OM2M an opensource middleware for IoT compliant to ETSI-M2M
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OM2M?

› **Connecting** M2M/IoT devices
› **Horizontal** service **platform**
› **Restful** architecture with a **generic** set of **capabilities** for M2M services
› Allow developing services **independently** of the underlying network
› Facilitate **deployment** of **vertical** applications.
› **Compliant** to ETSI M2M Standard, and soon, to the OneM2M Standard
› Features:
  - App/Dev discovery, App/Dev registration, AR mgmt., Group mgmt., subscription mgmt., etc.
OM2M is a java platform running on top of an OSGi Equinox runtime which make it highly extensible via plugins.

Each SCL includes required plugins.
Project Stats

› Web site frequentation

Sessions

Views per Topic

Topics on the dev forum
Project Stats
Next releases

- Short term
  - Date: around December 2014
  - Key features:
    - MQTT Client
    - ZigBee interworking proxy
    - 6lowpan interworking proxy

- Mid-Term
  - Date: 1st / 2nd quarter of 2015
  - Key features:
    - A DSCL entity: extend om2m to “powerful” devices: smartphone, capable sensor/actuator
    - JSON/BSON, CORE Link formats
    - Bluetooth interworking proxy
Key challenges

› MQTT communications
  - Seamless integration of client and broker

› ZigBee IP
  - Configuration problems related to some devices

› 6lowpan IP
  - Very short data frames (~50 bytes)
  - New data format (JSON, Core Link)

› A Dashboard!
  - OpenSCADA? Birt? Home made?

› Evolution towards the OneM2M standard
  - Updating the data structures
Collaboration opportunities

› Already using:
  - Californium for CoAP
  - Paho for MQTT Client

› Planning to use
  - Mosquito/Moquette for MQTT Broker
  - Birt for data visualization
  - OpenSCADA for dashboard
  - OMA LWM2M for device management
  - Concierge for mobile deployment
Thank you

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