



5G EVE

5G Infrastructure News

Issue 1 - December 2018

Editorial

Dear reader,

The 5G EVE project has now been up and running for six months. Time to present some highlights of what the project consortium has done and achieved so far. Read about it in this first edition of our bi-annual newsletter '5G Infrastructure News'.

In the Events section, we report about a productive networking session, which we co-organised at ICT 2018 in Vienna. Parallel to ICT 2018, a high-level 5G Italy conference took place in Rome with significant 5G EVE involvement, as you will learn from the next article.

In the Results section, we present summaries of the three public deliverables, which we have published so far.

Under Publications, we present our recently published project flyer and a video recording of the technical overview on the 5G EVE facility, which our technical manager Manuel Lorenzo from Ericsson Spain presented at our first 5G EVE Webinar.

If you would like to stay up-to-date with our activities and results, we recommend to follow us on Twitter where we regularly post under [@5G_EVE](#)

We hope you find the information in our newsletter interesting and valuable, and we look forward to any questions or comments you may have.

Kind regards,

The 5G EVE Team

EVENTS

Productive networking session on 5G infrastructures at ICT 2018



On 6th December 2018, Horizon 2020 projects 5G EVE, 5G-VINNI, and 5GINFIRE organised an interactive networking session at ICT 2018 in Vienna, which was dedicated to stimulating innovation over next generation 5G network infrastructures. The session aimed for an interdisciplinary discussion on the requirements for a 5G end-to-end facility from the industry customers' perspective. More than 30 participants contributed to ...

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5G EVE at 5G Italy conference in Rome

The 5G Italy conference in Rome on 4-6 December 2018 attracted about 450 participants from regulatory authorities, research organisations, businesses, and

public administrations. They met at the CNR headquarters to discuss the challenges and opportunities of the upcoming 5G network. The importance of the event is indicated by the participation of Alessandro Viola, Director General of the EC's DG CONNECT, ...



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RESULTS

Initial detailed architectural and functional site facilities description - Deliverable D2.1 (30/09/2018)

This deliverable contains the description of the four European site facilities in France, Greece, Italy and Spain, which constitute the 5G end-to-end facility of 5G EVE. Since the deployment of the four facilities is in progress at the time of delivery of this document, the information here provided is to be considered as the state of hardware and software assets in each site facility planned for the end of April 2019, when the initial access to the 5G EVE platforms will be granted to the verticals to be integrated. The site facilities evolution will follow the specifications of 3GPP – Release 16 and the roadmap of equipment manufacturers. The final state of the different sites facilities that will compose the E2E facility will be described in the D2.3 deliverable, due at the end of the project in June 2021. Each site facility is described individually, with an effort to identify the possible commonalities and inter-relations among site architectures, which aims at easing the process of smooth interworking in the 5G EVE platform.

For each site, we provide a description of the high-level reference architecture and a summary of the main vertical use cases which we plan to integrate. The individual description of each site allows to analyse the possible convergence between the different approaches of network deployment and thus provides the common blocks that can build the interworking between sites and the management of the 5G EVE end-to-end facility. In the conclusion, we present a summary table of the technologies used by each site for each part of the network framework.

[Deliverable for download in pdf format](#)

Requirements Definition & Analysis from Participant Vertical-Industries - Deliverable D1.1 (31/10/2018)

This deliverable reports on the set of identified use cases and the initial requirements coming from vertical industries that are considered relevant for the project. It also analyses key project performance indicators and how they relate to the ones identified by 5G-PPP. The scope of this deliverable, which is the first document of WP1, is to describe the following Vertical industries:

Use case 1 - Smart Transport: Intelligent railway for smart mobility

Use case 2 - Smart Tourism: Augmented Fair experience

Use case 3 - Industry 4.0: Autonomous vehicles in manufacturing environments

Use case 4 - Utilities (Smart Energy): Fault management for distributed electricity generation in smart grids

Use case 5 - Smart cities: Safety and Environment - Smart Turin

Use case 6 - Media & Entertainment: UHF Media, On-site Live Event Experience and Immersive and Integrated Media)

The peculiarities and the main characteristics of each use case, from different verticals, are highlighted and analysed.

The main outcome of this deliverable consists in detecting/extracting/collecting a set of requirements from the use-cases defined by the internal vertical-industries participating in the 5G-EVE project. For each use case two types of requirements are used, general requirements and more specific requirements.

[Deliverable for download in pdf format](#)

Sites facilities planning - Deliverable D2.2 (31/10/2018)

The present deliverable describes the planning of each site facility deployment at least until April 2019. It also gives some perspectives of updates that will occur after this date. April 2019 has been put at the first objective since it corresponds to the initial access to the site facility for vertical hosting. Attached to this deliverable, we have inserted an Excel file, with one sheet per site facility, giving the dates of availability for each component/equipment that compose the integrated site facility.

These components are referred via index number in the Excel sheet, showing their date of availability. Then, in the document, a brief description of each component is done as well as its methodology of implementation, testing and validation. More attention is paid about the site facility integration. Indeed, since some site facilities are composed of several integrated platforms regarding the use case they want to host, each integrated platform is detailed about the components they are composed of, the KPI they plan to achieve and the methodology of integration they plan to apply.

The content of this document is complementary to the 5G EVE deliverable D2.1, which describes

more in details the various site facilities. We just refer or take inputs coming from to give information about the site facilities architectures and components that integrate the platforms.

[Deliverable for download in PDF format](#)

PUBLICATIONS

Project Flyer

[5G EVE project flyer for download in pdf format.](#)



Technical overview on the 5G EVE facility - Video

[Technical overview and Q&A on the 5G EVE facility and how it could be used by ICT-19 projects](#), by Manuel Lorenzo, Ericsson Spain, at the 5G EVE webinar on 20 September 2018.



About 5G EVE

5G EVE, the '5G European Validation platform for Extensive trials', is a European infrastructure research project within phase 3 of the 5G Infrastructure Public-Private Partnership (5G PPP). The project ambition is to be instrumental towards the pervasive roll-out of 5G end-to-end networks in Europe. 5G EVE started on 1st July 2018 and runs for 36 months. The 15.7 million euro project is coordinated by Telecom Italia.

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Editor and responsible according to German law: Milon Gupta, Eurescom GmbH, Wieblinger Weg 19/4, 69123 Heidelberg, Germany, e-mail: contact@5g-eve.eu

MailPoet