AN OVERVIEW OF ECLIPSE M2M IoT!

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AT FIRST THEY WERE THREE...
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**Paho** provides client implementations of the MQTT protocol.

**Mihini** is an embedded Lua runtime providing HW abstraction and other services.

**Koneki** provides tools for embedded Lua developers.
AND NOW THEY ARE 13!
Eclipse SCADA is a complete Java/OSGi-based SCADA system (communication, monitoring, GUI, ...)

Kura is a Java/OSGi-based M2M container for gateways. Has support for Modbus, CANbus, MQTT, ...

Mosquitto is a lightweight server implementation of the MQTT and MQTT-SN protocols, written in C.
**Ponte** bridges M2M/IoT (MQTT, CoAP) protocols to the Web.

**SmartHome** provides a complete set of services for home automation gateways.

**OM2M** implements the ETSI M2M standard.
**Californium** is an implementation of the CoAP protocol written in Java. Includes DTLS for security.

**Wakaama** is an implementation of LWM2M written in C.

**Krikkit** is a rules system for programming edge devices just like you’d configure a router.
Concierge is a lightweight implementation of OSGi Core R5.

Let’s talk more today! ;-)

Your project? 😊
BUILDING BLOCKS FOR IOT
BUILDING BLOCKS FOR IOT

... for building what?
Building... SENSOR NETWORKS

Mosquitto broker

MQTT Network
Building... SENSOR NETWORKS (2)
Building... DEVICE MANAGEMENT

CoAP Network

LWM2M server (e.g. Leshan)

- battery level
- avail. memory
- firmware
- reboot

wakaama

wakaama

wakaama

wakaama

CoAP Network
Building... HOME AUTOMATION
SO... WHAT’S NEXT?
SO… WHAT’S NEXT?

big data
SO... WHAT’S NEXT?

big data

security
SO... WHAT’S NEXT?

big data

security

interop
UPCOMING EVENTS
UPCOMING ECLIPSE EVENTS

http://iotlive.org
UPCOMING ECLIPSE EVENTS

Eclipse Day Florence
May 23, 2014

http://eclipsedayflorencce.com
UPCOMING ECLIPSE EVENTS

Toulouse
June 18-19

http://eclipsecon.org/france2014
http://iot.eclipse.org

This portal is where you can learn about the technologies developed at Eclipse to make Internet of Things (IoT) development simpler.

Our technologies aim at establishing an open IoT/M2M platform to be used by anyone.

Services & Frameworks
Deliver extensible runtimes and services enabling IoT/M2M applications.

We provide a set of services and frameworks enabling features such as device management, software update, vertical solutions, ...

More »

Protocols
Provide Open Source implementations of standard IoT/M2M protocols.

Currently, we provide tools and libraries for:
- MQTT messaging protocol
- OMA-DM Device Management protocol

More »

Tools
Package a "one-stop shop" IDE for IoT/M2M developers.

We believe that Lua is a language very well-tailored for the Internet of Things, therefore an IDE for Lua development is available.

More »
Thanks! Questions?

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