team / Maintainers:

- Broadpeak: Tuan Tran, Christoph Neuman
- Capgemini: Deepak Gunjal
- DT: Yamina Kelm, Shilpa Padgaonkar
- GSMA: Tom Van Pelt, Mark Cornall
- Intel: Larry Horner
- KDDI: Toshi Wakayama
- MSFT: Landon Cox
- EdgeXR: Jon Gainsley
- Nabstrack: Babu
- Orange: Alexandru Ciinaru, Sylvian Morain
- Scenera: Andrew Wajs
- TEF: Cristina Santana
- TIM: Fabrizio Moggio, Marco Signorelli, Raffaele P.
- VF: Eric Murray
- 5GFF: Kevin, Senthoo, Brett, Syed, Mashesh, Raghuram

Repository (<https://github.com/camaraproject/EdgeCloud>)

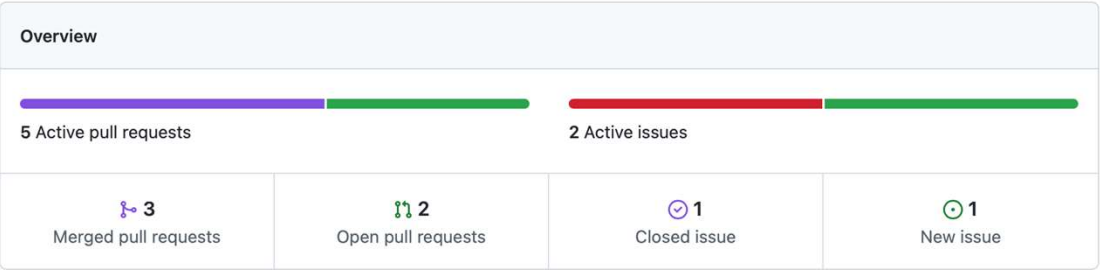
Lists: <https://lists.camaraproject.org/g/sp-edc> (subscribe) / [sp-edc@lists.camaraproject.org](mailto:sp-edc@lists.camaraproject.org) (mail list)



# Sub Project status

## “Edge Cloud”

### Status APIs



API	Owner	YAML available
MEC exposure and experience management API	5GFF	Y
Simple edge discovery API		
Application Artifacts Management API	OPAG	Y
Application Provider Resource Management API		
Application Onboarding Management API		
Application Instance Lifecycle Management API		
Code of former MobileEdgeX	EdgeXR	Y
Traffic Influence API	TIM	Y

- Golden nuggets in last month:
- 5GFF APIs have aligned taxonomy -> ‘Simple edge discovery’ is a profile (subset) of ‘MEC Exposure and Experience Management API’.
  - Stable version for 5GFF APIs.
  - Stable version for ‘Traffic Influence API’.
  - Live testing achieved for ‘simple edge discovery API

# Sub Project status

## “Device Status”

### Scope:

- Service APIs for “Device Status” (see APIBacklog.md)
- It provides the customer with the ability to:
  - check if a device is losing connection to the network or gets reachable again, and the roaming status.
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Started: July 2022
- Repository: <https://github.com/camaraproject/DeviceStatus>
- Mailing List: <https://lists.camaraproject.org/g/sp-dst> / [sp-dst@lists.camaraproject.org](mailto:sp-dst@lists.camaraproject.org)

### Team / Maintainers:

- DT: [N. Wirzius](#)
- Orange: [Sylvain Morel](#)
- Telefonica: [Mona Mokhber](#), [Jesús Peña](#)
- Vodafone: [Eric Murray](#), [Kevin Smith](#)
- Ericsson: [Joachim Dahlgren](#)

### Status:

- API definition V0.2.0 approved and uploaded to repository. This is the baseline for MWC'23 demos.
- Documentation proposal from DT
- First meeting to be held sometime during week beginning 12<sup>th</sup> December.
  - Poll being conducted through mailing list to select date.
  - Calendar file will be uploaded to repository on Friday 9<sup>th</sup> December once date finalized

# Sub Project status

## “Device Location”

### Scope:

- Service APIs for “Device Location” (see APIBacklog.md)
- It provides the customer with the ability to:
  - check the location of a device.
  - NOTE: The scope of this API family should be limited (at least at a first stage) to 4G and 5G.
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Started: July 2022
- Location: virtually

### Team / Maintainers:

- DT: [N. Wirzius](#)
- Orange: [Sylvain Morel](#), [Ludovic Robert](#)
- Telefonica: [José Luis Urién](#), [Jesús Peña](#)
- Vodafone: [Kevin Smith](#)

### Status:

- Yaml available on repository: <https://github.com/camaraproject/DeviceLocation>
- No meeting
- Documentation in progress (in a pull request)
- Request for api improvement: Include a request parameter “MaxLocationAge’ to give the developer option to mention the maximum aging of the location info

# Sub Project status

## “AnonymisedSubscriberIdentifier”

### Scope:

- Service APIs for “AnonymisedSubscriberIdentifier” (see APIBacklog.md)
- It provides the customer with the ability to:
  - automatically identify a client device (specifically, the associated ISP subscription) attempting to access services, independently of any identity that the device itself may announce.
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Started: October 2022
- Meetings: Bi-weekly at 15:00 GMT starting Friday 9<sup>th</sup> December 2022
- Repository: <https://github.com/camaraproject/AnonymisedSubscriberIdentifier>
- Mailing List: <https://lists.camaraproject.org/g/sp-asi> / [sp-asi@lists.camaraproject.org](mailto:sp-asi@lists.camaraproject.org)

### Team / Maintainers:

- Vodafone: Kevin Smith, Eric Murray

### Status:

- Initial API definition uploaded to repository
- No open issues or pull requests
- First meeting to be held Friday 9<sup>th</sup> December @ 15:00 GMT. See repository for calendar file.

# Sub Project status

## “Carrier Billing Check Out”

### Scope:

- Service APIs for “CarrierBillingCheckOut” (see APIBacklog.md)
- It provides the customer with the ability to purchase, pay and follow up of fulfilment of physical/digital goods, using as Payment Method Carrier Billing, i.e.: the operator performs the billing of the goods.  
*NOTE: The scope of this API family should be limited (at least at a first stage) to 4G and 5G.*
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Started: October 2022
- Location: virtually (weekly, Wed, 4:30 PM CET)

### Maintainers/ Code Owners:

- GSMA: G Williams
- KDDI: Toshi Wakayama
- Orange: Sylvain Morel, Ludovic Robert
- STC: Alabajnaid
- Telefonica: Pedro Diez, Diego Gonzalez

### Golden nuggets in last month:

- [Weekly meeting set](#) (Wednesday, 4:30 PM CET)
- Improving User Stories
- Agreed to have two API solutions in the Carrier Billing Family APIs

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

- Issues: 5 open, 5 closed
- Pull requests: 5 open, 8 closed



Mail list: <https://lists.camaraproject.org/g/sp-cbc> / [sp-cbc@lists.camaraproject.org](mailto:sp-cbc@lists.camaraproject.org)

# Sub Project status

## “Carrier Billing Check Out”

Deliverable	Required/Optional (R/O)	Current status
API Definition	R	V0.1.0 submitted (see <a href="https://github.com/camaraproject/CarrierBillingCheckOut/pull/4">https://github.com/camaraproject/CarrierBillingCheckOut/pull/4</a> )  Two API solutions to be offered within API Carrier Billing Family. Targeted for 19 <sup>th</sup> December will full documentation available.
API doc/user stories/testcases	R	First draft available (see <a href="https://github.com/camaraproject/CarrierBillingCheckOut/blob/main/documentation/API_documentation/carrier_billing_user_stories.md">https://github.com/camaraproject/CarrierBillingCheckOut/blob/main/documentation/API_documentation/carrier_billing_user_stories.md</a> )
Implementation	R	Not yet
API Reviews and extensions		Not yet



# Sub Project status

## “DeviceIdentifier”

### Scope:

- Service APIs for “DeviceIdentifier” (see APIBacklog.md)
- It provides the customer with the ability to:
  - get the identity of the device being used by the subscriber.
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Started: October 2022
- Meetings: Bi-weekly at 15:00 GMT starting Friday 9<sup>th</sup> December 2022
- Repository: <https://github.com/camaraproject/DeviceIdentifier>
- Mailing List: <https://lists.camaraproject.org/g/sp-dvi> / [sp-dvi@lists.camaraproject.org](mailto:sp-dvi@lists.camaraproject.org)

### Team / Maintainers:

- Vodafone: Kevin Smith, Eric Murray

### Status:

- Initial API definition uploaded to repository
- No open issues or pull requests
- First meeting to be held Friday 9<sup>th</sup> December @ 15:00 GMT. See repository for calendar file.

# Sub Project status

## “Home Devices QoD”

### Scope:

- Service APIs for “Home Devices QoD”. (see APIBacklog.md)
- Quality on demand control applied to devices connected to the user home network. It provides the customer with the ability to change DSCP value for the IP traffic corresponding to a specific user home device.
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Started: October 2022
- Location: virtually (weekly, Thu, 5 PM CET)

### Maintainers/ Code Owners:

- Orange: Sylvain Morel, Ludovic Robert
- Scenera: Andrew Wajs
- Telefonica: [Jesús Peña](#), Mona Mokhber

Repository: <https://github.com/camaraproject/HomeDevicesQoD>

- Issues: 4 open, 0 closed
- Pull requests: 2 open, 5 closed

### Golden nuggets in last month:

- [Weekly meeting](#) set (Thursday, 5 PM CET)
- 1<sup>st</sup> version of User Stories doc ready to merge.
- Open discussions with Orange (API being promoted internally). DT to get involved too (awaiting technical contacts).

Mail list: <https://lists.camaraproject.org/g/sp-hdp> / [sp-hdp@lists.camaraproject.org](mailto:sp-hdp@lists.camaraproject.org)



# Sub Project status

## “Home Devices QoD”

Deliverable	Required/Optional (R/O)	Current status
API Definition	R	V0.1.0 submitted (see <a href="https://github.com/camaraproject/HomeDevicesQoD/tree/main/code/API_definitions">https://github.com/camaraproject/HomeDevicesQoD/tree/main/code/API_definitions</a> )
API doc/user stories/testcases	R	1st version of user stories doc in API documentation being addressed in issue <a href="#">#9</a> and PR <a href="#">#10</a>
Implementation	R	Not yet
API Reviews and extensions		Not yet

# Sub Project status

## “NumberVerification”

### Scope:

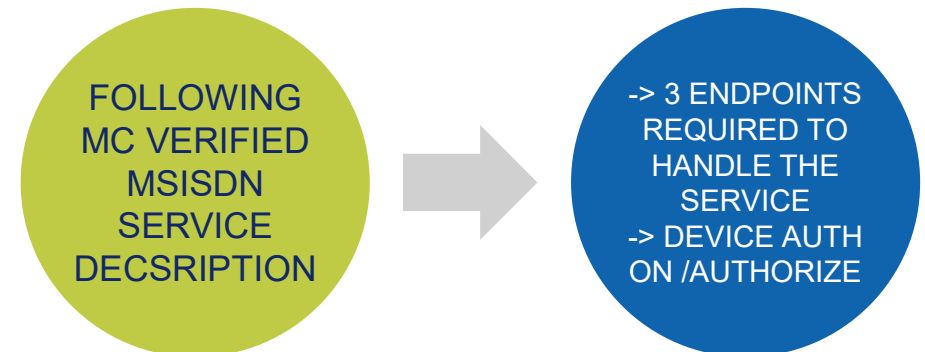
- Service APIs for “NumberVerification” (see APIBacklog.md)
- It provides the customer with the ability to:
  - verify the phone number of the device connected to the mobile data network.
  - NOTE: The scope of this API family should be limited (at least at a first stage) to 4G and 5G.
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Started: October 2022
- Location: virtually (MS Teams)
- Bi-weekly Main session Tuesday's at 4:30PM CET (Thursday's 8:30AM CET for Asia) - starting week 42

-> DISCUSSION ON  
GITHUB ABOUT THE  
CONTENT OF API  
CALLS (TEF,  
ORANGE)  
-> EXCHANGING  
IDEAS WITH TIM -  
EXPECTING YAML  
PROPOSAL

### Team / Maintainers:

- 10 members
- TEF: Mona Mokhber, José Luis Urién
- Orange: Ludovic Robert
- Airtel: Varun Talus, Pardeep Singla, Ramit Chawla
- TIM Brasil: Paulo Cesar Dias Lima, Anderson De Souza Marinho

Repository: <https://github.com/camaraproject/NumberVerification>  
Subscribe to mailing list: [sp-nve+subscribe@lists.camaraproject.org](mailto:sp-nve+subscribe@lists.camaraproject.org)



# Sub Project status

## “NumberVerificationSMS2FA”

### Scope:

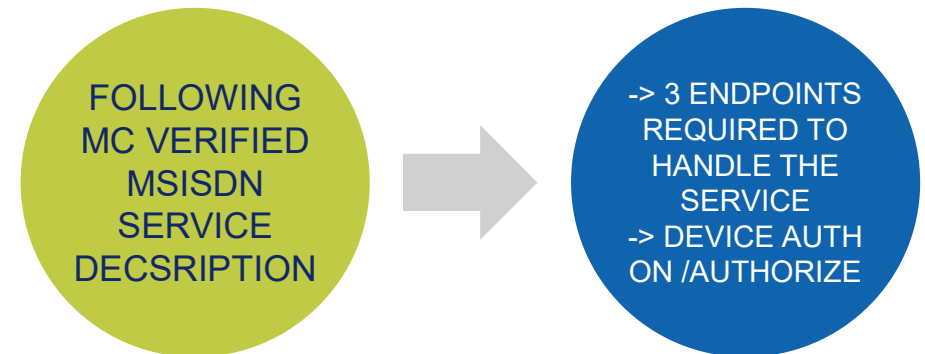
- Service APIs for “NumberVerificationSMS2FA” (see APIBacklog.md)
- It provides the customer with the ability to:
  - offer secure user authentication to Service Providers.
  - NOTE: The scope of this API family should be limited (at least at a first stage) to 4G and 5G.
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Started: October 2022
- Location: virtually (MS Teams)
- Bi-weekly Main session Tuesday's at 4:30PM CET (Thursday's 8:30AM CET for Asia) - starting week 42

### Team / Maintainers:

- 11 members
- TEF: Mona Mokhber, José Luis Urién
- Orange: Ludovic Robert

Repository: <https://github.com/camaraproject/NumberVerificationSMS2FA>

Subscribe to mailing list: [sp-nvs+subscribe@lists.camaraproject.org](mailto:sp-nvs+subscribe@lists.camaraproject.org)



# Sub Project status

## “SimSwap”

### Scope:

- Service APIs for “SimSwap” (see APIBacklog.md)
- It provides the customer with the ability to:
  - obtain information on any recent SIM pairing change related to the User’s mobile account.
  - NOTE: The scope of this API family should be limited (at least at a first stage) to 4G and 5G.
- Describe, develop, document and test the APIs (with 1-2 Telcos)
- Started: October 2022
- Location: virtually (MS Teams)
- Bi-weekly Main session Tuesday's at 4:30PM CET (Thursday's 8:30AM CET for Asia) - starting week 42

-> ORANGE  
COMMENTS ON  
YAML FILES  
-> COMMON  
APPROACH TO  
ENDPOINTS

### Team / Maintainers:

- 9 members
- TEF: Mona Mokhber, José Luis Urién
- Orange: Ludovic Robert, Patrice Conil, Sylvain Morel
- TIM Italy: Fabrizio Moggio

Repository: <https://github.com/camaraproject/SimSwap>

Subscribe to mailing list: [sp-ssw+subscribe@lists.camaraproject.org](mailto:sp-ssw+subscribe@lists.camaraproject.org)



# Working Group status

## “Commonalities for APIs”

### Scope:

- Work out “Commonalities for APIs”
- Schedule: from now to end of 2022
- Location: virtually

### Team / Contributors:

- DT: Shilpa Padgaonkar
- Telefonica: Jose Ordonez-Lucena, Ruben Barrado Gonzalez
- Intel: Petar Torre, Francesc Guim
- Ericsson: Jan Friman, Miguel A. García-Martín
- KDDI: Toshi Wakayama
- Orange: Sylvain Morel, Olivier Mathieu
- TIM: Fabrizio Moggio
- Vodafone: Kevin Smith, Eric Murray, Ivan Nieto
- AT&T: Shahram Mohajeri
- GSMA: Faisal Zia, Tom van Pelt, Mark Cornall
- Accenture: Adriano Poloni, Giuseppe Di Nuccio
- Broadpeak: Christoph Neumann

### Repository

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

Meeting minutes  
in the repository

PR96  
GitHub  
issue

GitHub  
issue #57

PR68  
GitHub  
issue #60

GitHub  
issue #101

PR102  
GitHub  
issue #61

GitHub  
issue #75

GitHub  
issue #99

# Working Group status

## “Commonalities for APIs”

Deliverable	Format	Main Contributor	Current status
User consent documentation	Markdown	Telefonica	In review
API design guidelines	Markdown	Telefónica	Approved

# Working Group status

## “API Backlog”

closed  
GitHub  
issue #71

closed  
GitHub  
issue #88

### Scope:

- Work out the list of APIs to be developed in CAMARA
  - Any API proposal is internally discussed and assessed, according to well-defined criteria
  - A report is sent out to the SteerCo, which takes it into consideration for deciding whether this API proposal is to be worked out in CAMARA or not, and how.
- Schedule: from now until end of 2022
- Location: virtually (bi-weekly, Thu, 15-16 CET/CEST)

### Contributors:

- |  |  |
|--|--|
| • Accenture: Giuseppe Di Nuccio          | • KDDI: Toshi Wakayama, Yusuke                   |
| • AT&T: Sharam Mohareji                  | • Scenera: Andrew Wajs                           |
| • Deutsche Telekom: Noel Wirzius, Shilpa | • T-Mobile NL: Muhammad Ahmad                    |
| • Ericsson: Jan Friman, Miguel Garcia    | • Telefonica: Jose Ordonez-Lucena, Rubén Barrado |
| • GSMA: Mark Cornall                     | • TIM: Fabrizio Mogggio                          |
| • Infobip: Kwok Onn Looi                 | • Vodafone: Kevin Smith, Eric Murray, Ivan Nieto |
| • IBM: Jason Hunt                        |  |

### Golden nuggets in last month:

- Traffic Influence has been added to API backlog.
- No calls this last month – progress offline.
- Looking forward to receiving new API proposals!!

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

- Meeting minutes: <https://github.com/camaraproject/WorkingGroups/tree/main/APIBacklog/documentation/MeetingMinutes>
- Live table for backlog: <https://github.com/camaraproject/WorkingGroups/blob/main/APIBacklog/APIBacklog.md>

# Working Group status

## “Marketing”

### Scope:

- Plan and perform marketing activities for CAMARA
- Maintain marketing material (onepager, presentation, website, GitHub, ...)
- Started: November 2021
- Location: virtually

### Team / Contributors:

- Steering committee members

### Repository

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

Restart Planned

# NaaS - API Standards

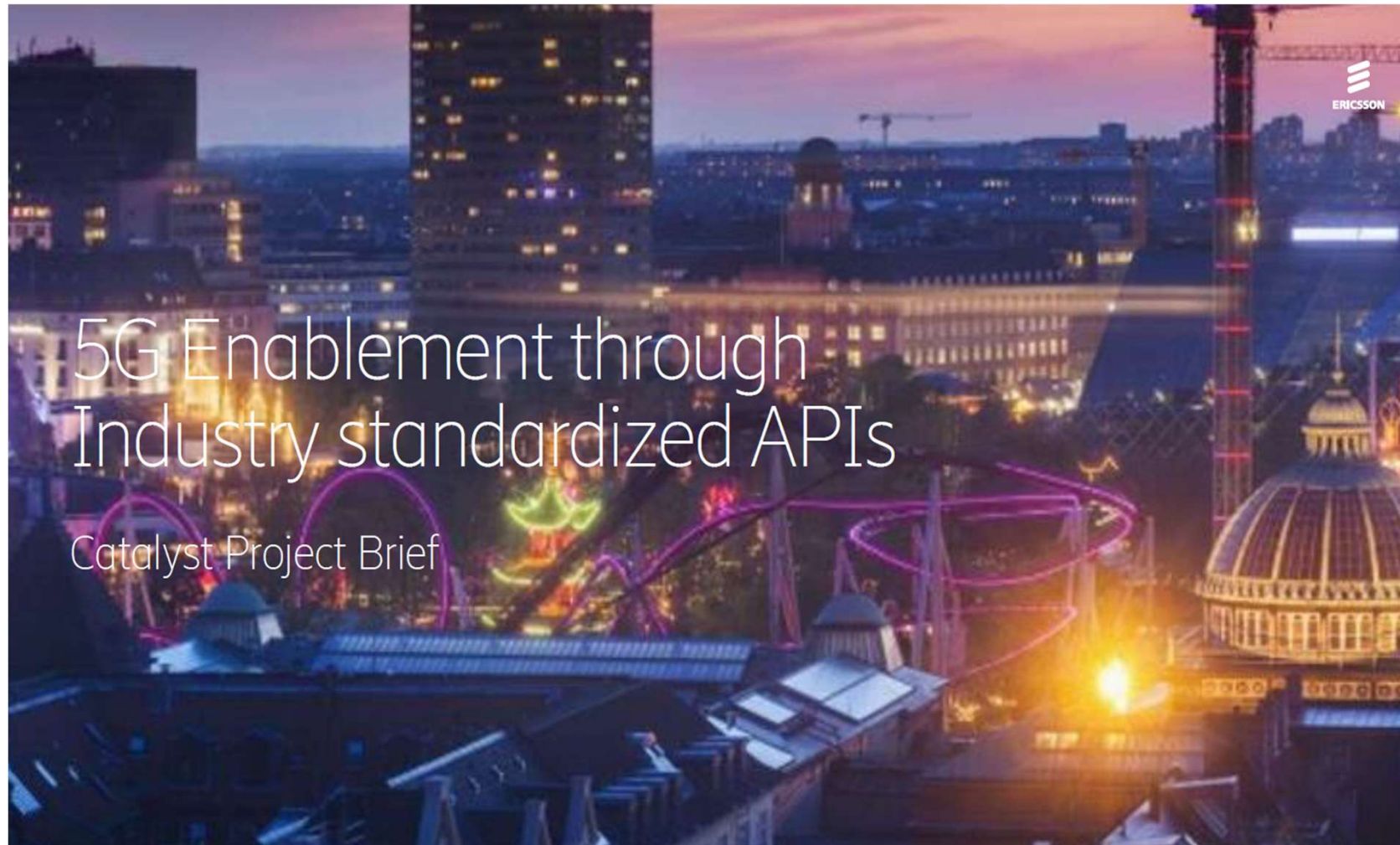
## Telefonica presentation





# 5G Enablement through Industry standardized APIs

## Ericsson presentation







**CAMARA**  
THE TELCO GLOBAL API ALLIANCE

A0B