Improving IoT Security and Safety

ENGIE Ineo' Smart-Grid

Context and challenge

ENGIE Ineo' Smart Grid: Toulouse, France.
Cyber-apps for optimization, control, consumption forecast and monitoring of the grid

Drawbacks:
– Lack of model and technical specification
– Limited access to cyber network and grid
– Critical power assets in operation
– Integration of MDE security and safety

Innovation

Security-safety analysis methodology.
Reverse engineering, UML modeling, risks assessment, attack detection robustness and security testing

Industrial proof of concept.
Based upon the analysis of ENGIE Ineo' Smart Grid

Methodology support. Provided by Papyrus4Security

Outcomes

– Integration of MDE security into the engineering process of ENGIE Ineo
– Detection identified as a common axis of evaluation of safety and security

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