5G**IN**FIRE

Newsletter

No-2 2018

Latest 5GINFIRE News

Extended 5GINFIRE infrastructure

To extend its portfolio of experimental facilities, the 5GINFIRE issued competitive calls for further infrastructures and testbeds. As result, the 5GINFIRE portfolio has been enlarged to eight experimental infrastructures, addressing various sectors such as, automotive, health, smart cities, public safety, and smart cities as well as 5G based testbeds for networking related experimentation. In addition, capability of the 5GINFIRE experimenters' tools has been significantly improved and automatized. More information is available on the 5GINFIRE website in facilities section at https://5ginfire.eu/facilities/.

5GINFIRE Open Calls

The first open call of the 5GINFIRE project, implemented in two phases, has been completed with result of adding five new experimental facilities in the 5GINFIRE portfolio, extending the 5GINFIRE capability by new functionality, and allowing 10 initial experiments to be implemented and executed on the top of the 5GINFIRE infrastructure.

Currently, the 5GINFIRE is running its 2nd Open Call for Innovative Experiments (submission deadline on 18 December 2018) and its result will be known in March 2019.

The next and last planned **3rd 5GINFIRE Open Call for Innovative Experiments** is open for submissions with the **submission deadline on 27 February 2019**. More information is available on the next page.

Website: **www.5ginfire.eu**

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ABOUT COMPETITIVE OPEN CALLS

Results of the 1st 5GINFIRE Open Call

After its two implementation phases, the 1st 5GINFIRE Open Call was completed in autumn 2018, with in total 95 eligible proposals were received, requesting more than 7.6 million €, competing for a total available funding of 1.55 million €.

A total of 57 proposals for experiments were received, requesting more than 4 million €. Remarkably 29 proposals were received from SMEs, representing more than 50% of the proposers. Two proposals were received from industry, 17 from academia and 9 from research institutes. 10 experiment proposals have been granted.

Furthermore, a total of 38 proposals for new infrastructures and functionalities were received, requesting more than 3.5 million €. Also in this category SMEs were very active with 14 proposals. 13 proposals were received from research institutes, 10 from academia, and one from big industries. In total, five proposals for new infrastructures and three for new functionalities have been granted.

Ongoing 2nd 5GINFIRE Open Call

The 2nd 5GINFIRE Open Call is still ongoing (submission deadline is on 18 December 2018) and the results of the open call will be known in February/March 2019.

3rd 5GINFIRE Open Call – Innovative Experiments

Call identifier: 5ginfire-3

In alignment with the overall project objectives 5GINFIRE is organizing a competitive open call targeting external organizations, including industry, SMEs, research institutions, and academia, interested in performing experiments on the top of the infrastructure provided by 5GinFIRE. This 5GINFIRE open call invites experimenters to use the 5GINFIRE experimental facilities, taking advantage of the provided testbed features such as SDN, NFV and VxFs to test vertical applications.

Available funding:

- Maximum of 75,000€ funding per accepted proposal
- Total of 450,000€ is available for this Open Call
- At least three experiments from SMEs will be accepted in this call (if ranked above threshold)

Important dates:

- Mandatory feasibility check deadline: **13 February 2019** at 17:00 Brussels local time
- Submission deadline: **27 February 2019** at 17:00 Brussels local time

Proposals will only be accepted from a single party eligible for participation in EC H2020-projects.

More information about this and further open calls can be found on the project website www.5ginfire.eu.

Experimenters' Stories

SURROGATES

5GINFIRE experiment performed by University of Murcia, Spain

The SURROGATES – Hybrid Communications to Foster 5G Vehicular Services – is the first experiment which was implemented and completed by using the 5GINFIRE experimental infrastructure and its experimenter tools. In vehicular scenarios, on-board units (OBU) have evolved from specific purpose units designed for telematic services such as fleet management or road tolling, to generic networked nodes capable of interconnecting other in-vehicle devices, acting as mobile routers. Although virtualization of network and computing nodes is a reality in cloud deployments, it is expanding to the edge of the access network in scenarios involving multi-access edge computing. This scenario presents a good frame to offload data analytics tasks from OBUs, which should focus on actions of higher priority such as maintaining vehicle connectivity, managing communication flows or applying security measures to data traffic.

"*Within the SURROGATES experiment we have exploited the virtualization ecosystem provided by 5G-INFIRE; concretely the IT-Av and 5TONIC facilities to provide edge computing services in the vehicular domain. The vehicular functionalities of the project in Aveiro have enabled us to set-up an IPv6 mobile network to assure connectivity with "virtual on-board units", while monitoring and data visualization services were set-up in a core network domain in Madrid. Both the main coordination of 5GINFRE and the technical assistance in both testbeds have provided us a key support to successfully develop our concept idea. The implementation of our proposal within the project has resulted in relevant research achievements and new technical skills that we will transfer to on-going and future research lines.*"

By experimenters from University of Murcia

More information about the experiment setup and achieved results can be found on the 5GINFIRE website in the experiments section at https://5ginfire.eu/experiments/.

5GINFIRE @ EUCNC 2018

European Conference on Networks and Communications 2018

Ljubljana (Slovenia), 18-21 June 2018

Demonstration booth of b<>com "wireless edge factory" integrated in Open Source MANO for automatic deployment on 5GINFIRE.

Michel Corriou, b<>com, France

5GINFIRE @ ICT Event 2018

Imagine Digital - Connect Europe, in Vienna (Austria) on 4-6 December 2018

Artificial Intelligence - New Solutions for Real-time Service Delivery

On 6th December 2018, Horizon 2020 projects 5G EVE, 5G-VINNI, and 5GINFIRE organized 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 this interactive session, which was chaired by Anastasius Gavras from Eurescom.

Stimulating innovation over next generation 5G network infrastructures

The session aims to stimulate an interdisciplinary discussion on the requirements for a 5G end-to-end facility from the industry customers' perspective.

The idea is to explore with prospective industry customers of the 5G infrastructure the relevant key performance indicators for this network facility, including technical and functional requirements from multidisciplinary backgrounds of vertical sector industries. This should lead to clear operational and business key performance indicators (KPIs) that should be met in order that business innovation is stimulated over future 5G infrastructures.

The participants had the opportunity to express their opinions and to engage in the debate.

The results of the session are captured in a report, shared with the 5G PPP and FIRE communities as well as the vertical sector industry stakeholders for consideration. Specifically the 5G infrastructure projects which are building the 5G end-to-end network facility and related FIRE projects, such as 5GINFIRE, are addressed.

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