DPWS: Web Services for devices. An example of DPWS and WSN integration

José-F Martínez
Vicente Hernández
Ana-B García
Lourdes López
Antonio da Silva

jfmartin, vhernandez, abgarcia, llopez, adasilva {diatel.upm.es}
Agenda

- Introduction
- DPWS and WSN integration
- Architecture Deployment & Details
- Questions
WS&AN & DPWS

WS&AN: Wireless Sensor Network and Actuators is a computer wireless network of spatially distributed and autonomous tiny nodes which cooperatively gather information of the context and react to events.

DPWS: Device Profile for Web Services fosters interoperability between WS on devices with constrained resources.
WS&AN & DPWS – Architecture Deployment

**Internet**

**WSN**

**WS-Event**

**GW**

**Translator**

**MONITORIG TOOL - DEMO**

**Localization**

**Application Layer**

- Configuration
- Query
- Profile Management
- Reasoning

**Control Layer**

- Subscriber
- Framework

**MIDDLEWARE LAYER**

- Network Configuration
- In-net-Reasoning
- VAS

**Low Level Services Layer**

**Networking**

**Hardware**

- SOAP 1.2
- WS-Policy
- WS-MetadataExchange
- WS-Addressing

**WS-Discovery**

- WS-Eventing

**UDP**

- HTTP 1.1
- TCP

**IPv4/IPv6**

**DPWS Devices**

**WS-Addressing**

**WS-MetadataExchange**

**WS-Policy**

**WS-Eventing**

**WS-Discovery**
Any Questions?

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