



ECMA/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

Annex B2 - Product environmental attributes Workstations and Servers

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

| Brand * | Lenovo | Log | 0 | | | |
|------------------------|--|-----|--------|--|--|--|
| Company name * | Lenovo | | _ | | | |
| Contact information * | Lenovo Global Environmental Affairs | | Lenovo | | | |
| e-mail address | Ivin L Carter | | | | | |
| | carter@lenovo.com | | | | | |
| Internet site * | http://www.lenovo.com/social_responsibility/us/en/environment.html | | | | | |
| Additional information | The latest version of this document can be found at: | | | | | |
| | http://www.lenovo.com/ecodeclaration | | | | | |

| The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration. | | | | | |
|--|--|--|--|--|--|
| Type of product * | Server | | | | |
| Commercial name * | Lenovo ThinkSystem D2 Enclosure | | | | |
| Model number * | 7X20 | | | | |
| Issue date * | Aug 8, 2017 | | | | |
| Intended market * | ☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other | | | | |
| Additional information | | | | | |

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products

| Model number " | | 7X20 | Logo | Lon | | |
|---|--|---|------------------|-------------|-----|-------------|
| Issue date * | | Aug 8, 2017 | | Len | | J ™ |
| Product | Product environmental attributes - Legal requirements | | | Require | men | t met |
| Item | | | | Yes | No | n.a. |
| P1 | Hazardo | ous substances and preparations | | | | |
| P1.1* | Products | s do comply with current European RoHS Directive. (See legal reference and NOTE | B1) | \boxtimes | | |
| P1.2* Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value. | | | | \boxtimes | | |
| P1.3* | | s do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), | | \boxtimes | | |
| | | omofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrach | loride, 1.1.1- | | ш | |
| | | ethane, methyl bromide (see legal reference). Comment: Legal reference has no m | | | | |
| | | ration values. | | | | |
| P1.4* | Products | s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych | lorinated | X | | |
| | | /I (PCT) in preparations (see legal reference). | | | | |
| P1.5* | Products | s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carl | on atoms in th | e 🔀 | | |
| | | intaining at least 48% per mass of chlorine in the SCCP (see legal reference). | | | | |
| P1.6* | Parts wit | th direct and prolonged skin contact do not release nickel in concentrations above 0 |),5 μg/cm²/weel | k 🗌 | | \boxtimes |
| | | al reference). | | | | |
| | | nt: Max limit in legal reference when tested according to EN1811:2011-5. | | \square | | |
| P1.7* | REACH Article 33 information about substances in articles is available at (add URL or mail contact): | | | | | |
| | http://www.lenovo.com/social_responsibility/us/en/environment.html | | | | | |
| P2 | Batterie | s | | | | |
| P2.1* | | oduct contains a battery or an accumulator, the battery/accumulator is labeled with landormation on proper disposal is provided in user manual. (See legal reference) | he disposal | | | |
| P2.2* | Batteries | s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadm | nium. (See lega | ıl | | \boxtimes |
| | referenc | e) | | | | |
| P2.3* | Batteries | s and accumulators are readily removable. (See legal reference) | | | | \boxtimes |
| P3 | Conform | nity verification & Eco design (ErP) | | | | |
| P3.1* | The prod | duct is CE-marked to show conformance with applicable legal requirements (see leg | gal reference). | \boxtimes | | |
| | The Dec | claration of Conformity can be requested at (add link or e-mail address): | | | | |
| P3.2* | The prod | duct complies with the Eco design requirements for energy-related products, | | | П | \boxtimes |
| | (see legal reference). | | | | | |
| | Require | d information is; given in item P15 or added to this document, | | | | \boxtimes |
| | • | available at (add URL): | | _ | | |
| P5 | Product | t packaging | | | | |
| P5.1* | | ng and packaging components do not contain more than 0,01% lead, mercury | y, cadmium ar | nd 🔀 | | |
| | | ent chromium by weight of these together. | | <u></u> | | |
| P5.2* | The pac | kaging materials are marked with abbreviations and numbers indicating the nature | of the material(| s) | | |
| | used (see legal reference). | | | | | |
| P5.3* | The product packaging material is free from ozone depleting substances as specified in the Montreal | | al 🔀 | | | |
| | | (see legal reference). | | | | |
| | Comme | nt: Legal reference has no maximum concentration values | | | | |

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Treatment information

Information for recyclers/treatment facilities is available (see legal reference).

P6

| Model number * | 7X20 | Logo | П | ODOVO. | |
|----------------|-------------|------|---|--------|--|
| Issue date * | Aug 8, 2017 | | - | | |

| Product | environmental attributes - Market requirements (See General NOTE GN below) | | | | | | |
|---------|--|-------------|-------------|-------------|--|--|--|
| | - Environmental conscious design Requirement met | | | | | | |
| Item | *=mandatory to fill in. Additional information regarding each item may be found under P14. | Yes | No | n.a. | | | |
| P7 | Design, Disassembly, recycling | | | | | | |
| P7.1* | Parts that have to be treated separately are easily separable | \boxtimes | | | | | |
| P7.2* | Plastic materials in covers/housing have no surface coating. | | \boxtimes | | | | |
| P7.3* | Plastic parts > 100 g consist of one material or of easily separable materials. | | | \boxtimes | | | |
| P7.4* | Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4. | | | \boxtimes | | | |
| P7.5 | Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools. | | | | | | |
| P7.6* | Labels are easily separable. (This requirement does not apply to safety/regulatory labels). | \boxtimes | | | | | |
| | Product lifetime | | | | | | |
| P7.7* | Upgrading can be done e.g. with processor, memory, cards or drives | | | \boxtimes | | | |
| P7.8* | Upgrading can be done using commonly available tools | | | \boxtimes | | | |
| P7.9 | Spare parts are available after end of production for: 5 years | | | | | | |
| P7.10 | Service is available after end of production for: 5 years | | | | | | |
| | Material and substance requirements | | | | | | |
| P7.11* | Product cover/housing material type (e.g. plastics, metal, aluminum): | | | | | | |
| | Material type: Steel Material type: PC+ABS Material type: | | | | | | |
| P7.12 | Insulation materials of external electrical cables are PVC free. | | \boxtimes | | | | |
| P7.13 | Insulation materials of internal electrical cables are PVC free. | | \boxtimes | | | | |
| P7.14 | External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content. | | | | | | |
| P7.15 | Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2) | | | | | | |
| P7.16 | Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: | | | | | | |
| P7.17 | Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive), TBBPA (reactive) (See NOTE B3), Other: chemical name, CAS #: | | | | | | |
| | Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: | | | | | | |
| P7.18 | Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: | | | \boxtimes | | | |
| | 1. Chemical name: , CAS #: (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: " | | | | | | |
| | Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: | | | | | | |
| P7.19 | In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; and Hazard statements: | | | | | | |
| | The source(s) for these classifications is/are found at (add URL(s)): , (See note B5) | | | | | | |
| P7.20* | Postconsumer recycled plastic material content is used in the product (See Note B6): | | \boxtimes | | | | |
| | If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is %. or b) The weight of recycled material is g. | | | | | | |

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

| Model nur | nber * | 7X20 | | | Logo | | | | | |
|--|---|----------------|--|--|--------------------------------|--------------------------------------|--------------------------|-------------|--|--|
| Issue date | ate * Aug 8, 2017 | | | | | Lenovo | ellovo. | | | |
| Product | Product environmental attributes - Market requirements (continued) Requirement m | | | | | | | | | |
| Item | tem Yes No | | | | | | | n.a. | | |
| | Material and substance requirements (continued) | | | | | | | | | |
| P7.21* | Biobased plastic material content is used in the product (See NOTE B7): | | | | | | | | | |
| | If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or b) The weight of the biobased plastic material is g. | | | | | | | | | |
| P7.22* | | | ree from mercury, i.e. I specify: Number of lam | less than 0,1 mg/lamp. nps: and maximu | m mercury content pe | er lamp: mg | | | | |
| P8 | Batteries | • | | | , | | | | | |
| P8.1* | Battery c | hemical co | omposition: Lithium M | langanese Dioxide | | | | | | |
| P9 | Energy of | consumpt | tion (See NOTE B8) | | | | | | | |
| P9.1 | | roduct the | | s or energy consumptio | | 1 | | | | |
| Energy mo | de * | | Power level at 100 V AC | Power level at 115 V AC | Power level at 230 V AC | Reference/Stand modes and test | dard for energy method * | | | |
| Peak (On- | max) | | W | W | W | Full load | | | | |
| | | | | | | | | | | |
| EPS No-loa (External power s wall outlet but dis | supply / charger | plugged in the | W | W | W | | | | | |
| PTEC * | | | W | W | W | | | \boxtimes | | |
| ETEC * | Annual Energy Consumption + P _{steep} x 0.35 + P _{long_tdle} x 0.10-P _{short_tdle} x 0.30) | | | | P _{long_Idle} x 0.10+ | | | | | |
| Evternal Pr | nwer Sunn | ly Efficien | | OL Enabled; P _{sleep} : Sleep Efficiency Marking Pro | | ed; P _{idle} : Idle State - | WOL Enabled | | | |
| Display res | | • | egapixels | Ellicioney Warking 1 10 | | | | \square | | |
| | | | ve mode: 25 minutes | | | | | | | |
| P9.2* | | | | on is provided with the r | product | | | \square | | |
| P9.3 | | | | | | | | | | |
| P10 | | | | | | | | | | |
| - | Noise emission – Declared according to ISO 9296 (See NOTE B9) | | | | | | | | | |
| P10.1 | Mode | | | | | | | (B) | | |
| | Idle * System idle * 6.32 | | | | | | | | | |
| | Operation * System operating * 5.91 | | | | | | | | | |
| | Other mo | ode D | eclared A-weighted sound | d pressure level (dB) $L_{p m Am}$ | (operator position | desktop – idle) | | | | |
| | Other mo | ode D | eclared A-weighted sound | d pressure level (dB) $L_{p{\rm Am}}$ | (operator position | desktop – operating |) | | | |
| | Measured according to: SO 7779 CMA-74 Other (only if not covered by ECMA-74) | | | | | | | | | |

NOTE B8 A Guidance document on Energy Efficiency is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

| Model nu | umber * | 7X20 | | | | Logo | Long | MO | |
|----------|---|---|--|---|---|---------------------------------------|----------------------------|-------------------|-----|
| Issue da | te * | Aug 8, 2017 | | | | | Lenovo | | |
| Product | Product environmental attributes - Market requirements (continued) | | | | | | | ment | met |
| Item | | | | | | | Yes | No | n.a |
| | | nagnetic emissi | | | | | | | |
| P10.4 | Compute program | | he requirement for low frequ | ency electromagnetion | c fields of the foll | lowing voluntary | ′ | | |
| P12 | | mics for comput | | | | | | | |
| P12.1* | The disp | lay meets the erg | onomic requirements of ISO | 9241-307 for visual | display technolo | gies. | \boxtimes | | |
| P12.2* | The phys | sical input device | meets the requirements of Is | SO 9995 and ISO 92 | 41-410. | | \boxtimes | | |
| P13 | | ng and docume | | | | | | | |
| P13.1* | Product | packaging materi | al type(s): Paper – Corruga al type(s): Plastic – PE (pol al type(s): Plastic – LDPE (l | yethylene) wei | ght (kg): 2.091 | weight (kg): 1.4 | 40 | | |
| P13.2* | | | ackaging is free from PVC. | | , | | \boxtimes | | |
| P13.3* | | duct primary corr er recovered fiber | ugated fiberboard packaging content: | g, specify the contai | ined percentage | of minimum p | ost- | | X |
| P13.4* | | media for user an ronic, <mark>X</mark> Paper, | d product documentation (tic | k box): | | | | | |
| P13.5 | (Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify: | | | | | | | | |
| | Element | hlorine-free al chlorine-free ed chlorine-free | | | | | | | |
| P14 | Volunta | ry programs | | | | | | | |
| P14.1 | The prod | duct meets the re- | quirements of the following v | oluntary program(s): | | | | | |
| | ENERG' Eco-labe Eco-labe | | Criteria version: Criteria version: Criteria version: | Date: Date: Date: | Product | category: category: category: | | | |
| P15 | | nal information (| | | | | | | |
| P9 | Energy | consumption of | specific configuration may | vary; description of | of the tested pro | oduct configur | ation: | | |
| | informati knowled | ion contained in the ge available at the here is approxim | o representations, guarantee nis document. All information e time of completion, and su nate and provided for informa | provided by supplied pplier shall have no c | r in this documer obligation to upda | nt is provided ba ate such informa | ased on suppation. The inf | olier's format | ion |
| P9 | | | Notebooks & Tablet Computindex.cfm?fuseaction=find_ | | | code=CO | | | |
| | | | | | | | | | |

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B2

| Reference | Declaration item |
|---|------------------------|
| Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications. | P1.1 |
| Regulation (EC) 1907/2006(REACH, Annex XVII | P1.2, P1.4, P1.6, P1.7 |
| Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances) | P1.3, P5.3 |
| Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002 | P1.5 |
| Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator. | P2.1, P2.2, P2,3, P8.1 |
| Directive 2006/95/EC (Low Voltage Directive) | P3.1 |
| Directive 2004/108/EC (EMC Directive) | P3.1 |
| Directive 1999/5/EC (R&TTE Directive) | P3.1 |
| Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions | P3.1, P3.2 |
| Regulation (EC) No 1272/2008 (CLP Regulation) | P7.19 |
| Directive 2004/12/EC (Packaging Directive) | P5.1 |
| Decision 97/129/EC (Secondary packaging legislation) | P5.2 |
| Directive 2012/19/EU (WEEE directive) | P6.1 |