

Simple and Secure Control of Consumer IoT Device with a Smartphone



How to **securely** manage and setup IoT devices using a smartphone ?

Designed and implemented **easy-to-use** and **secure** procedures for setting up IoT devices into a home network, and **controlling them using a smartphone**

Adapted the OMA Lightweight Machine to Machine (LwM2M) specification for home use

PoC implementation using RPi and Android smartphone. Extensions to LwM2M open source projects:

- QR code reading
- **Smooth user experience**
- Bootstrapping over WiFi

LwM2M is an **"Open"** ecosystem, leveraging the work of **25+ member companies**.

Changes to LwM2M specifications **need to be standardized**.

