



**EUROPEAN COMMISSION**  
ENERGY AND TRANSPORT DIRECTORATE-GENERAL

New and Renewable Sources of Energy, Energy Efficiency & Innovation  
**Energy efficiency of products & Intelligent Energy - Europe**

Brussels, 8<sup>th</sup> September 2009  
**M/451 EN**

## **Mandate to CEN, CENELEC and ETSI for Standardisation in the field of power consumption measurement of simple set-top boxes in active and standby modes**

### **1. BACKGROUND**

#### **1.1 Legal Basis of the mandate**

This mandate relates to Directive 2005/32/EC of the European Parliament and of the Council, and to Regulation (EC) No 107/2009 of 4 February 2009 implementing this Directive for which a Harmonised Standard should be developed to cover essential requirements.

#### **1.2 The aim of the Mandate**

Regulation (EC) No 107/2009 requires that the measurement procedure for establishing the power consumption of simple set-top boxes in 'active' and 'standby' modes shall be reliable, accurate and reproducible and takes into account the generally recognized state of the art, in order to ensure comparable measurements and fair competition, and to facilitate market surveillance activities.

The aim of this mandate is to create a harmonised standard which covers this requirement.

### **2. DESCRIPTION OF THE MANDATED WORK**

The Commission requests CEN, CENELEC and ETSI to elaborate a reliable, accurate and reproducible standard, which takes into account the generally recognised state of the art, and/or adopt or adapt existing European and International standards for simple set-top boxes meeting these requirements, laying down procedures and methods of measuring the consumption of simple set-top boxes in active and standby modes. The standard has to regard simple set-top boxes as defined in Regulation (EC) No 107/2009.

The standardisation tasks covered by this mandate are as follows.

Procedures and methods for measuring power consumption of simple set-top boxes in 'active' and 'standby' modes:

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- to ensure that the prospective harmonised standard provides accurate, reliable and reproducible procedures and methods, which take into account the generally recognised state of the art, to measure, at least, the power consumption required for the conformity assessment and market surveillance activities pursuant to Regulation (EC) No 107/2009
- to ensure that the prospective harmonised standard specifies, where appropriate, measurement procedures and methods different from those specified in IEC 62087: 2008 (Edition 2). It should be noted that, in accordance with the criteria laid out in Regulation (EC) No 107/2009, the harmonised standard should specify that during measurement the simple set-top boxes should not be powering any external devices, such as Satellite LNB, Terrestrial active antenna, ADSL modem or cable modem.
- to ensure that procedures and methods for measuring power consumption of simple set-top boxes identify and control the sources of measurement variability linked to testing conditions at laboratories

Verification procedure for market surveillance purposes:

- to ensure that the prospective harmonised standard states and controls the sources of variability to be considered for market surveillance purposes
- to provide values for measurement uncertainties for the purposes of the verification procedure for the power consumption of simple set-top boxes and their additional functions/components in active and standby mode as listed and defined in EC Regulation No 107/2009 taking into account the different sources of variability to be considered when a specific product is taken from the market and measured for market surveillance purposes
- To ensure the verification procedure is as uncomplicated and easily reproducible as possible.
- to verify if, in order to reduce the impact of variability to the system, the standard(s) should include specific criteria to be met by laboratories involved in the verification of the declared data (e.g. quality management system, qualification system, personnel training...)

Template for test report:

- to define a template for a test report indicating the information to be declared by the manufacturers to fulfill at least the ecodesign requirements set out by Regulation (EC) No 107/2009 .

### **3. EXECUTION OF THE MANDATE**

CEN, CENELEC and ETSI are requested to communicate to the Commission, within 2 months of the acceptance of this mandate, a work plan for the execution of the above mentioned standardisation tasks, indicating the standard(s) requiring revision or amendment, and the new standard(s) that would need to be developed, if any.

CEN, CENELEC and ETSI are requested to communicate to the Commission after 7 months from the acceptance of this mandate an interim report on the progress of the tasks set out in this mandate, indicating any eventual difficulties encountered and communicating details of any Standard(s) that has been taken into consideration and modified to answer to the needs of the Mandate.

CEN, CENELEC and ETSI are requested to provide, in the three working languages of the ESOs, a copy of the standard(s) developed under this mandate within 12 months of the acceptance of the mandate.

CEN, CENELEC and ETSI are requested to forward the titles of the standard(s) developed or adapted under this mandate in all the official languages of the European Union.

CEN, CENELEC and ETSI are requested to draw up the work plan and execute the above mentioned tasks in close cooperation in order to ensure consistency and avoid overlapping standards.

Wherever possible the tasks should be executed within the framework of the Vienna and Dresden Agreements with a view to duly take into consideration the activities already done or in process at international level.

CEN, CENELEC and ETSI are requested to indicate the relationship between the clauses of the standard and the essential requirements covered.

Acceptance by CEN, CENELEC and ETSI, as applicable, of this mandate starts the standstill period referred to in Article 7 of the Directive 98/34/EC of 22 June 1998 (Of N° L 204/37 of 21 July 1998).

#### **4. BODIES TO BE ASSOCIATED**

As appropriate, CEN, CENELEC and ETSI will invite the representative organizations of consumers' interests (ANEC), environmental protection (ECOS), workers (ETUI-REHS) and small and medium-size enterprises (NORMAPME) as well as representatives of market surveillance bodies of Member States to take part in the standardisation work.