# Securing Low Power Device Communication in Critical Infrastructure Management

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*Abstract* — An overview of a secure IoT data transmission ecosystem will be completed with a concrete example of a water management use case from the Brain-IoT project. In this use case, to ensure high trust in the device's data, we integrated an end-to-end security layer that is compatible with battery-less devices with high constraints in terms of energy, power computation and bandwidth.

*Brief Biography* — Passionate about cybersecurity, IoT and identity management, Paul-Emmanuel Brun, is expert in IoT system security, and leading the innovation activities within AIRBUS CyberSecurity France. As a former security and identity management engineer, he was involved in several European initiatives and contributes to several projects for the French MoD, from secure architecture definition to integration of cybersecurity solution. After applying several patents linked to the cybersecurity of IT and IoT systems, he is now focus on innovation and IoT system security.