



5GZORRO
TECH TALK #5
TRUST IN
B5G NETWORKS
27 OCTOBER 2022
16:00 - 17:00 CET
LIVE
From UC3M - Madrid
and YouTube

Moderator

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5GZORRO TECH TALK#5 2022

Trust in B5G Networks

Oct. 17, 2022 – Next Oct 27th as part of its Final Event, the **5GZORRO** Consortium is pleased to hold its **LIVE Tech Talk#5** from 16:00 to 17:00 CET **LIVE** from the **UC3M Leganés Campus**:

UC3M - Auditorium Padre Soler:

Salón de Grados -1st floor

Free entrance - No Registration required!
(Capacity 171 people)

This final **5GZORRO Tech Talk#5** will address an issue that in the last years has constantly increased and affects the figures and type of relationships among entities: establishing trustworthiness and security cross-operators/domains services as solution in the increasing number of connections in the mobile telecommunication networks.



As described by the **IEEE Communication Society**, the Beyond fifth generation (B5G) networks, or 6G, is the next-generation wireless communications systems that will radically change how Society evolves. Edge intelligence is emerging together with Artificial Intelligence (AI) to the proximity of end users, empowering B5G networks. AI systems offer locally at edge networks powerful computational processing and massive data acquisition. AI helps to obtain efficient resource scheduling strategies in a complex environment with heterogeneous resources and a massive number of devices, while meeting the ultra-low latency and ultra-high reliability requirements of novel applications, such as: intelligent transport systems, self-driving cars, Industry 4.0, remote operation, AR/VR services, e-health, smart energy, etc. By integrating AI functions into edge networks, radio networks become service-aware and resource-aware to have a full insight into the operating environment and can adapt resource allocation/orchestration in a dynamic manner.

But all these new services lack of an indisputable element if we want to ensure future trustworthy ecosystems with profitable interactions across domains, the fact that entities should rely on each other. Thus, **mobile telecommunication networks demand new trust approaches** that allow the development of feasible communications in 5G and beyond networks, through which a group of entities can establish chains of **services between cross-operators/domains with trustworthiness and security**.

One of the **key obstacles** to achieving generalized connectivity beyond 5G networks is the **lack of automatized, efficient, and scalable trust models for establishing trustworthiness and security**. Hence, we open the discussion on new requirements, features, and proposals to be considered to achieve cross-domain reliable connectivity in 5G/6G environments.

LIVE & STREAMED from de Salón de Grados, Auditorium Padre Soler we will have two invited expert Speakers:

- **Tooba FAISAL**, PhD Student - Department of Engineering at King's College London.
- **Raimo KANTOLA**, Prof. of Networking Technology, Security, and Trust - Aalto University Espoo, Finland.

While from the 5GZORRO project will participate:

- **Diego R. LÓPEZ**, Head of Technology Exploration in Telefónica I+D, Madrid, Spain.

The Tech Talk will be moderated by:

- **Gregorio MARTÍNEZ PÉREZ**, Prof. Computer Science at the University of Murcia, Spain.

Collaboration in research and development projects, such as **5GZORRO**, are exploring innovative and **dynamic spectrum solutions**, including those enabled by artificial intelligence and blockchain technologies. Specific topics and many questions will be discussed during the event, among others:

- New requirements and evolution of existing models.
- Trust from a telecom point of view.



- Standardization efforts.
- Business models.

In these past 36 months, due to the very innovative nature of the core topics covered by **5GZORRO** research, the Consortium has worked very hard and invest a significant amount of resources in generating awareness and visibility for its results, both within the scientific community working on 5G and within network industry, operators, regulators, SMEs.

during the **5GZORRO Final Event**, we aim to show more about the [5GZORRO innovative platform](#) and speak with various stakeholders about the incredible opportunities offered by our proposals.

For this reason, next 27th Oct. from [Universidad Carlos III Madrid – Leganes](#), **5GZORRO** Consortium is planning several activities:

➤ **14:00 CET - Opening Speech**

- Shuaib Siddiqui – i2CAT, Project’s coordinator will hold a 5GZORRO presentation on latest outcomes.

- Giacomo Bernini – Nextworks, and Project's technical manager will give a technical overview of achievements.

➤ **15:00 CET – 5GZORRO Demos – Hands-on Platform**

UCs Leaders will be showing and explaining three **DEMOS of 5GZORRO Platform** from the representative UCs and explain their value proposition:

DEMO 1: Automated 5G Marketplace for real-time Resources Allocation by Nextworks

From **UC1 - Smart Contracts for Ubiquitous Computing/Connectivity**: to show how an automotive manufacturer can obtain 5G network and computing resources from multiple providers.

5GZORRO
5GZORRO FINAL EVENT
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14:00 - 17:00 CET

14:00 CET 5GZORRO Platform Presentation
Opening Speech by
Project Coordinator and Technical Manager

15:00 CET 5GZORRO DEMOS
Hands-on Platform
Demo1: Automated 5G Marketplace for real-time Resources Allocation
Demo2: Automated and Secured Transactive Spectrum Sharing
Demo3: Pervasive vCDN Services

16:00 CET TECH TALK #5
Trust in B5G Networks
Exploring with guests expert speakers the new requirements and characteristics introduced by B5G and 6G networks, which have not been covered by previous solutions. Moderates Prof. Gregorio Martínez Pérez, University of Murcia

 
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871533

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27
OCTOBER
LIVE & STREAMED

SAVE THE DATE

➤ **15:00 CET – 5GZORRO Demos – Hands-on Platform**



DEMO 2: Automated and Secured Transactive Spectrum Sharing by i2CAT

From **UC2 - Dynamic Spectrum Allocation**: to show 5GZORRO Marketplace capability for dynamic spectrum trading through the use of SpecTokens.

DEMO 3: Pervasive vCDN services by Intracom

From **UC3 - Pervasive vCDN Services**: to show the AI driven operation of commercial CDN services.

Finally, to conclude this Final Event the last Tech Talk from a well-received series will take place hosting relevant guest speakers to approach and discuss about another interesting topic:

➤ **16:00 – 17:00 CET 5GZORRO Tech Talk#5**

Trust in B5G Networks

The event will be **LIVE from UC3M & Streamed** on the project's website, socials, and YouTube channel.

SAVE the DATE!

To read further insights about 5GZORRO technology, research, and contributions visit:

www.5gzorro.eu/papers/

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5GZORRO CONSORTIUM



5GZORRO project has the goal of developing envisaged solutions for zero-touch service, network and security management in multi-stakeholder environments (ubiquitous), making use of Smart Contracts based on Distributed Ledger Technology to implement required business agility.

The **5GZORRO consortium is formed by 12 partners from 6 European countries** and funded by the **European Commission under the 5G PPP Phase 3, Part 4: 5G Long Term Evolution programme.**

More info: www.5gzorro.eu

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