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PKI security services for IoT

The work towards making IoT devices first class internet citizens, particularly in the area of security services, has taken several important steps the last couple of years. When Public Key Infrastructure, PKI, becomes feasible also for IoT, a number of important security services can be realized.

With solutions for certificate enrollment as a fundamental building stone for key management in place, more complex services can be specified also for IoT. We have been specifying and demonstrating solutions for certificate revocation, secure updates and secure transfer of control between IoT operators. These are all mechanisms which need to be in place for long-time support and maintainability of IoT deployments, where standard-based solutions are critical to further interoperability and avoid vendor lock-in.