Next generation IoT secured by DiversIoT technology

The newly started project **DiversIoT: Diversification for Resilient and Trustworthy IoT-systems** has the bold vision to make the IoT ecosystems resilient and trustworthy by diversifying IoT service implementations, enabling companies, public authorities and people to exploit and use IoT services, with low risk for privacy and security breaches and significantly reduced impact in case of cyberattacks.

Diversification to immunize IoT against cyberattacks

DiversIoT is a result of social, regulatory, and market pressures, and seeks to test, validate and propose new and innovative software development solutions for secure IoT based on the simple concept of **diversification**. In nature, diversity has been a key mechanism for resilience for all forms of life, by enabling them to evolve immunity to external threats. Resilience is the ability to be resistant (i.e., hard to harm) and the ability to recover quickly and with limited damage in case of infringes.

Enabling Industry's IoT services while protecting critical infrastructure from these

Gartner predicts that by 2020 more than 25% of the cyberattacks against enterprises will originate from the IoT. IoT vulnerabilities transform IoT devices into originators of enormous numbers of requests to targeted services. The infamous Mirai botnet was one example of attacks enabled by IoT on Internet (DNS) infrastructure around the world. Securing IoT is simply too costly for the current market.

DiversIoT software techniques will boost security and privacy compliance endeavours for existing IoT companies with little demands on their development costs because of the focus on usability and automation for the proposed techniques.

The founding partners, SINTEF, UiO, and TellU IOT, will be joined in this IoT software revolution by national and international collaborators, both prestigious academic institutions like Ecole Politechnique, KTH, or INRIA, as well as heavy industrial players in IoT like Telenor or NCE Smart Innovation Norway.

Additional information

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