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5G PPP SMEs SUCCESS STORIES

1. Introduction

InnoRoute mission is to provide innovative routing solutions. In a former business project the company developed a packet processing library which was the basis to launch a router project.

Begin 2015 we got the SME1 project TRUSTNODE to perform a feasibility study for an IoT router. Coaching support provided by SME Instrument helped us working out business cases.

2. Goals and Challenges in relation to 5G PPP

Thanks to the TrustNode router platform InnoRoute became partner in the two 5G-PPP projects SELFNET and CHARISMA, both starting Mid 2015.

CHARISMA contributes among others to the low latency target of 5G. It enabled InnoRoute to reduce the latency of the TrustNode down to 2.5 μ s. Also, CHARISMA enabled us to verify the hierarchical routing capability of the TrustNode.

SELFNET requested us to implement user-configurable network sensors and actuators. We implemented a modular set of flow detectors, counters and schedulers, and we developed a user-friendly programming interface.

3. The use of 5G technology

- Ultralow latency makes the TrustNode ideal for IoT research applications. German Industry 4.0 projects have chosen the TrustNode as exploration platform.

4. Benefits and accomplishments

- User-friendly programming of network functions makes the TrustNode platform interesting for universities and research institutions.
- Hierarchical routing will be exploited by a TrustNode derivative optimized for SME. InnoRoute owners raised