

Connecting Trustable Things

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secure connected trustable things



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- Gartner, Inc. forecasts 20.4 billion connected things by 2020
- According to BullGaurd, 375 million devices were potentially vulnerable in 2017, which will grow to more than 900 million by 2020.
- According to F5, IoT attacks increased 280% in 2017 over period of July 1 through December 31, 2016, which Mirai attack happened.



- SCOTT is an European project with 57 partners from 12 countries
- Create trust in wireless solutions
- Increase social acceptance of wireless products
- Enhance efficiency in secure wireless products
- Achieve full potential of Internet of Thing (IoT)
- Consists of 15 industrial use cases



What are the goals of SCOTT?



- □ Trust framework
- □ Privacy labeling
- □ Security classes
- □ Link between security and safety

Improve interoperability of wireless solutions





Various Domains



- Aeronautics
- Automotive
- Building and home
- Health
- Rail
- Smart infrastructure





EyeNetworks Contribution in the SCOTT

- Develop concept of managed wireless for smart infrastructure use case
- Collaboration in in-vehicle wireless communication use case
- Collaboration in industrial facility management with secured wireless devices use case
- Collaboration in building trust framework for wireless remote management

Managed Wireless for Smart Infrastructure Use Case



- Open standard protocol remote management
- Standardization of remote managament
- Improve interoperability of wireless products
- Enhance security and privacy of Remote configuration
- □ Assess trust issues and vulnerabilites
- □ Privacy labelling
- □ Measurable security



In-Vehicle Wireless Communication



- Connect and pair wireless sensors for in-vehicles measurements
- Trustable pairing of sensors
- Interconnect in-vehicle wireless communication with smart infrastructure



Industrial Facility Management



- Provide mobile authentication and authorization
- Utilize wireless components for critical infrastructure
- Remote monitoring and management of wireless components
- Provide trustable wireless infrastructure





Trust Framework for Wireless Remote Management

Secure Connected Trustable Things

- Identify trust issues and vulnerabilities
- Identify trust requirements
- Identify environmental effect on user trust
- Facilitate trust formation by design



Why Should we Care?



- Everything is going to be connected
- We need secured and private interactions
- We need trustable wireless communication
- Prepare our remote configuration solutions for upcoming services and applications





Questions?

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