



EVOLVED-5G

NEWSLETTER # 12

(October – December 2023)



[evolved-5g.eu](https://evolved-5g.eu)

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## ISSUE HIGHLIGHTS

The twelfth issue of EVOLVED-5G Newsletter presents the project activities during the period October – December 2023, focusing on the communication and dissemination activities, upcoming events, and deliverables.

In numbers, the EVOLVED-5G activities are:

- 4 Journal - Conference Papers
- 2 White Papers
- 1 Article
- Participation at CSCN 2023
- EVOLVED-5G Service Package
- ETSI Software Development Group OpenCAPIF
- InfoCom 2023
- 5 5GPPP Activities
- 7 Submitted Deliverables
- 1 GA Plenary Meeting



## Communication and Dissemination Activities

### Papers

- The EVOLVED-5G conference paper entitled **“A Chatbot Assistant for Optimizing the Fault Detection and Diagnostics of Industry 4.0 Equipment in the 6G era”** was accepted at IEEE Conference on Standards for Communications and Networking (CSCN) - Track on Verticals, Services and Applications, 6-8 November 2023, Munich. You may find more information here: <https://cscn2023.ieee-cscn.org/>



- The EVOLVED-5G conference paper entitled **“Exploiting Core Openness as Native-AI Enabler for Optimized UAV Flight Path Selection”** was accepted at IEEE Conference on Standards for Communications and Networking (CSCN) - Track on Verticals, Services and Applications, 6-8 November 2023, Munich. You may find more information here: <https://cscn2023.ieee-cscn.org/>



- The EVOLVED-5G journal paper entitled **“AutomAdapt: Zero Touch Configuration of 5G QoS Flows Extended for Time-Sensitive Networking”**, submitted at IEEE Access Volume 11, has been published. You may find it available online here: <https://ieeexplore.ieee.org/document/10209171>



- The EVOLVED-5G conference paper entitled **“xeLTL: Extending eLTL with variables”**, submitted at PROLE 2023 (Ciudad Real), has been published. You may find it available online here: <https://biblioteca.sistedes.es/entities/art%C3%ADculo/f86d1833-9519-451d-bc88-384fdcf16da6>

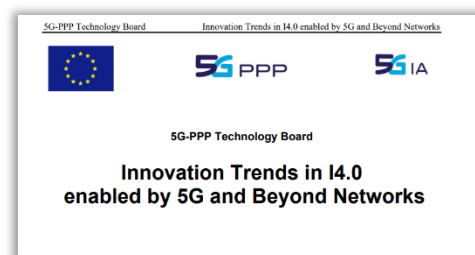


## White Papers

- The 5G PPP white paper entitled **“5GPPP Programmatic operation projects heritage and interactions”**, is now available. The work is consolidating and concluding the initial work achieved with the PPP Heritage Figure Version n°1 released in June 2020 (<https://5g-ppp.eu/5g-ppp-heritage/>) and that was one of the PPP “Reference” Figures, widely used to depict the Programmatic connections between projects. You may find it online here: [https://5g-ppp.eu/wp-content/uploads/2023/10/5GPPP\\_Heritage\\_Brochure2023\\_web.pdf](https://5g-ppp.eu/wp-content/uploads/2023/10/5GPPP_Heritage_Brochure2023_web.pdf)



- The **“Innovation Trends in I4.0 enabled by 5G and Beyond Networks”** is now available. This document reports the progress achieved by the 5G Public-Private Partnership (5G PPP) during 2022. For reasons of completeness, the document briefly presents the overall 5G PPP framework. It also analyses the activities that were performed under this framework either by the 5G Initiative (i.e., 5G PPP Projects, 5G PPP working groups, Steering and Technology Boards) or the 6G Smart Networks and Services Industry Association (6GIA), i.e., Verticals Engagement Task Force, 6G-IA working groups and specific activities. You may find it online here: <https://5g-ppp.eu/wp-content/uploads/2023/10/Innovation-Trends-in-I4.0-enabled-by-5G->



## Articles

- The **“New ETSI group to build on 3GPP’s Common API framework”** online article by mobileeurope.co.uk is now available. In this article you can find information on how the new ETSI group aims to enable developers to test network applications using OpenAPI to publish and consume APIs, with the aim of reducing friction and speeding deployment in 5G Networks. Find the article online here: <https://www.mobileeurope.co.uk/new-etsi-group-to-build-on-3gpps-common-api-framework/>



## EVOLVED-5G at CSCN 2023



EVOLVED-5G project was present at the **IEEE Conference on Standards for Communications and Networking 2023** which took place in Munich at the 6–8 November 2023 period.

Standards play a key role in the success of the communications industry, as enablers of global systems interoperability. IEEE CSCN aims for closing the gap between researchers, scientists and standards experts from academia, industry and different standardization bodies. It will serve as a platform for presenting and discussing standards-related topics in the areas of communications, networking and related disciplines, facilitating standards development as well as cooperation among the key players. IEEE CSCN will deliver high-quality technical as well as visionary papers, which will be reviewed and selected by an international Technical Program Committee (TPC) representing both academia and industry, with a strong standardization background.

EVOLVED-5G was represented by Georgios Makropoulos (NCSR “DEMOKRITOS”) who presented the following accepted papers:

- A Chatbot Assistant for Optimizing the Fault Detection and Diagnostics of Industry 4.0 Equipment in the 6G era,
- Exploiting Core Openness as Native-AI Enabler for Optimized UAV Flight Path Selection

You may learn more here: <https://cscn2023.ieee-cscn.org/>



## EVOLVED-5G Service Package

The EVOLVED-5G Service Package is a software bundle to facilitate developers for the creation, verification, validation and certification of Network Applications. It is Virtual Machine (VM) as a downloadable package to be installed for local use. The EVOLVED-5G Service Package eases and allows developers to initiate in the development of Network Applications. Within this VM, the developer can interact with the Dummy Network Application to understand how a Network Application does the network communication with NEF and TSN through CAPIF. You may find more information here: <https://evolved-5g.eu/wp-content/uploads/2023/12/EVOLVED-5G-Press-Release-Service-Package-12-Dec-2023.pdf>



## ETSI Software Development Group OpenCAPIF

ETSI Software Development Group OpenCAPIF (SDG OCF) is developing an open-source Common API Framework, as defined by 3GPP, allowing to expose and consume APIs in a secure and consistent way. The group liaises with relevant standards bodies and projects working on network transformation such as the 3GPP, TM Forum, ETSI ZSM, ETSI NFV, ETSI MEC, OpenSourceMANO, TeraFlowSDN and OpenSlice. OpenCAPIF results from EU Research project EVOLVED-5G project. ETSI Members and non-member organizations join ETSI OpenCAPIF by signing the SDG OCF Agreement. Participation is free for ETSI members, SMEs, Universities, Public Research Bodies and User and Trade Associations. Individual Contributors and Users can create an Individual Account. Individual Contributors shall accept the Individual Contributor License Agreement. You may find out more here: <https://ocf.etsi.org/>





You may find all the sessions including our project's here: <https://vimeo.com/893888341>



## 5GPPP ACTIVITIES

### 5GPPP Newsletters

- October 2023  
<https://5g-ppp.eu/newsletter-31-october-2023/>

### 5GPPP Newsflashes

- September 2023 #80  
<https://5g-ppp.eu/newsflash-september-2023/>
- October 2023 #81  
<https://5g-ppp.eu/newsflash-october-2023/>
- November 2023 #82  
<https://5g-ppp.eu/newsflash-november-2023/>
- December 2023 #83  
<https://5g-ppp.eu/newsflash-december-2023/>



## Submitted Deliverables

**D5.4 System level evaluation and KPI analysis (Final) (M34):** Final report on system evaluation and KPIs analysis based on data collected during the system testing (final release)

**D5.5 Network Apps Validation and onboarding to Open Repository (Final) (M34):** Final report on the use of validation tools and open repository (final release)

**D5.6 Network Apps Certification and Release to Marketplace (Final) (M34):** Final report on the certification of Network Apps and their release to marketplace (final release)

**D6.3 Training Material and SMEs and Startup Acceleration Program Activities (Final) (M36):** Final report on the developers-oriented events and the activities of the SMEs and Startup Acceleration Program

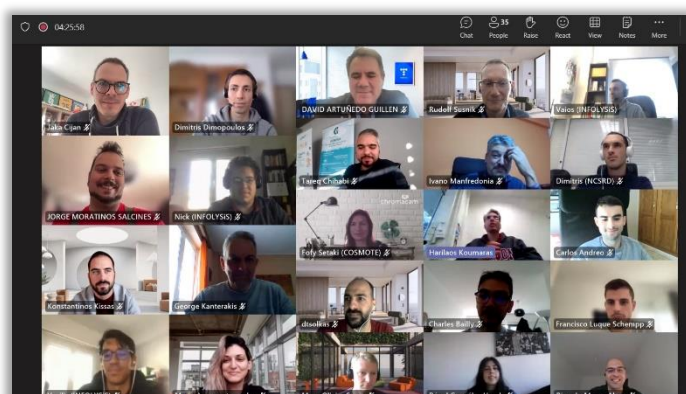
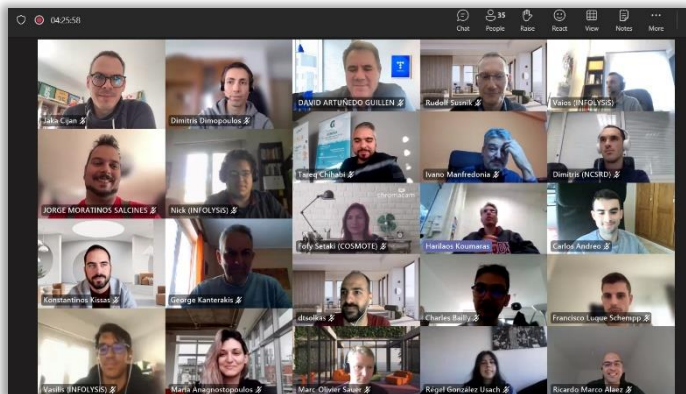
**D6.4 Technoeconomic analysis and Stakeholders engaging (Final) (M36):** Final report on the technoeconomic analysis

**D7.5 Dissemination, Communication and 5GPPP Engagement Activities (Final) (M36):** Final report on the dissemination, communication and 5G-PPP engagement activities

**D7.6 Standardisation, Innovation, Exploitation and Technology Transfer Activities (Final) (M36):** Final report on the innovation, exploitation as well as standardization activities of the project

## 11<sup>th</sup> GA Plenary Meeting

The **11<sup>th</sup> Plenary Meeting** of the EVOLVED-5G took place on the 23<sup>rd</sup> of November. This time, partners met online to discuss the current status of the project and set the pace for the final period. Besides the fact that it was a virtual event, partners had the chance to take the traditional group photos.



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Call: H2020-ICT2018-2020

Topic: ICT-41-2020

Type of Action: Innovation Action

Duration: 36 Months

Start Date: 1 January 2021

