



EUROPEAN COMMISSION

Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs

Single Market Policy, Regulation and Implementation
Standards for Growth

Brussels, 2.7.2015

A Notification under Article 12 of Regulation (EU) No 1025/2012¹

Subject matter related to

<input type="checkbox"/>	Annual Union Work Programme for European standardisation (Art. 12, point a)
<input checked="" type="checkbox"/>	Possible future standardisation requests to the European standardisation organisations (Art. 12, point b)
<input type="checkbox"/>	Formal objections to harmonised standards (Art. 12, point c)
<input type="checkbox"/>	Identifications of ICT technical specifications (Art. 12, point d)
<input type="checkbox"/>	Delegated acts to modify Annexes I or III of Regulation (EU) No 1025/2012 (Art. 12, point e)

Title of the initiative

Draft standardisation request as regards harmonised standards for computers and computer servers

Additional information

Legislative reference(s)	Commission Regulation (EU) No 617/2013 of 26 June 2013, implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers
EN reference(s)	
Status	Draft
Other information	

Commission contact point for this notification

ENER-ECODESIGN@ec.europa.eu

¹ OJ L 316, 14.11.2012, p. 12



Brussels, **XXX**
[...] (2015) **XXX** draft

COMMISSION IMPLEMENTING DECISION

of **XXX**

on a standardisation request to the European standardisation organisations as regards computers and computer servers in support of implementation of Commission Regulation (EU) No 617/2013 of 26 June 2013, implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers

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THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) No 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European standardisation amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/34/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/105/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council¹, and in particular Article 10(1) thereof,

Whereas:

- (1) The implementation of Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of ecodesign requirements for energy-related products that can be supported by European standardisation. According to articles 9 and 10 of Directive 2009/125/EC harmonised standards are to be used for the implementation of the Directive.
- (2) The intention to request harmonised standards in support of the Commission Regulation (EU) No 617/2013 of 26 June 2013, implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers is stated in point 2.1.4.3 “Ecodesign/Energy-related products” of the annual Union work programme for European standardisation².
- (3) The Commission has established guidelines for the execution of standardisation requests and the European standardisation organisations have agreed to apply those guidelines when executing standardisation requests.
- (4) The European standardisation organisations, the European stakeholders organisations receiving Union financing and the consultation Forum established under article 18 of Directive 2009/125/EC composed by a balanced participation of Member States’ representatives and all interested parties concerned have been consulted.
- (5) The measures provided for in this Decision are in accordance with the opinion of the Committee established by Article 22 of Regulation (EU) No 1025/2012.

¹ OJ L 316, 14.11.2012, p. 12

² COM(2013)561 final of 31.7.2013

HAS ADOPTED THIS DECISION:

Article 1

Requested standardisation activities

The European Committee for Standardisation (CEN), the European Committee for Electrotechnical Standardisation (Cenelec) and the European Telecommunications Standards Institute (ETSI) are requested to draft harmonised standards for products identified in Annex II and meeting the requirements set out in Annex I to this Decision.

Article 2

Establishment of the work programme

The European standardisation organisations referred to in Article 1 shall prepare the joint work programme indicating all requested deliverables, responsible technical bodies and a timetable for the execution of the work respecting the deadlines set out in Annex II. These organisations shall submit the work programme to the Commission by no later than three months after the notification of this Decision by the Commission and shall provide access to an overall project plan.

The European standardisation organisations referred to in Article 1 may decide how many harmonised standards are needed in order to execute the request referred to in Article 1.

Article 3

Agreement on the work programme

The European standardisation organisations referred to in Article 1 shall follow in its work programme the possible priorities expressed by the Commission for the execution of the request referred to in Article 1.

The European standardisation organisations referred to in Article 1 shall inform the Commission on any amendments to the work programme.

New subjects for harmonised standards may be added to the work programme provided that Annex I includes requirements for such subjects, after consulting the Commission and where the Commission agrees on that addition, after informing the Committee established by Article 22 of Regulation (EU) No 1025/2012.

Article 4

Reporting

The European standardisation organisations referred to in Article 1 shall report annually to the Commission on the execution of the request referred to in Article 1. These organisations shall submit to the Commission the first joint annual report by 14 months after notification of this Decision by the Commission.

Article 5

Harmonised standards

The European standardisation organisations referred to in Article 1 shall include in each harmonised standard a clear and precise indication with regard to the relationship between its content and the corresponding requirements of the Regulation 617/2013 which it aims to cover. Each harmonised standard developed on the basis of the request referred to in Article 1 shall have a reference to this Commission Implementing Decision.

The European standardisation organisations referred to in Article 1 shall include in each revised or amended harmonised standard information concerning significant changes that were introduced by it.

The European standardisation organisations referred to in Article 1 shall provide to the Commission the titles of the requested harmonised standards in all the official languages of the European Union.

Article 6
Expiration

If this standardisation request is not accepted by any of the European standardisation organisations referred to in Article 1, it shall be considered expired.

Article 7
Addresses

This Decision is addressed to the European Committee for Standardisation (CEN), the European Committee for Electrotechnical Standardisation (Cenelec) and European Telecommunications Standards Institute (ETSI).

Done at Brussels,

For the Commission
Miguel Arias Cañete
Member of the Commission



Brussels, **XXX**
[...] (2015) **XXX** draft

ANNEXES 1 to 2

ANNEXES

to the

Commission Implementing Decision

on a standardisation request to the European standardisation organisations as regards computers and computer servers in support of implementation of Commission Regulation (EU) No 617/2013 of 26 June 2013, implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers

ANNEX I
Requirements for the harmonised standards

1. GENERAL REQUIREMENTS

This Annex I details the aspects for which harmonised test procedures and other measurement methods are required in order to support the Commission Regulation (EU) No 617/2013 (the Regulation).

The set of standards and other deliverables requested in this mandate are specified in Annex II. This includes description of expected deliverables and requirements for scope and content.

The requested harmonised standards shall be suitable to support the application of the requirements given in Article 3 of the Regulation.

The requested harmonised standards shall be based on reliable, accurate and reproducible procedures and methods, which take into account the generally recognised state of the art. As a priority the requested harmonised standards shall be based and built on the existing standards listed in the Commission Communication¹ on transitional methods of measurement for the implementation of the Regulation.

The harmonised standards shall include the definitions of the product types and their main characteristics and of the parameters to be measured and/or calculated as listed in the Regulation.

2. REQUIREMENTS ON THE COVERAGE OF THE REGULATED PARAMETERS OF COMPUTERS AND COMPUTER SERVERS.

The requested harmonised standards should provide reliable, accurate and reproducible procedure and methods for the following parameters for which requirements are laid down in the Regulation:

All computers:

- i. Power demand measurement for Maximum power (W)
- ii. Power demand measurement for Idle state (W)
- iii. Power demand measurement for Sleep mode (with and without Wake-On-Lan (WOL) enabled (W))
- iv. Power demand measurement for Off mode (with and without Wake-On-Lan (WOL) enabled (W))
- v. Power demand measurement for Lowest Power State (W)
- vi. Calculation of "frame buffer bandwidth" (FB _BW) for discrete graphics card (dGfx) categories G1 to G7
- vii. Method to determine whether a reduction in the speed of any active Ethernet network links when transitioning to sleep or off-with-WOL mode occurs.
- viii. Method to determine power management capability to sleep mode
- ix. Method to determine computer power down to sleep mode times

¹ OJ C 110, of 11.04.2014, pp. 108 to 113

- x. Method to determine computer wake times from sleep mode
- xi. Method to determine timing of display power management
- xii. Method to determine whether WOL functionality can be enabled and disabled in sleep mode
- xiii. Method to determine whether wireless network connection(s) can be activated and deactivated
- xiv. Method to determine whether users are given a clear indication with a symbol, light or equivalent, when wireless network connection(s) have been activated or deactivated.
- xv. Method to determine noise levels (the declared A-weighted sound power level) of the computer in suitable power modes (e.g. operation/active, idle etc)
- xvi. Method to determine the total content of mercury (to be recorded at X,X mg) in integrated displays

Mobile computers only:

- Method to determine the minimum number of loading cycles that any main internal batteries must withstand
- Method to identify compliance with the requirement to label external packaging where internal batteries cannot be easily replaced by non-professional users.

Internal power supply units:

- Efficiency measurements at:
 - 100% of rated output power
 - 50% of rated output power
 - 20% of rated output power
 - 10% of rated output power
- Power factor measurements at:
 - 100% of rated output power
 - 50% of rated output power
 - 20% of rated output power
 - 10% of rated output power

Different or identical procedures may be established for the different types of internal power supply units used in computers (such as, but not limited to the following):

- (a) Internal power supply units
- (b) Multi-output (AC-DC) internal power supply units
- (c) Single output (AC-DC) internal power supply units

3. VERIFICATION OF THE DECLARED PARAMETERS FOR MARKET SURVEILLANCE PURPOSES.

Each harmonised standard shall include a verification procedure which can be used to verify the declared parameters listed above for each product type (also listed above), in particular for market surveillance purposes.

Such a procedure shall:

- identify the sources of variability to be considered for market surveillance purposes;
- provide values for measurement uncertainties for the purposes of the verification procedure for the measured parameters 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;
- indicate if, in order to reduce the impact of variability to the system, specific criteria should be met by laboratories involved in the verification of the declared data (e.g. quality management system, qualification system, personnel training);

ANNEX II
Harmonised standards and deadlines for publication

Table 1 – Requested harmonise standards for computers and computer servers

Reference information	Deadline for publication ²
<p>1. Measurement of idle state (desktop computers, integrated desktop computers, notebook computers, workstations, mobile workstations, desktop thin clients, small-scale servers and computer servers)</p> <p>Adaptation of standard EN 62623:2013 - Desktop and notebook computers – Measurement of energy consumption - and any other relevant standard</p>	June 2016
<p>2. Measurement of sleep mode (desktop computers, integrated desktop computers, notebook computers, workstations, mobile workstations, desktop thin clients, small-scale servers and computer servers)</p> <p>Adaptation of standard EN 62623:2013 - Desktop and notebook computers – Measurement of energy consumption - and any other relevant standard</p>	June 2016
<p>3. Measurement of lowest power state (desktop computers, integrated desktop computers, notebook computers)</p> <p>Adaptation of standard EN 62623:2013 - Desktop and notebook computers – Measurement of energy consumption - and any other relevant standard</p>	June 2016
<p>4. Measurement of lowest power state (desktop computers, integrated desktop computers, notebook computers)</p> <p>Adaptation of standard: EN 50564:2011 Electrical and electronic household and office equipment - and any other relevant standard</p>	June 2016
<p>5. Measurement of off mode (desktop computer, integrated desktop computer, notebook computers, workstations, mobile workstations, desktop thin clients, small-scale servers and computer servers)</p> <p>Adaptation of standard EN 62623:2013 - Desktop and notebook computers – Measurement of energy consumption - and any other relevant standard</p>	June 2016
<p>6. Measurement of maximum power (workstations, mobile workstations, desktop thin clients, small-scale servers and computer servers)</p>	June 2016

² 'Publication' makes reference to the moment when the relevant European standardisation organisation makes a standard available for its members or to the public.

Adaptation of standard EN 62623:2013 - Desktop and notebook computers – Measurement of energy consumption - and any other relevant standard	
<p>7. dGfx category for desktop computers, integrated desktop computers and notebook computers</p> <p>Adaptation of "Categories to be used with ECMA-383 Measuring the Energy Consumption of Personal Computing Products, 3rd edition (December 2010)" and any other relevant standard</p>	June 2016
<p>8. Measuring internal power supply efficiency (desktop computer, integrated desktop computer, thin client, workstation, small-scale server, computer servers)</p> <p>Adaptation of "Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April, 2012)" and any other relevant standard</p>	June 2016
<p>9. Measuring internal power supply efficiency (desktop computer, integrated desktop computer, thin client, workstation, small-scale server, computer servers)</p> <p>Adaptation of EN 50564:2011 Electrical and electronic household and office equipment - Measurement of low power consumption - and any other relevant standard</p>	June 2016
<p>10. Identifying power management function desktop computer, integrated desktop computer, notebook computer</p> <p>Adaptation of EN 62623:2013 - Desktop and notebook computers – Measurement of energy consumption - standard and any other relevant standard</p>	June 2016
<p>11. Measuring minimum number of loading cycles that batteries can withstand (notebook computers)</p> <p>Adaptation of standard EN 61960:2011 Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications - and any other relevant standard</p>	June 2016
<p>12. Measuring total content of mercury (computers with an integrated display)</p> <p>Adaptation of one of the below standards:</p> <p>IEC 62321-1 ed1.0 - Determination of certain substances in electrotechnical products - Part 1: Introduction and overview</p> <p>IEC 62321-2 ed1.0 - Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjunction and mechanical sample preparation and any other relevant standard</p>	June 2016

<p>13. Adaptation of standard IEC 62321-3-1 ed1.0 - Determination of certain substances in electrotechnical products - Part 3-1: Screening - Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry - and any other relevant standard</p>	<p>June 2016</p>
<p>14. Adaptation of standard IEC 62321-4 ed1.0 - Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS - and any other relevant standard</p>	<p>June 2016</p>
<p>15. Measuring noise levels (the declared A-weighted sound power level) (desktop computer, integrated desktop computer, notebook computer, workstation, mobile workstation, desktop thin client, small-scale server, computer server) Adaptation of one or more of the below standards and any other relevant standard: ECMA-109 2nd edition (December 1987) Declared Noise Emission Values of Computer and Business Equipment</p>	<p>June 2016</p>
<p>16. ECMA-74 11th edition (December 2010) Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment</p>	<p>June 2016</p>