5G INTELLIGENT AUTOMOTIVE NETWORK APPLICATIONS

Newsletter
November 2022

INSIDE THIS ISSUE

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.

The third issue of 5G-IANA Newsletter summarises 5G-IANA's activities from August to November 2022.

This issue puts the focus on the communication and dissemination activities addressed during this five-month period, including our participation in Workshops and Special Sessions, Paper and Project presentations; the launch of the project's Zenodo Community; the first update of the project's website; the launch of the project's first official video!

Following the project's interim review (June 2022), 5G-IANA is on a fast track towards developing and releasing the first release of the Automotive Open Experimentation Platform (AOEP). During the past four months, the design of the AOEP platform has progressed in detail, with the objective of opening up and exposing proper interfaces to experimenters of automotive-based applications in the 5G ecosystem. Moreover, useful Key Performance Indicators (KPIs) have been defined for the purposes of evaluation and analysis not only of the 5G-IANA Use Cases but also of third-party services and NetApps of potential experimenters on the AOEP.

5G PPP
The 5G Infrastructure Public Private Partnership

Communication & Dissemination activities

5G-IANA's first video is OUT!
Visit **www.5g-iana.eu** to watch it

Update of the Website News section

In this new section you can find:

✓ News about the project
✓ Upcoming events where 5G-IANA will participate
✓ Blog posts from our partners

5G-IANA Zenodo Community

The 5G-IANA Zenodo Community has been created in month 14 of the project and is available here. The scope of this community is to make freely available and under open access status all public deliverables, scientific publications and publicly available results of the 5G-IANAProject. Do you want to have a look?

5G-IANA Brochure

5G-IANA brochure has been published and it is available for download here.

Communication & Dissemination activities

During the past 4 months our project has participated in a significant number of dissemination activities.

Workshops and Sessions

Workshop Session "NetApp Platforms into Beyond 5G and 6G Networks". Second IEEE International Mediterranean Conference on Communications and Networking (MeditCom) (5-8 September 2022), Athens.

Represented by ICCS members Dr. Konstantinos Katsaros and Dr. Eirini Liotou. Dr. Katsaros presented the definition and concept of a NetApp from a 5G-IANA perspective.

Session "NetApps modelling for automated orchestration and experimental validation of 5G-enabled services in the Transport & Logistics domain" 5G-PPP Technical Board Meeting" (6 October 2022), Athens.

During the 5G-PPP Technical Board Meeting in Athens, Giada Landi from NXW performed this presentation as a joint VITAL-5G & 5G-IANA activity.

Paper presentation

Paper Presentation at the "5G FOR CAM SYMPOSIUM". IEEE Future Networks World Forum (12-14 October 2022), Montreal.

Thanos Xirofotos from UBITECH presented the paper "The 5G-IANA platform: Bringing far-edge resources and ML potential to the disposal of automotive third parties".

Project presentation

01

●●

5G-PPP Steering Board and Technology Board meetings (5-6 October), Athens.
5G-IANA project was present during the 5G-PPP Steering Board and Technical Board meetings that were hosted by our Project Coordinator in Athens.
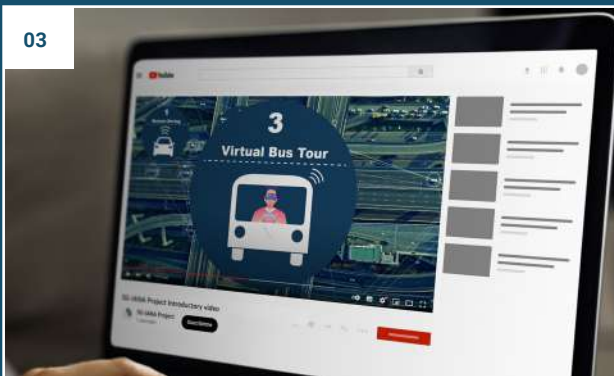

02

●●

Project presentation at IZB International Suppliers Fair (11-13 October 2022), Wolfsburg.
Our partner BYL presented 5G-IANA project to the attendees of the Europe's leading trade fair for the automotive supplier industry.
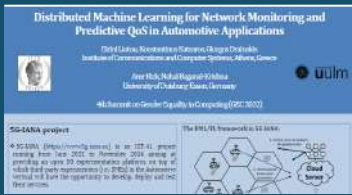

03

●●

Video at the European Commission Stand. TRA Conference (14-17 November), Lisbon.
5G-IANA's first official video was launched at the TRA Conference in Lisbon.
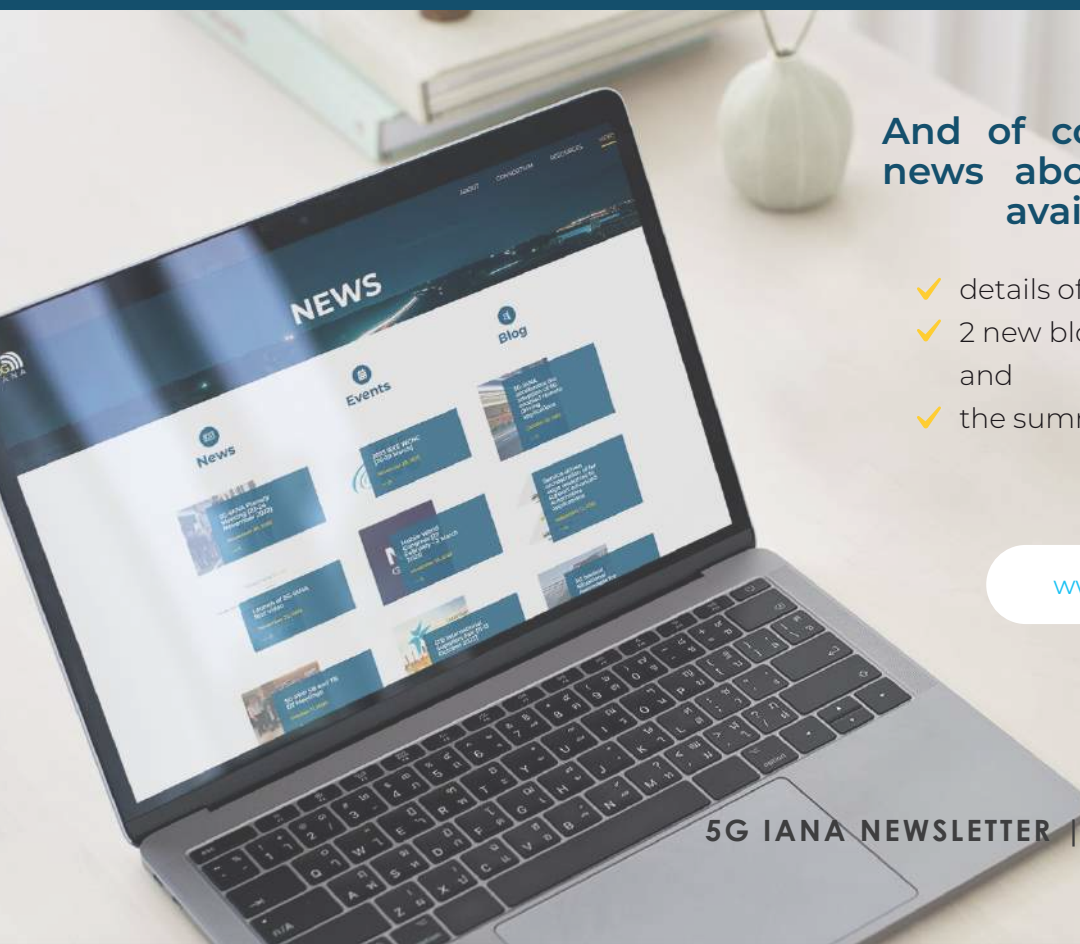
Publications

Liotou E.; Katsaros K. V.; Drainakis G.; Rizk A.; Baganal-Krishna N. **'Distributed Machine learning for Network Monitoring and predictive QoS in Automotive Applications'**. In the 4th Summit on Gender Equality in Computing (GEC 2022), Thessaloniki, 15th June 2022.

5G-PPP Software Network Working Group NetApp. **"Opening up 5G and beyond networks 5G-PPP projects analysis"**. September 2022.

Moscatelli F.; Xirofotos T.; Rizk A.; Baganal-Krishna N.; Bonetto, E.; Liotou E.; Amditis A. **"5G-IANA platform: Bringing far-edge resources and ML potential to the disposal of automotive third parties"**. In the proceedings of IEEE Future Networks World Forum, Symposium on 5G for Connected and Automated Mobility, Montreal (virtual), 14 October 2022.

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

✓ details of our participation at 7 events
✓ 2 new blog posts from our partners and
✓ the summary of all upcoming events!

www.5g-iana.eu

Events

5G-IANA F2F Plenary Meeting (November 2022), Torino

The consortium gathered for a two-day Plenary Meeting at LINKS premises in Torino, Italy. The partners reviewed the progress of the project, the status of the current activities and discussed the roadmap of activities for the upcoming months.

Upcoming project events

WEBINARS

The first set of 5G-IANA webinars is about to start. Stay tuned for the dates to be advertised!

- Webinar **"5G-IANA reference architecture and NetApps"**.

- Webinar **"Promotion of the 5G-IANA AOEP Release 1"**.

Upcoming project events

5G-IANA FIRST OPEN CALL

As part of the 5G-IANA project, an **Open Call will be opened for SMEs**, which will aim to invite third parties with their network applications so as to run them on top of the platform provided by the project, making use of 5G connectivity. The Open Call will take place in **2 phases**, with the first starting **in early 2023**, and the second towards the end of 2023, and will award 3 prizes of 15K each to 3 selected SMEs.

The Open Call will take place in two phases, with the first starting in early 2023, and the second towards the end of 2023, and will award at least 3 prizes of ~10-15K each to selected SMEs. In case you would like to be informed about the open call or express your early interest, you may send an e-mail to info@5g-iana.eu.

Stay tuned for more details to come through 5G-IANA website and social media!

TAKE PART IN OUR 5G-IANA SURVEY

As part of the 5G-IANA project, we have created a survey to collect expectations from potential third-party experimenters regarding the 5G-IANA AOEP.

The survey is targeted (but not limited) to automotive SMEs and start-ups, that may consider using the 5G-IANA platform for running their experiments during the project lifetime.

You are invited to take part in the 5G-IANA survey and spread the word among your networks!

Deliverables

The first deliverable related to the validation and demonstration of the 5G-IANA platform has been submitted during this period.

5G-enabled Automotive NetApps validation and demonstration:

5G-IANA	D5.1 - Initial validation KPIs and metrics

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

www.5g-iana.eu/resources/.

Upcoming events

01

6th – 9th Dec 2022 📅

ViSNext'22, Rome . Co-chair and Keynote Speech by UULM

02

27th Feb – 2nd Mar 2023 📅

Mobile World Congress, Barcelona.

03

26th – 29th Mar 2023 📅

EEE WCNC, Glasgow.

The 5G Infrastructure Public Private Partnership