

# **SMART METERS**

## **Standardisation mandate M/441**

**Lucia Palmegiani**  
**Policy Officer, DG ENTR I.5**

**Workshop on Smart meters**  
**OIML, Brijuni, 2 June 2009**

# Points to cover

- ▶ **The Issue**
- ▶ **The Objective**
- ▶ **The Background**
- ▶ **The Description of the  
standardisation mandate**
- ▶ **What's next**
- ▶ **The Deliverables**

# The issue

**Mandate for standardisation to ESOs in the field of measuring instruments for the development of an open architecture for utility meters involving communication protocols enabling interoperability**

# The Objective

- **The general objective of this mandate is to create European standards that will enable interoperability of utility meters (water, gas, electricity, heat), which can then improve the means by which customers' awareness of actual consumption can be raised in order to allow timely adaptation to their demands ( 'SMART METERING')**

# The Background

- ▶ **Competitiveness Council Conclusions on standardisation and innovation (Council on 25 September 2008)**
- ▶ **Directive 2006/32/EC on energy end-use efficiency and energy services (art.13)**
- ▶ **Directive 2004/22/EC on measuring instruments (MID) concerns full harmonisation of utility meters**
- ▶ **Mandate M/374 of 20 October 2005 as base for to developing standards for utility meters**

# **Description of the mandated work (I)**

**ESOs are requested to develop a European standard comprising:**

- a software and hardware open architecture for utility meters**
- that**
- supports secure bidirectional communication**
- and**
- allows advanced information and management and control systems for consumers and service suppliers.**

# Description of the mandated work (II)

**The architecture must:**

- Be scalable**
- Take into account the state of the art be adaptable for future communication media.**

**The communication standard of the open architecture must allow the secure interfacing for data exchanges with the protected metrological block.**

# Description of the mandated work (III)

**European standards should:**

- **contain harmonised solutions for additional functionalities within an interoperable framework**
- **foreseen standardised solutions to achieve full interoperability**
- **be performance-based and permit innovation in the protocols that enable remote reading of utility meters and advanced information and management services for consumers and suppliers**
- **permit fully integrated instruments, modular and multi-part solutions.**



# Description of the mandated work (IV)

- **ESOs should take into account: international, European and national standards.**
- **International standards would be the preferable reference point for the European standards because they would allow a world-wide level playing field**

# What's next?

- **Mandate: issued on 12/03/2009**
- **Acceptance by the relevant Boards (6-8 weeks)**
- **+3 months for the working programme**

# Deliverables

▶ **+ 9 months**

**Presentation of the European standard for communication**

▶ **+ 30 months**

**The harmonised solutions for additional functions (European standards) shall be completed**

**ESOs shall provide a combined progress report on the mandated work by the end of October 2010**

# Thank you!

For additional information  
European Commission:

- [Lucia.Palmegiani@ec.europa.eu](mailto:Lucia.Palmegiani@ec.europa.eu)
- [Daniel.Hanekuyk@ec.europa.eu](mailto:Daniel.Hanekuyk@ec.europa.eu)