



**CAMARA**

The Telco Global API Alliance

# Steering Committee

August 11<sup>th</sup> 2022

11.08.2022

# Agenda

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**01** Welcome new participants

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**02** Qorum given?

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**03** Project governance updates

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**04** Sub project status

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**05** Working group status

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**06** Proposals for API sub projects

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**07** AOB

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# Welcome new participants

## Public Github repository for CAMARA project



	MarkusKuemmerle Update PARTICIPANTS.MD	dce24f8 41 minutes ago	🕒 595 commits
📁	declarations	Update file-header.txt	15 days ago
📁	documentation	Update CAMARA Project - CNCF Project Proposal.md	12 days ago
📄	CODE_OF_CONDUCT.md	Update CODE_OF_CONDUCT.md	8 months ago
📄	CONTRIBUTING.md	Update CONTRIBUTING.md	12 days ago
📄	PARTICIPANTS.MD	Update PARTICIPANTS.MD	41 minutes ago
📄	ProjectCharter.md	Update ProjectCharter.md	11 days ago
📄	ProjectStructureAndRoles.md	Update ProjectStructureAndRoles.md	13 days ago
📄	README.md	Update README.md	12 days ago











1. Ensure that your email address is documented in your GitHub profile so that we can add you to the mailing list
2. Insert your name in the PARTICIPANTS.MD file and create a GitHub pull request

# Quorum given? Yes

5GFF	Janine Grasso (Miguel Carames, Kevin Smith)	✓
AT&T	Wiley Wilkins (Barry Elia)	✗
Capgemini	Shamik Mishra	✓
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 (Ralph Page)	✓
KDDI	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 (Shalin Hudda)	✓
Vodafone	Johanna Wood	✓



# Project governance updates

	MarkusKuemmerle Update PARTICIPANTS.MD	dce24f8 41 minutes ago	 595 commits
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Review the documents and provide feedback:

- Correct typos and bad grammar immediately in the files (and create a pull request)
- In case of needed content changes create a GitHub issue



# Project governance updates

## CAMARA mailing list

A mailing list for CAMARA is now implemented. Please accept the invitation!



In a second step then we are able to create additional lists for the steering committee, and one for each sub project and each working group.

**From:** Group Notification <[all+invite+3548748879367962721+4509890@lists.camaraproject.org](mailto:all+invite+3548748879367962721+4509890@lists.camaraproject.org)>  
**Date:** Tuesday, July 5, 2022 at 12:49 PM  
**To:** Rader, Nathan <[Nathan.Rader@telekom.de](mailto:Nathan.Rader@telekom.de)>  
**Subject:** [all] Invitation to join the [all@lists.camaraproject.org](mailto:all@lists.camaraproject.org) group

Hello,

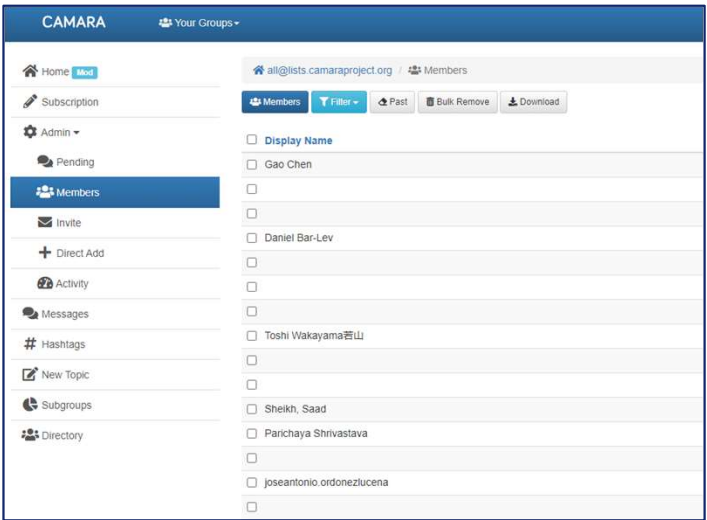
You have been invited by Markus Kuemmerle to join the Camara Project group [all@lists.camaraproject.org](mailto:all@lists.camaraproject.org).

If you have questions about this invitation, send them to [all+owner@lists.camaraproject.org](mailto:all+owner@lists.camaraproject.org).

To accept the invitation, please reply to this email, or you may [accept the invitation](#) on the website. This link will expire in 14 days, on 07/19/2022 at 10:48am UTC.

If you are not interested, or if [Nathan.Rader@telekom.de](mailto:Nathan.Rader@telekom.de) is not your email address, please ignore this email.

The Camara Project Team



# Project governance updates

## OPAG representation of CAMARA



Nomination of candidates until next meeting:

Please include your proposals here:

[https://github.com/camaraproject/rep\\_main/blob/main/documentation/MeetingMinutes/OPAG\\_Representation.md](https://github.com/camaraproject/rep_main/blob/main/documentation/MeetingMinutes/OPAG_Representation.md)



# Project governance updates

## Logo proposals available

Concept:  
Roof



Concept:  
Collective



### Meeting notes:

Preferred design has been discussed and decided that combination of clear font from the second row (3, 4) with logo from the last row (7, 8) could be a way to go forward.

Ask is to prepare such combination with different color options incl. blue only and transition blue of 3 and send to steering committee for discussion and decision.

Optionally to be discussed in the next steerco if decision cannot be made per email.

It was also discussed that descriptive quote "THE TELCO GLOBAL API ALLIANCE" should be part of the logo.



# Project governance updates

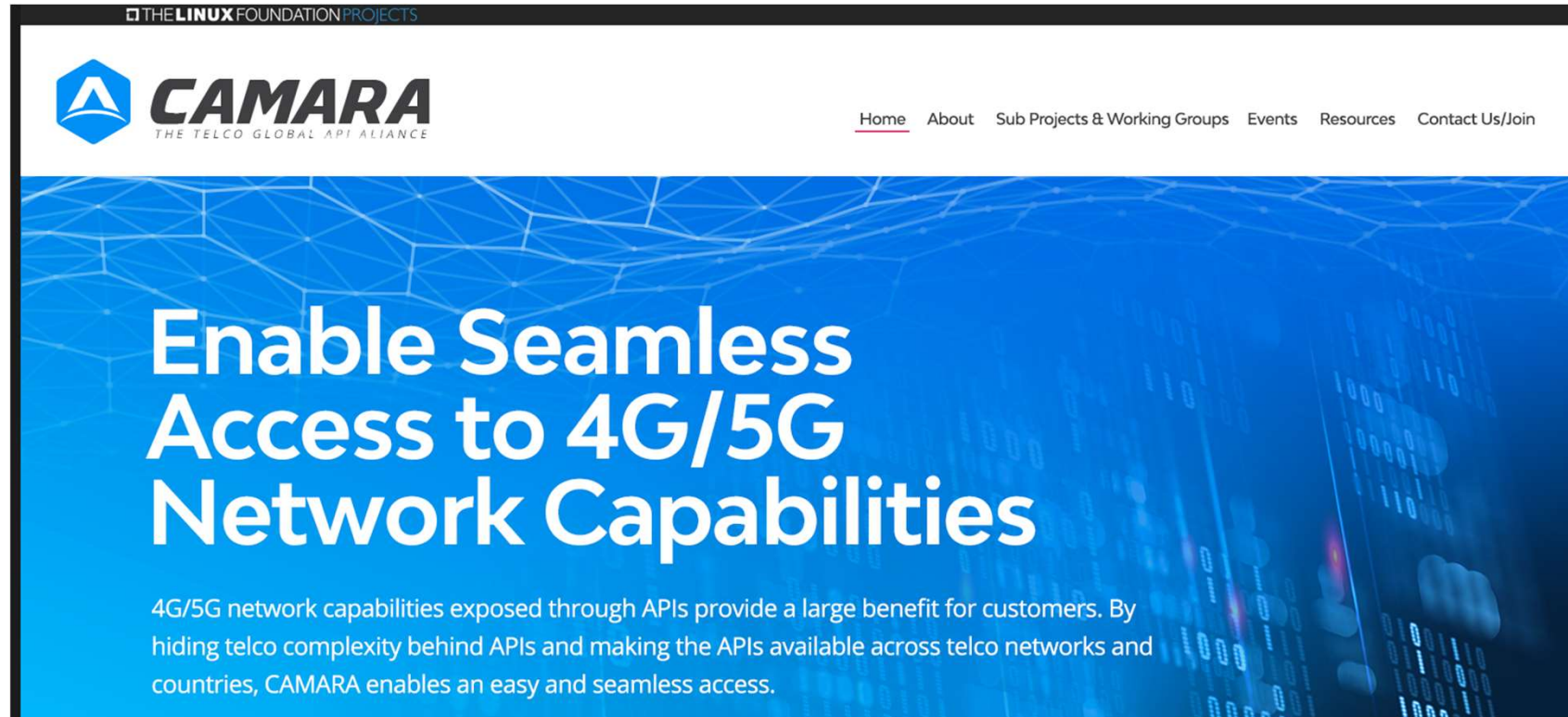
## Example CAMARA website available

(Previous) website is available here:

<https://camaraproject.github.io/index.html>

<https://camaraproject.org>

Example



Will be professionally revised by LinuxFoundation. Also Logo design has been ordered.

# 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

### Team / Maintainers:

- DT: Shilpa Padgaonkar, Herbert Damker, N. Wirzius, F. Dsouza
- Intel: Petar Torre, Francesc Guim
- Telefonica: José Antonio Ordoñez Lucena
- Telus: Ali Tizghadam
- Ericsson: Emil Zhang, Jan Friman, Joachim Dahlgren
- KDDI: Toshi Wakayama
- Orange: Sylvain Morel, Patrice Conil, Julien Giannandrea
- Vodafone: Eric Murray, Kevin Smith, Ivan Nieto
- BT : Milan Lalovic (OPAG observer)

Repository (incl. first draft API specs): <https://github.com/camaraproject/QualityOnDemand>

Please support  
with reviews

GitHub  
issue #7

PR 24/25  
GitHub  
issue #20

PR 26  
GitHub  
issue #26

PR 17/18/19  
GitHub  
issue #27

PR 30  
GitHub  
issue #29

GitHub  
issue #13

PR new  
GitHub  
issue #22

PR new  
GitHub  
issue #23

PR new  
GitHub  
issue #31

PR new  
GitHub  
issue #32

PR new  
GitHub  
issue #33

PR new  
GitHub  
issue #34

PR new  
GitHub  
issue #36

# Sub project status

## “Quality on Demand”

Deliverable	Required/Optional (R/O)	Current status
API Definition	R	Done, pull request with version reset to 0.1.0 needs review Some issues under discussion
API doc/user stories/testcases	R	3 Pull requests for User Story + 2 API's doc under review Comments from two reviewers, mostly addressed
Implementation	R	Implementation code for API version 0.1.0 contributed (PR #28) Reviews needed
API Reviews and extensions		Several discussions regarding <ul style="list-style-type: none"><li>• UE identification (also issue in Commonalities)</li><li>• IP address and port ranges</li><li>• Parameters ProtocolIn/ProtocolOut</li><li>• Stateless design</li></ul> Issues ready to be addressed <ul style="list-style-type: none"><li>• Ensure secure handling of callback URL</li><li>• Consistent usage of notificationUri vs notificationUrl</li></ul>

MILESTONE #2

# 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:

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>• Broadpeak: Tuan Tran, Christoph Neuman</li><li>• Capgemini: Deepak Gunjal</li><li>• DT: Yamina Kelm, Shilpa Padgaonkar</li><li>• GSMA: Tom Van Pelt, Mark Cornall</li><li>• Intel: Larry Horner</li><li>• KDDI: Toshi Wakayama</li><li>• MSFT: Landon Cox</li><li>• EdgeXR: Thomas Vits</li></ul> | <ul style="list-style-type: none"><li>• Nabstrack: Babu</li><li>• Orange: Alexandru Ciinaru, Sylvian Morain</li><li>• Scenera: Andrew Wajs</li><li>• TEF: Aure Martinez, Alex Harmand, Jose Ordonez</li><li>• TIM: Fabrizio Moggio, Marco Signorelli, Raffaele P.</li><li>• VF: Eric Murray</li><li>• 5GFF: Kevin, Senthooor, Brett, Syed, Mashesh, Raghuram</li></ul> |
|---|--|

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

PR 27

GitHub issue #28

PR 25

GitHub issue #29

PR 24

GitHub issue #30

PR 21

GitHub issue #31

PR 20

GitHub issue #14

PR 20

GitHub issue #19

Meeting minutes  
in the repository

# Sub project status

## “Edge Cloud”

### API contributions so far

API	Owner	YAML available?
MEC exposure and experience management API	5GFF	Y
Simple edge discovery API		
Application Artifacts Management API	Capgemini, DT, Orange, TEF, TIM	Y
Application Provider Resource Management API		
Application Onboarding Management API		
Application Instance Lifecycle Management API		
Code of former MobileEdgeX (planned)	Open Source	Y

### Next steps

- Providing YAML files for the last four APIs.
- Looking for synergies and touchpoints between APIs, avoid redundancy / overlappings
- Elaborate on user stories following ‘user story template’ agreed in Commonalities WG.



# 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, Mariusz Sozanski
- Telefonica: Jose Ordoñez-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

GitHub  
issue #3

GitHub  
issue #4

GitHub  
issue #26

GitHub  
issue #32

GitHub  
issue #53

GitHub  
issue #56

GitHub  
issue #59

PR51  
GitHub  
issue #4

GitHub  
issue #8

GitHub  
issue #31

GitHub  
issue #33

GitHub  
issue #55

GitHub  
issue #57

GitHub  
issue  
#60-62

# Working group status

## “Commonalities for APIs”

Deliverable	Format	Main Contributor	Current status
User story template	Word	Telefónica	Review closed Document accepted
API documentation template	Markdown	DT	Review closed Document accepted
API readiness minimum criteria checklist	Markdown	All	Review <b>closed</b> <b>Document accepted</b>
General principles doc (Incl. software engineering process)	PDF => Markdown	Telefónica All	Update in progress
Authentication and Authorization concept doc	Markdown	DT E///	<b>Review closed</b> <b>Document accepted</b>
Testing principles doc	Markdown	DT	Draft to be uploaded
Exposure gateway reference solution doc	Word	Telefónica	Review <b>closed</b> Document accepted
Standard resource description doc (Glossary)	Markdown	All	Document template Added
NEF reference solution	Source code	Nokia	<b>First solution made available for initial testing by Nokia.</b>
Dedicated portal instance for Camara	<i>Platform</i>	Telefónica	Requirements documented Decision to be taken

MILESTONE #1  
REACHED

MILESTONE #2

# Working group status

## “API Backlog”

### Scope:

- Defining and maintaining the list of APIs to be developed in CAMARA
  - API information include 1) API owner, 2) usability on selected use cases, 3) rough list of
  - Backlog elaborated based on: 1) OPAG priorities for the NBI and 2) CAMARA contributors
  - Journey from “API backlog WG” to “API family WG” captured in the next slide.
- Schedule: from now to 31.12.2022
- Location: virtually (bi-weekly, Thu, 15-16 CET/CEST)

### Team / Contributors

- Deutsche Telekom: Noel Wirzius
- Ericsson: Jan Friman, Miguel Garcia
- KDDI: Toshi Wakayama
- Scenera: Andrew Wajs
- Telefonica: Jose Ordonez-Lucena, Rubén Barrado González
- Vodafone: Kevin Smith, Eric Murray, Ivan Nieto

### Repository

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

GitHub issue #2	GitHub issue #12
GitHub issue #19	GitHub issue #20
GitHub issue #21	GitHub issue #29
GitHub issue #30	GitHub issue #43
GitHub issue #44	GitHub issue #45
GitHub issue #47	GitHub issue #48

Meeting minutes  
in the repository

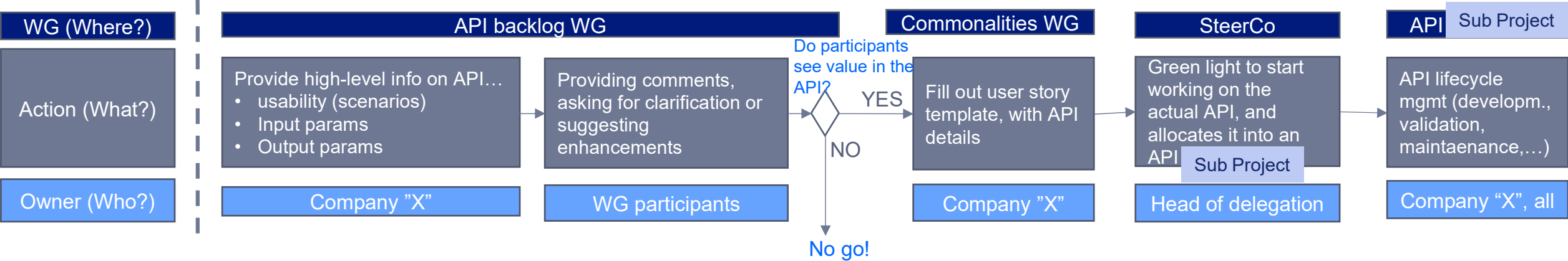
# Working group status

## “API backlog”

APIs in discussion

API	Owner	Github Issue
Request Network Status Traffic API	Scenera	#29
Roaming status API (will go to check device wg)	Vodafone	#43
Device Identifier API	Vodafone	#44
Anonymised Subscriber Identifier API	Vodafone	#45
Device Prioritization in WiFi API	TEF	#48

*Journey from “API backlog WG” to “API family WG”*



# Proposals for API Sub Projects

EdgeXR would like to contribute to CAMARA and maintain in CAMARA the former MEX edge cloud platform, as possible reference platform for

- EdgeCloud APIs
- QualityOnDemand APIs
- DeviceLocation APIs

Steering Committee is asked to decide on opening a new Sub Project for that.

## Meeting notes:

This point triggered a discussion about the way decisions about new sub projects and in general should be made by steering committee.

As the alliance work is getting more complex more informed decisions are needed.

Jason Hunt (IBM) proposes following process based on experience from other alliances that might be considered (see email from Jason):

- Proposers for new project should complete the template for a new sub-project
- Template should be posted (to github?) and notification sent to the TSC mailing list at least 1 week prior to the meeting where it will be voted upon.
- Proposers present at steering committee meeting & committee vote.
- If approved, repo is created and populated with initial README.MD, MAINTAINERS.MD, CODEOWNERS, and PARTICIPANTS.MD

Telefonica already proposed such process in the past.

In addition, it should be made sure that the reality check of proposed sub projects is done.

**IBM's and Telefonica's proposals to be discussed at next steerco**

**EdgeXR is kindly asked to distribute a presentation about the proposal and to present in next steerco.**



# Proposals for API Sub Projects



Telus will send a proposal/contribution for

- Sovereign route
- Emergency response API family
- Edge Cloud APIs

## Meeting notes:

TELUS still very much interested in starting the sub project, however development resources have to be secured first.

Ali Tizghadam (TELUS) will prepare a short video about the proposal, distribute before next steerco and present the proposal.

# Agenda next steering committee

Following points to be added into next meetings agenda

- New logo proposals and discussion / decision
- Discussion about decision process for new sub projects
  - Presentation IBM
  - Presentation Telefonica
- Presentation EdgeXR new sub project for reference implementation for EdgeCloud APIs
- Presentation TELUS new sub project



**CAMARA**

The Telco Global API Alliance

A0B