



5G INTELLIGENT AUTOMOTIVE NETWORK APPLICATIONS

Newsletter

July 2022

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5G-IANA: a Horizon 2020 project on 5G Intelligent Automotive Network Applications aiming at providing an open 5G experimentation platform, on top of which third party experimenters, i.e., Small and Medium Enterprises (SMEs) in the Automotive-related 5G-PPP vertical will have the opportunity to develop, deploy and test their services.

Year 1 of 5G-IANA project

5G-IANA project has recently completed its first year

During the first year of the project, 5G-IANA has been very active in terms of management, technical, and dissemination/ communication-related activities. With respect to management activities, the project has set up an efficient set of communication and collaboration platforms, tools, and procedures, while project-, risk-, quality-, data- and innovation-management plans have been designed. Moreover, a close monitoring and contribution to 5G-PPP Working Groups has been coordinated. With respect to technical progress, 5G-IANA has specified the system requirements and architecture of the Automotive Open Experimentation Platform (AOEP), on top of which third-party experimenters will be provided with tools and methods to successfully and effectively deploy and test their automotive services. Finally, regarding dissemination and communication activities, the project branding and communication tools have been designed, while project partners have participated in major events, conferences, and congresses, as well as already published/submitted a rich set of technical papers.

A number of dissemination activities and events have also taken place during this time.

Issue 2 of 5G-IANA's newsletter summarizes the progress of the project during this first year of the project. Let's have a look!



Consortium

NOKIA

Fivecomm

universität
uulm

FSCOM

vicomtech
MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

INCITES
Consulting S.A.

Internet
INSTITUTE

ETIZET
ICCS

HIT HYPERTECH
INNOVATIONS

UBI TECH
ubitech.com solutions

oseven

links

Telekom Slovenije

bylogix

NEXTWORKS
HEADING THE FUTURE

Cogninn

Communication & Dissemination activities

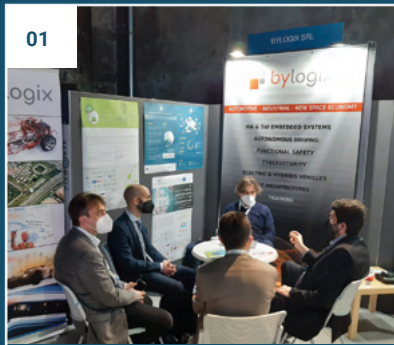
During this first year of the project, we have carried out a great number of Communication and Dissemination activities:

5G-IANA promotional materials

We have carried out and published 5G-IANA's printed promotional materials: a **flyer**, a **roll up**, and a **poster**.



Presentations at Conferences and Events:



01

●●
**Project Presentation:
Bylogix's exhibition
booth at the VTM 2022
(30th & 31st March
2022), Turin**



02

●●
**Joint Special Interest
Session: SIS 10 "SIS 10
Netapps for
Verticals". EuCNC &
6G Summit 2022, (8th
June 2022), Grenoble**

Moderated by 5G-IANA's
Project Coordinator Eirini
Liotou from **ICCS**,
including the
participation of 5G-IANA
partners **Links
Foundation** and
Internet Institute.



03

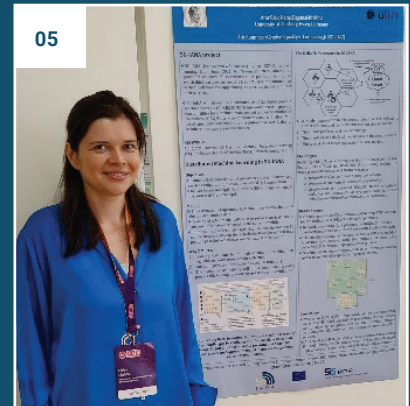
●●
**Joint Special Interest
Session: SIS 10 "SIS 10
Netapps for Verticals".
EuCNC & 6G Summit
2022, (8th June 2022),
Grenoble**

In a joint session with
5GASP project, 5G-IANA
partner **Nextworks S.r.l**
-represented by
Francesca Moscatelli-
introduced the
Connected and
Automated Mobility and
presented 5G-IANA Use
Cases.



04

●●
**Project Exhibition Booth
at the CINEA Connecting
Europe Days (28th &
29th June 2022), Lyon.**



05

●●
**Poster on "Distributed
Machine learning for
Network Monitoring
and predictive QoS in
Automotive
Application", 4th
Summit on Gender
Equality in Computing
(15th June), Thessaloniki**
Eirini Liotou, 5G-IANA
Project Coordinator from
ICCS, presented the
Poster "Distributed
Machine Learning for
Network Monitoring and
Predictive QoS in
Automotive Applications".

Publications



V. Sourlas, K. V. Katsaros, A. Xirofotos, D. Klonidis, E. Bonetto, D. Brevi, R. Scopigno, F. Moscatelli, M. Wimmer, B. Haetty, S. Schulz, A. Rizk, M. Buchholz & A. Amditis, **'5G-IANA: A 5G Experimentation Platform for Intelligent Automotive Network Applications'**. In the proceedings of IEEE 5G for CAM Virtual Summit, Brussels (Virtual), 11–12 May 2021.

G. Drainakis, P. Pantazopoulos, K. V. Katsaros, V. Sourlas, and A. Amditis, **'On the Resource Consumption of Distributed ML'**. In the Proceedings of IEEE International Symposium on Local and Metropolitan Area Networks (IEEE LANMAN), Virtual Conference, 12–13 July 2021.



Sourlas, V., Rizk, A., Katsaros, K. V., Pantazopoulos, P., Drainakis, G. & Amditis, A. (2021, September) **'A Distributed ML Framework for Service Deployment in the 5G-based Automotive Vertical'**. In The International Mediterranean Conference on Communications and Networking, IEEE MeditCom, Athens, 7- 10 September 2021.

Ippokratis Sartzetakis, Polyzois Soumplis, Panagiotis Pantazopoulos and, Konstantinos V. Katsaros, Vasilis Sourlas and Emmanouel Varvarigos, **'Resource Allocation for Distributed Machine Learning at the (Edge-Cloud) Continuum'**, IEEE International Conference on Communications (ICC): Communication, QoS, Reliability and Modeling Symposium (IEEE ICC'22 - CQRM Symposium)", Seoul, Korea (South), 16 - 20 May 2022.



5G for CAM Working Group - 6G-IA, White Paper **"From 5G to 6G Vision - A Connected and Automated Mobility (CAM) perspective"**, June 2022.

And of course, all the latest news about our project are available on our website!

www.5g-iana.eu



Latest project news

5G-IANA booth at CINEA Connecting Europe Days

► [Read more](#)



5G-IANA at the 4th Summit on Gender Equality in Computing

► [Read more](#)



5G-IANA Interim Review Meeting

► [Read more](#)



5G-IANA will participate at the 2022 EuCNC & 6G Summit

► [Read more](#)



5G-IANA will participate at ALIS'22

► [Read more](#)



5G-IANA General Assembly (25th May 2022)

► [Read more](#)



5G-IANA at the ITS European Congress in Toulouse

► [Read more](#)

BLOG POST [HIT]: AR and VR for in-vehicle entertainment

► [Read more](#)



5G-IANA project presented at the VTM Torino 2022

► [Read more](#)



BLOG POST [Telekom Slovenije]: Role of 5G networks in vehicle to infrastructure telecommunications

► [Read more](#)



BLOG POST [VICOM]: Local Dynamic Maps (LDM) for cooperative data fusion

► [Read more](#)



BLOG POST [LINKS]: The importance of a flexible communication board for testing and developing CCAM applications

► [Read more](#)



BLOG POST [ICCS, ULM, NOKIA]: Distributed Machine learning for Network Monitoring and predictive QoS in Automotive Applications

► [Read more](#)

Deliverables

The first two sets of deliverables on Project Management and Communication & Dissemination have been submitted on M06 and M09 of the project. The first deliverable about Specifications of the 5G-IANA architecture has been submitted on M12.

Project Management

5G-IANA - D1.1 - Project management plan
5G-IANA - D1.2 - Quality management plan
5G-IANA - D1.3 - Innovation management plan
5G-IANA - D1.4 - Data Management Plan

Project Management

5G-IANA - D7.1 - Brand identity and guidelines
5G-IANA - D7.2 - Communication strategy and plan
5G-IANA - D7.4 - Communication tools
5G-IANA - D7.6 - Dissemination plan

Specifications

D2.1 Specifications of the 5G-IANA architecture

Ethics requirements


D8.1 H - Requirement No. 1

All 5G-IANA public deliverables are available online for downloading at our website:

www.5g-iana.eu/resources/



Events

25th May 2022 

5G-IANA online General Assembly

5G-IANA third General Assembly took place on 25th May 2022 on a virtual session. It marked an important milestone, taking place after almost achieving the first year of the project. The partners reviewed the progress made during the first 12 months of the project implementation and addressed successful discussions on the next steps to take on.



2nd – 3rd June 2022 

5G-IANA Interim Review Meeting in Athens

Our consortium physically met on the 2nd and 3rd June 2022 for the first Interim Project Review. The meeting took place in Athens and was organised by ICCS, our project coordinator.



In a friendly atmosphere, partners presented in detail the progress and advancements achieved during the first year of the project as well as the planning for the upcoming period. The Project Officer and the Expert Reviewers representing the European Commission, provided very constructive and valuable feedback and recommendations for the next period of the project.

Upcoming events

01

5th – 8th Sep 2022 

IEEE International Mediterranean Conference on Communications and Networking, Athens . Workshop 'NetApps into Beyond 5G and 6G Networks'



IEEE International Mediterranean Conference on Communications and Networking
5–8 September 2022 // Athens, Greece



03

6th – 9th Dec 2022 

ViSNext 2022: 2nd ACM CoNEXT Workshop on Design, Deployment, and Evaluation of Network-assisted Video Streaming. Rome, co chair and keynote speech.



02

12th – 14th Oct 2022 

IEEE Future Networks Forum 2022: Symposium on 5G for Connected and Automated Mobility, Montreal.



IEEE Future Networks World Forum
12-14 October 2022 | Montreal, Canada

04

4th – 8th Dec 2022 

IEEE GLOBECOM 2022 Workshop 23: The emerging 5G and 6G ecosystems, Rio De Janeiro (4-8 December 2022). Co-organization of '5G/6G ecosystem in the context of Network Monitoring.



IEEE Global Communications Conference
4–8 December 2022 // Rio de Janeiro, Brazil // Hybrid: In-Person and Virtual Co
Accelerating the Digital Transformation through Smart Communications

WS23: THE EMERGING 5G AND 6G ECOSYSTEMS

