

Date: August 31, 2017

Press Release

FOR IMMEDIATE RELEASE

Nomor Research to build 5G system simulator and demonstrator within the 5G-MoNArch project as part of the 5G-PPP initiative

Munich, August 31, 2017 - Nomor Research, a leading company providing 4G and 5G related consultancy services, today announces its involvement in the 5G-MoNArch project (5G Mobile Network Architecture for diverse services, use cases, and applications in 5G and beyond), part of the 5G-PPP initiative. Industry vendors, operators, IT companies, small and medium-sized enterprises, academia and verticals in Europe have joined forces to prototype a novel, adaptive and future-proof mobile network architecture for the 5G era.

The key goal in 5G MoNArch project is to achieve a flexible, adaptable, and programmable fully-fledged architecture for the 5G mobile network in addition to complementing it by the three key enabling innovations: i) inter-slice control and cross domain management ii) experiment-driven optimisation, and iii) cloud-enabled protocol stack. Moreover, resilience and security (WP3) and resource elasticity (WP4) are the two use cases functional innovations considered in this project.

Nomor Research is actively involved in elastic research activity and will focus on the design of functions for cross slice radio resource, orchestration, and computational resource assignment to deal with capacity demand variation avoid computational outage. The goal is to propose algorithms to optimally allocate computational resources to slices with different objectives such as maximizing overall performance of the network, satisfying the specific demands of each slice (tenant), and being fair to different slices. Nomor Research with its simulators and the experience are currently working on the methodology and benchmarking the BBU pools. Main objectives of 5G-MoNArch are summarized below.

1. Detailed specification and extension of 5G architecture.
2. Extension of existing architecture design with key enabling innovations
 - Inter-slice control and cross-domain management
 - Experiment-driven modelling and optimization
 - Native cloud-enabled protocol stack
3. Functional innovations for the key technologies required for the identified use cases
 - Resilience and Security
 - Resource elasticity
4. Deployment and experimental implementation of the architecture in two use cases
 - Sea port use case
 - Touristic city use case
5. Evaluation, validation, and verification of the architecture performance

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Industry players included in the consortium

Vendors and IT: Nokia Networks, Huawei, Samsung, ATOS

Operators: Deutsche Telekom, Orange, Telefonica

Small and Medium-sized Enterprises: Nomor Research, Azcom Technology, Real Wireless, Mobics Telecommunication and Consulting Services

Academia: University Kaiserslautern in Germany, University Carlos III Madrid, CERTH/ITI

Verticals: Hamburg Port Authority, CEA-LETI

About Nomor Research GmbH

Nomor Research, based in Munich, Germany, is a leading company in the research and development of future and emerging communication systems. Besides the consultancy services based on its deep expertise in research and standardization of 3GPP based technologies, Nomor is renowned for its services around system level simulation, demonstrations and prototyping.

For further information, go to <http://www.nomor.de/>