PRESS RELEASE

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— for immediate release —

SELFNET – FRAMEWORK FOR SELF-ORGANIZED NETWORK MANAGEMENT IN VIRTUALIZED AND SOFTWARE DEFINED NETWORKS

SELFNET is a 36 month Horizon 2020 EU project which was funded as part of the 5G-PPP programme to address the strand Network Management challenge, with a budget of 6,87 million Euros. The project consortium is composed of 12 EU partners including leading industries, highly specialized SMEs, and renowned universities and research centres, from 7 different countries: Germany, Greece, Italy, Israel, Portugal, Spain, and UK.

SELFNET kicked-off on 10th of July 2015, at the Coordinator's premises, in Heidelberg, Germany.

Main Objectives

During the three-years duration of the project SELFNET will investigate innovative schemes to achieve advanced automation of complex network management operations such as self-protection capabilities against distributed cyber-attacks, self-healing capabilities against network failures, and self-optimization to dynamically improve the performance of the network, the cost-efficiency of infrastructure maintenance, and the quality of experience of mobile users across Europe and globally.

The main objectives of SELFNET are to deliver an innovative framework for the automated management and rapid deployment of self-configuring next-generation networks and services for

automated network monitoring and maintenance management tasks, by extending the state-of-the-art network management within the Software-Defined Networking and Network Function Virtualization (SDN/NFV) arena. The result of it will remove the reliance on costly, vendor-specific hardware with an advanced software-based approach which will automatically detect and mitigate a range of common network problems that are currently still being manually addressed by network operators. Consequently SELFNET will reduce operational costs while improving the user experience.

SELFNET Impact

SELFNET framework is expected to generate significant impacts, enlarging the mobile networks market share for European network operators, by providing network infrastructures with new intelligence to automatically perform self-healing, self-protecting and self-optimizing functionalities; for European equipment vendors, by including in future network equipment capabilities for self-organization and self-improvement of the network, as expected for next-generation networks; and strengthen the competitiveness of European service providers with optimized service and application performances to increase the QoE of users, thus attracting more subscribers.

At the operational level SELFNET is expected to reduce the service creation and deployment time, to improve scalability from the distributed intelligence, hierarchical network function/element deployment, scalable service creation, and cloud computing; to improve extensibility through a combination of layering, modular design and open APIs; and to reduce OPEX from reducing the complexity of the network management currently being manually conducted, and CAPEX by utilizing cloud resources.

At the societal level SELFNET expects an enhanced QoE of the end users, bandwidth usage and support for video applications; more secured and resilient network and services; and reduced energy consumption, by reducing the amount of physical devices and increasing the utilization of existing ones.

5G-PPP Programme

SELFNET is one of the first phase projects of the 5G Infrastructure Public Private Partnership (5G-PPP). The 5G-PPP has been initiated by the EU Commission and industry manufacturers, telecommunications operators, service providers, SMEs and researchers to deliver solutions, architectures, technologies and standards for the ubiquitous next generation communication infrastructures of the coming decade, securing Europe’s leadership in the particular areas where Europe is strong or where there is potential for creating new markets such as smart cities, e-health, intelligent transport, education or entertainment & media.

For more information on the 5G-PPP: https://5g-ppp.eu/

SELFNET consortium

SELFNET is project co-funded by the European Commission under EU Horizon 2020 Programme. It is running for 36 months from July 2015 to June 2018. The project consortium consists of 12 European partners from industry and academia:

- Eurescom - Germany (Project Coordinator)
- University of the West of Scotland - UK (Technical Coordinator)
- Universidad de Murcia - Spain
- Portugal Telecom Research & Inovacao - Portugal
- DFKI - Germany
- Universidad Complutense de Madrid - Spain
- Nextworks - Italy
- InnoRoute - Germany
- Alvarion - Israel
- Ubiwhere - Portugal
- Proef - Portugal
- Creative Systems Engineering - Greece

Project coordinator:

Maria Barros Weiss, Eurescom GmbH

Project Technical Managers:

Prof. Jose M. Alcaraz Calero, University of the West of Scotland

Prof. Qi Wang, University of the West of Scotland

SELFNET contact: **contact@selfnet-5g.eu**

SELFNET website: **http:// selfnet-5g.eu**
