INDUSTRY VOLUNTARY AGREEMENT TO IMPROVE THE ENVIRONMENTAL PERFORMANCE

OF

IMAGING EQUIPMENT PLACED ON THE EUROPEAN MARKET

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1 Introduction

The imaging industry is an innovative industry with a long track record on environmental improvements. The imaging industry, represented by EuroVAprint[1], wishes to reiterate its commitment to continuous improvement via this voluntary agreement ("Voluntary Agreement") which it believes will help to contribute to the achievement of the EU Action Plan on Energy Efficiency. It is expected that the proposed Commitments as defined herein will enable direct electricity savings of 25 TWh per year in the EU[2] excluding the additional savings that will be made through increased resource efficiency. This Voluntary Agreement should enable customers to make more sustainable purchasing decisions by providing them more accurate information on the environmental performance of our products.

With three years (2011-2014) of hindsight with the previous iteration of the Voluntary Agreement, the imaging industry has completed this revision of its commitments for the years 2015 and beyond. Since autumn 2012, EuroVAprint started consultations at internal and external levels (stakeholders) and has set for itself ambitious targets to be adopted under a tight timeframe.

The market coverage of the companies involved in the revision of the VA remains in excess of **95%** of hardware units sold in the EU that are within scope of this Voluntary Agreement. The goal is to continue to expand the coverage of the Voluntary Agreement and to include as many companies as possible.

The scope of the Voluntary Agreement is based on the ErP Preparatory Study on "Imaging Equipment" (Lot 4) and linked with ENERGY STAR®. It aims to target the highest sales volume products and technologies on the household and office market. It became clear from that ErP Preparatory Study, that this product category contains a wide variety of product types, designed and marketed for a wide variety of markets and applications. Products range from a very affordable personal printer that is used occasionally by a private household user, through multifunctional devices used in offices to accommodate the daily needs for copying, printing, scanning and faxing of documents for groups of office workers, up to highly productive printing systems that are designed to run continuously in print rooms.

When setting out to develop the underlying Voluntary Agreement, the imaging industry was faced with the challenge to formulate requirements that are not only relevant and significant for achieving environmental efficiency, but also applicable to the wide range of different imaging products present in the market. Despite the fact that the imaging industry focused on the products that are sold in the highest numbers, by limiting the product scope to household and office equipment, the problem of diversity still remained, which is mainly driven by the wide variety of customer requirements in the imaging market.

[1] EuroVAprint is a not-for-profit association bringing together all manufacturers of imaging equipment that operate in Europe and have signed the present Voluntary Agreement. The association provides the legal and administrative means to supervise the implementation and monitoring of the present set of binding commitments made by its members. See www.eurovaprint.eu for details

[2] Source: Commission Staff Working Document - Executive Summary of the Impact Assessment Accompanying the document Report from the Commission to the European Parliament and the Council on the Voluntary Ecodesign Scheme for Imaging Equipment - COM(2013) 23 final

For the reasons outlined above, Signatories will commit to the requirements in this Voluntary Agreement for the vast majority of the products. Nevertheless the exclusion of some products could not be avoided.

In line with the European Commission's Communication on Environmental Agreements at Community level within the Framework of the Action Plan on the Simplification and Improvement of the Regulatory Environment, the Voluntary Agreement v.4.0 has been acknowledged by the European Commission through a Report to the European Parliament and the Council published on 29 January 2013[3].

[3] **COM (2013) 23 final**

The Signatories of this Voluntary Agreement are:

1. Brother International Europe
2. Canon Europe Ltd.
3. Dell
4. Epson Europe BV
5. Hewlett Packard Company
6. Konica Minolta Business Solutions Europe GmbH
7. Kyocera Document Solutions
8. Lexmark International nv/sa
9. Murata Machinery Europe GmbH
10. OKI (UK) Ltd.
11. Panasonic Europe Ltd.
12. Ricoh Europe PLC
13. Samsung Electronics Europe
14. Sharp Electronics GmbH
15. Toshiba TEC Germany Imaging Systems GmbH
16. Xerox

2 Objectives

2.1. Contribute to the objectives of Directive 2009/125/EC establishing a framework for the setting of ecodesign requirements for energy-related products, in line with Recitals 18-21 Article 17 and Annex VIII on self-regulation measures.

2.2. Continuously improve the environmental performance of the types of imaging equipment in scope of this agreement.

2.3 Educate users, in particular end-users, on best practices for environmental printing.

2.4. Promote and secure better energy efficiency for household and office imaging equipment.

2.5. Ensure the involvement of all stakeholders represented in the Consultation Forum in monitoring of the results and updating the requirements of the Voluntary Agreement.

3 Scope

The objectives of this Voluntary Agreement are to:

3.1 Core definitions

General: **All terms used in this section are defined in** Annex C, Part VII to the Agreement between the Government of the United States and the European Community on the coordination of energy-efficiency labelling programmes for office equipment, as set out in the Annex to the Commission Decision 2009/347/EC on ENERGY STAR ® [4].

3.2 Product scope

In this Voluntary Agreement, “products” means imaging equipment meeting the conditions in section 3.3. The terms “imaging equipment” and “product” do not include cartridges or other consumables.

3.3 Scope

3.3.1 Product categories: The Voluntary Agreement covers imaging equipment belonging to one of the following product categories that have been reviewed in the ErP Lot 4 preparatory study:

- Copiers
- Multifunction Devices (MFDs)
- Printers
- Fax machines.

[4] The EU ENERGY STAR ® program follows an Agreement between the Government of the US and the European Community (EU) to co-ordinate energy labelling of office equipment. It is managed by the European Commission. US partner is the Environmental Protection Agency (EPA) that started the scheme in the US in 1992. Latest EU documents can be found at http://eur-lex.europa.eu/JOHtml.do?uri=OJ:L:2013:063:SOM:EN:HTML

3.3.2 Cartridges: This **refers to** cartridges produced by or recommended by the OEM[5] for use in the products set out in 3.3.1.

3.3.3 Marking technologies: **This Agreement is limited to** the following marking technologies:

- Electrophotography (EP)
- Inkjet (IJ), including high performance IJ
- Solid Ink (SI).

3.3.4 Household and office equipment: This Voluntary Agreement is limited to household and office equipment, meaning:

- Standard black & white (BW) format products with **maximum speed** < 66 A4 images per minute
- Standard Colour format products with maximum speed <51 A4 images per minute

(Speed to be rounded to the nearest integer as prescribed in the ENERGY STAR ® agreement).

Other format products can be included in their reporting by individual Signatories on a voluntary basis but will not count for the target specified in 4.1 a).

4 Commitments Part I – Primary Design Requirements

A model is considered Part I qualified when it meets all the requirements as detailed in section 4.

4.1 Primary requirements

a) Products as defined in section 3.2 and placed on the EU market by Signatories after 1 January 2015 shall comply with the specifications of ENERGY STAR ® v2.0 and default duplex settings requirements set out in sections b) and c) below in accordance with the following targets:

	Period	**OM products placed on the EU market**	**TEC products placed on the EU market**
Tier I	Jan-Dec 2015	90%	70%
Tier II	Jan-Dec 2016	93%	80%

[5] See OEM definition in Annex A below

Tier III*	Jan-Dec 2017	□93%	□80%

*Tier 3 targets will be reviewed by the Steering Committee after the publication of the tier 1 report in April 2016. The tier 1 report will be used to assess the tier 3 targets. The Steering Committee will define the tier 3 targets before 31 December 2016.

NB: Products placed on the EU market between 1 January and 31 December 2014 remain subject to version 4 of the Voluntary Agreement.

For the purposes of measuring compliance with this section, the rate of compliance shall be calculated following the methodology described in Annex B.

b) The specifications in ENERGY STAR ® v2.0[6] with which the Signatories shall comply are those concerning:

- Energy consumption requirements (TEC and OM products);
- Default delay times (OM products); and
- Duplex availability (TEC products).

c) For new TEC product models first placed on the EU market after 1 January 2015, duplex-printing for TEC products in the relevant speed category specified in the table below is to be set as default when printing from the computer, meaning that the relevant software (driver or firmware) shall be configured so that the first print-job will be in duplex unless the print settings have been modified at the stage when the product is first installed to function as intended.

6 ENERGY STAR ® Product Specification for Imaging Equipment – Eligibility Criteria (Version 2.0, Rev. Sep-2014

Automatic Duplexing Requirements for all Color TEC Copiers, MFDs, and Printers Monochrome Product Speed, *s*, as Calculated in the Test Method (ipm; BW)	**Automatic Duplexing Requirement**	**Default Duplex set at shipment or installation**
$s \leq 19$	None	Not applicable
$19 < s < 35$	Integral to the base product or optional accessory	At discretion of either the user or manufacturer
$s \geq 35$	Integral to the base product	Required
Automatic Duplexing Requirements for all Monochrome TEC Copiers, MFDs, and Printers Monochrome Product Speed, *s*, as Calculated in the Test Method (ipm)	**Automatic Duplexing Requirement**	**Default Duplex set at shipment or installation**
$s \leq 24$	None	Not applicable
$24 < s < 37$	Integral to the base product or optional accessory	At discretion of either the user or manufacturer
$s \geq 37$	Integral to the base product	Required

4.2 Special single-sided media

TEC products whose intended function is to print on special single-sided media for the purpose of single sided printing (e.g. release coated paper for labels, direct thermal media, etc.) are exempt from the duplex requirements.

5 Commitments Part II – Other Resource Efficiency Requirements

5.1 Availability of N-up printing

All product models first placed on the EU market after 1 January 2012 shall offer as a standard feature the capability to print several pages of a document on one sheet of paper, when the product is managed by original software provided by the manufacturer (printer driver). A model is considered Part II qualified when it meets all the requirements as detailed in section 5.

5.2 Design for recycling

For all product models first placed on the EU market after 1 January 2012:

- Plastic parts >100 g shall be manually separable into recyclable plastic streams with commonly available tools.
- Product shall utilize commonly used fasteners for joining components, subassemblies, chassis and enclosures.
- Non-separable connections (e.g. glued, welded) between different materials shall be avoided unless they are technically or legally required.
- Product plastics shall be marked by material type (ISO 11469 referring ISO 1043, resin identification code, SPI, DIN, or country specific). Marking requirement does not apply to plastic parts weighing less than 25 g or with surface area less than 50 cm²; tape; plastic protective and stretch wraps and labels; or plastic pieces when due to shape marking is not possible. Exempted are plastic parts contained in reused complex modules.

An exemption from the criteria in sections 5.1 and 5.2 will be acceptable for models that are sold in small numbers (less than 5,000 units per year), on the ground that the cost of implementing the criteria is disproportionate to the sales of the product. Exceptions should be reported to the Independent Inspector (see Annex C for reporting template).

5.3 Polymer composition

For all new TEC product models first placed on the EU market after 1 January 2015:

In order to limit the variety of materials used, plastic casing parts with a mass greater than 100 grams have to consist of one single polymer or a polymer blend.

All plastic casing parts may only consist of up to four separable polymers or polymer blends.

Large-sized casing parts must be designed in a way that the contained plastics can be used for the production of high-quality durable products by applying available recycling techniques.

The use of coatings for special parts is to be reduced to a minimum, unless it can be demonstrated that it does not alter recyclability. Galvanic coatings on plastic parts are not permissible.

5.4 Cartridges

For all new product models first placed on the EU market after 1 January 2015:

5.4.1 Any cartridge produced by or recommended by the OEM for use in the product shall not be designed to prevent its reuse and recycling.

5.4.2 The machine shall not be designed to prevent the use of a non-OEM cartridge[7].

5.4.3 Signatories shall be excused from the requirements of Sections 5.4.1 and 5.4.2 only if the design or technology that is inconsistent with those requirements is necessary to achieve an innovation, development or improvement in the functionality of the product or the cartridge that provides a benefit to the user.

5.5 Recycled plastic content

For all new product models first placed on the EU market after 1 January 2015, Signatories shall make information available to customers on the minimum

[7] See definition in Annex A below.

percentage8 of postconsumer recycled plastic content, calculated as a percentage of total plastic (by weight) in each product.

The following may be excluded from the calculation of the percentage: printed circuit boards, labels, cables, connectors, electronic components, optical components, electrostatic discharge (ESD) components, electromagnetic interference (EMI) components, and biobased plastic material. Products that do not contain plastics can declare "Not applicable" for this criterion.

6 Commitments Part III – Information Requirements for End-Users

A model is considered Part III qualified when it meets all the requirements as detailed in section 6.

6.1 Resource efficiency and energy efficiency

For new product models first placed on the EU market after 1 January 2012, Signatories commit to providing end-users with information regarding resource efficiency when using imaging equipment. The intent is to ensure the end-user is made aware of good efficiency practices when they first begin to use a new product.

Signatories shall achieve this through one of the following methods:

- A pop-up screen on the end-users' computer during the initial installation of software (preferred)[9]
- A CD or publicly available website
- An insertion sheet provided in/on the box of the product as defined in Section 3 above
- An information sheet to be provided at the time of sale of the product as defined in Section 3 above

The following information shall be provided as a minimum[10] where applicable:

Information that recycled as well as virgin paper certified under environmental stewardship initiatives, or carrying recognised ecolabels, may be suitable providing that it meets appropriate quality standards as defined, for example, in EN 12281 on "Printing and business paper for dry toner imaging processes" for

[8] In increments of 0-5%, 5-10%, 10-15%, etc. A possible definition of postconsumer recycled plastic content can be found for example in EPEAT: A material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item; part of the broader category of "recovered" items.

[9] This can only be implemented when imaging equipment is managed through computers under mainstream Operating Systems (Microsoft Windows or Mac/OS)

[10] Not all 5 statements mentioned in section 5.1.1 may be applicable to the product that is equipped with this information. Manufacturers are free to choose if they add a statement to this effect to the information, or leave out statements that are not applicable, such as the statement regarding electrophotography and duplex printing.

papers in the range 75-250 g/m^2. For specific applications, the lower boundary may be chosen at 64 g/m^2.

6.1.1 For Electro Photography printers: indication that these can print on 64 g/m² paper and that this paper contains less raw material per print, thus saving significant resources.
6.1.2 Energy can be saved by purchasing ENERGY STAR ® qualified products.
6.1.3 Description of the benefits of printing in duplex mode (for TEC products having a duplex function).
6.1.4 The environmental benefits of power management.

The information as described in sections 6.1.1 through 6.1.4 shall be provided in the form of compact statements.

Paper weight mentioned in the pop-up window (or alternatives as described above) shall be consistent with the paper weight specifications of the product.

6.2 Availability of spare parts

For new product models first placed on the EU market after 1 January 2015, Signatories shall make available spare parts for the minimum time periods after the end of product manufacturing:

- For Electrophotography, Solid Ink and High Performance Inkjet models - 5 years
- For Inkjet models - 3 years

Making spare parts available shall only involve offering spare parts for sale through their usual spare part distribution channels and shall not require Signatories to trade directly with Customers or users.

The manufacturer can declare its compliance with this requirement through declarations made on the ECMA-370 Form or other corporate statements.

Failure by a signatory to comply with any provision of this clause shall not be a non-compliance (for the purposes of section 12 or otherwise) if and to the extent that it is caused by a Force Majeure event. Nor shall it be a non-compliance with this section if the manufacturer has, at the end of product manufacturing, established a sufficient stock of spare parts to meet reasonably anticipated demand during the specified period but that stock has been exhausted.

Spare parts are accessible and exchangeable by professionals in repair centres. Spare parts that can be exchanged by end users are available for customers for purchase.

For spare parts that are offered to end users, replacement instructions are to be made available either online or on the product manual.

In this section, “spare parts” means those parts which it is reasonably anticipated by the manufacturer of a model as being likely to fail during the typical use of the product. In contrast,

those parts whose life cycle usually exceeds the usual life of the product do not have to be made available as spare parts.

6.3 Cartridge disposal and treatment

For new product models first placed on the EU market after 1 January 2012, Signatories shall provide end-users with information on suitable end-of-life management options for used cartridges. This information may be communicated via a company website.

6.4 Information on Paper recyclability

For new product models first placed on the EU market after 1 April 2015 Signatories shall make available and provide to users information regarding recycled paper via website or other means.

Example statements are listed below:

- Recycled paper promotes the circular economy with more recycling saving more natural resources.
- The use of waste paper to produce recycled paper significantly reduces the amount of energy and water consumed compared to virgin fiber paper. In addition, the forest resources are conserved - an important contribution to biodiversity! Existing environmental savings can be enhanced in a simple and efficient manner.
- Modern recycled paper meets the highest quality requirements for different printing processes - appropriate standards guarantee this. The imaging equipment supplied by the VA signatories is suitable for using with recycled paper meeting the EN 12281:2002 standard.
- Regarding archiving - recycled paper meets all requirements for long-term storage.
- The use of recycled paper is a visible and credible sign of ecological, resource-efficient behavior.

6.5 Improvement on Paper recyclability

The Signatories recognise that it is important for the paper manufacturing, printer, and paper recycling industries to work together in order to promote paper recycling. The Signatories also agree (through the vehicle of EuroVAprint) to seek common ground with the paper manufacturing and paper recycling industries during the consultation period for the next revision to the Voluntary Agreement.

6.6 Information on product environmental characteristics to be provided by Signatories

The following applies to products placed on the market after 1 January 2012:

6.6.1 Signatories shall make information on the environmental performance of their models available to Customers. This should include as a minimum the mandatory information required in ECMA 370 (see Annex F).

6.6.2 Signatories shall make information on inkjet and toner cartridge yield available to Customers based on the measurement standards specified, for example, in ISO/IEC 24711:2006 (for ink), ISO/IEC 19752:2004 (for monochrome toner), ISO/IEC 19798:2006 (for colour toner), and through other company methods.

6.7 Exemption for small numbers

The obligations in sections 6.1, 6.3 and 6.6 do not apply for models that are sold in small numbers (less than 5,000 per year), on the ground that the cost of implementing those obligations is disproportionate to the sales of the product. Exemptions should be reported to the Independent Inspector (see Annex C).

7 Independent Inspector

The Independent Inspector is an independent third party designated by the Steering Committee who is tasked with, and responsible for:

- collecting and processing information supplied by Signatories pursuant to Section 7, Annex B and Annex C;
- determining a Signatory's compliance with the Agreement; and
- for the carrying out of audits.

The Steering Committee shall engage the services of the Independent Inspector upon terms and conditions that shall require undertakings of confidentiality from the Independent Inspector, and which shall also set out any requirements or applicable mechanisms for a process of appeal, in case this is ever be necessary. The Commission shall have the right to veto the choice of the Independent Inspector.

The engagement of the Independent Inspector shall require to:

- Observe confidentiality, where necessary, in order to protect commercial secrets or to preserve sensitive data of a Signatory. The Independent Inspector should sign *'Nondisclosure Agreements'* with all the Signatories to the self-regulation measure,
- Be impartial in all its actions and base its opinions and reports only on the facts,
- Interpret applicable rules and figures in a truthful and sincere manner,

- Be free of conflicts of interest and preferably not have any business or other relevant relationship with the Signatories or at least disclose such relationship at the earliest possible stage,
- Perform its tasks with due care and supervise adequately all performed tasks for which it will be responsible.

Information about the Independent Inspector chosen for the self-regulation measure should be published on the website dedicated to the self-regulation measure within thirty days following its appointment.

The Independent Inspector shall have an observer seat at the Steering Committee.

8 Reporting

8.1 Reporting frequency

Signatories shall submit reports to the Independent Inspector reporting based on compliance with the Voluntary Agreement (the "Reports") according to the guidelines in this Section.

The Reports shall be provided according to the template in Annex C.

The Independent Inspector shall be required to publish Annual Compliance Reports according to the following schedule:

- A Report by 30 April 2016 which shall cover products placed on the market between 1 January 2015 and 31 December 2015.
- A Report by 30 April 2017 which shall cover products placed on the market between 1 January 2016 and 31 December 2016.
- A Report by 30 April 2018 which shall cover products placed on the market between 1 January 2017 and 31 December 2017.

Unless differently stated in forthcoming revisions of the current Voluntary Agreement, the following reports shall be published by the 30 April of each year covering products placed on the market during the previous full calendar year, e.g. by 30 April 2019 for products placed on the market between 1 January 2018 and 31 December 2018.

Within two weeks following the end of a reporting period, the Independent Inspector shall be required to send a request to the Signatories to file their Reports. These shall be submitted no later than two months and two weeks after the end of the reporting period.

The Reports shall be compiled by the Independent Inspector into a draft annual progress report (the "Annual Progress Report") that will be submitted to the European Commission and the Signatories by the 12 April of the calendar year following the end of the reporting period for the purpose of checking inconsistencies and quality. The Independent Inspector will submit the Final Annual Progress Report to the Steering Committee no later than 30 April of the calendar year following the end of the reporting period.

This Annual Progress Report will only show anonymous results. Signatories will not be named although individual achievements shall be disclosed (company A, company B, etc.). If a company is found to be non-compliant, the Annual Progress Report shall provide the identity of the Signatory and detail the reasons for such non-compliance.

The Independent Inspector shall be responsible for ensuring that confidentiality of the Signatory's identity and any data or information provided to it under or in relation to this agreement is maintained. This shall include entering into a non-disclosure agreement with each Signatory if requested by the Signatory.

8.2 Background data

The Annual Progress Report shall also include a table of anonymised models (per company A, B, etc.) showing how they qualify for the Voluntary Agreement but not including the number of products placed on the market.

If a member or observer in the Steering Committee or a national market surveillance authority wants to verify the qualification of a product that falls under the Voluntary Agreement, the request has to be addressed to the Independent Inspector and the Signatory. Only the Independent Inspector shall provide the organisation with the qualification status of a model (yes/no) on a confidential basis within two weeks. Within four weeks of receiving the information, the organisation shall be required to inform both the Independent Inspector and the Signatory of the results of the verification.

The Independent Inspector shall be required only to respond to requests for specific models and is not allowed to disclose lists on the qualification status of a Signatory's product portfolio in regards of the commitments that products have to meet.

8.3 Energy consumption report

The Signatories are to procure that EuroVAprint publishes once a year on its website an energy usage report that is prepared by the independent inspector.[11] The first report will cover products placed on the market between 1 January 2015 and 31 December 2015.

The report is to contain the following data:

- Total energy consumption of OM units per year
- Total energy consumption of TEC units per year

9 Auditing/Investigation

Audits should only apply to requirements that can be tested and measured.

In order to avoid unnecessary or baseless audits, Signatories of the VA agree that audits can be random and/or intelligence based, provided that at least all of the following requirements apply:

9.1 Random-based audit

- The Steering Committee is to decide on the number of audits performed per year under a self-regulation measure. The number of audits to be performed in a given year must take into account the number of the Signatories to the self-regulation measure and should not be less than two.
- The Signatories will finance a maximum of two audits per year. The Signatories to be audited shall be chosen at random by the Independent Inspector.

[11] http://www.eurovaprint.eu/home

- A higher number of audits can take place (more than two) provided that an external body bears the cost of the products to be audited and the cost of the Independent Inspector.
- The name of the Signatories to be audited will be notified to the Steering Committee.
- A company that has been audited cannot be audited at random for another two years.

9.2 Third Party Non-Compliance Allegation (intelligence based)

Subject to provisions on fees outlined below, the Independent Inspector shall investigate an allegation by a Third Party of a specific instance of non-compliance with the Voluntary Agreement by a specific Signatory.

a) The Third Party shall submit a fee to be held in escrow (Escrow) in order to initiate the Independent Inspector's investigation. Said investigation shall not start until the Escrow is in place. The costs for the Third Party non-compliance allegation process is described and shall be allocated as described in Annex E.
b) The Independent Inspector will submit the findings of its investigations to the Steering Committee within four weeks of receiving confirmation that the fee is held in Escrow.
c) The Steering Committee shall inform the Third Party in writing of the Independent Inspector's findings within two weeks of the receiving the findings..

10 Nature and Organization of the Voluntary Agreement

10.1 Nature of the Voluntary Agreement

Each Signatory signs and enters into this Agreement only on its own behalf and makes its commitment under the Voluntary Agreement to the European Commission. The consequences of non-compliance are set out in section 12.

This Agreement is not a commercial agreement and shall not give rise to any commercial expectations or liabilities between the Signatories in respect of the fulfilment of their individual Commitments as listed in this Voluntary Agreement.

Each Signatory shall be treated equally and there shall be no special arrangements for individual Signatories.

10.2 Organisation of the Voluntary Agreement

Signatories and the European Commission are members of the Steering Committee. Each Signatory to the Voluntary Agreement as well as the European Commission shall have the right to nominate one person to represent it at the Steering Committee.

The Steering Committee shall elect, from amongst its members, a Chair for a mandate of two years. The members of the Steering Committee can shorten or end the term of the Chair at any time. The Chair shall be responsible for convening the Steering Committee at least twice a year, in order inter alia to

review progress and analyse and discuss reports presented by the Independent Inspector. The Chair shall, however, have no executive or representative function unless this is delegated to them by the Steering Committee.

Meetings of the Steering Committee shall be open to the following (non-voting) observers:

- Any representatives of EU Member States, as well as Member States of the EEA or EFTA; and
- Organisations that have a permanent seat on the Ecodesign Consultation Forum.

The Chair, after consulting the Steering Committee, may invite one representative from an organisation as a (non voting) observer. Provided such organisations clearly state the interests and organisations they represent, they may participate in Steering Committee meetings on a case-by-case basis.

The Chair must convene a Steering Committee meeting whenever any of the conditions justifying the termination of the self-regulation measure mentioned hereafter occur. The meeting must be convened within thirty days of the receipt by the Chair of the information about the condition justifying the termination of the self-regulation measure.

Any member of the Steering Committee may request the Chair to convene a meeting of the Steering Committee.

Invitations to the Steering Committee meeting must be sent to all members of the Steering Committee, and must be posted on a website of the self-regulation measure not later than thirty days in advance of the meeting.

Documents to be presented and discussed at the Steering Committee meeting must be sent to all members of the Steering Committee, and must be posted online no later than 7 working days in advance of the meeting.

10.3 Transparency of the Voluntary Agreement

EuroVAprint has set up a website to ensure full transparency of the VA.[12] It will provide the below information:

- Full members list
- Latest VA text
- Official Commission guidelines
- Annual compliance reports
- Non-compliance Reports from the independent inspector
- Exclusion of a non-compliant Signatory
- Minutes of Steering Committee meetings
- Annual energy usage report
- Annual market coverage of all Signatories and market coverage update after any change of Signatory status

[12] http://www.eurovaprint.eu/home

11 Voting rules

The Steering Committee will seek to achieve agreement by consensus at all times. If consensus cannot be achieved, the Steering Committee may reach a decision in accordance with the voting procedures described below. The Steering Committee may decide to develop and adopt further rules of procedure where it deems it necessary and may decide to delegate powers where it deems it to be necessary to specific individuals or to sub-committees.

All reasonable efforts shall be taken to ensure that the decisions of the Steering Committee are taken on the basis of a consensus.

However, where consensus on an issue cannot be achieved in the course of a meeting of the Steering Committee, a call for an indicative vote may be made by the Steering Committee Chair or by a Quorum.

During any voting procedure of the Steering Committee each Signatory shall be entitled to cast a single vote. Only VA Signatories (EuroVAprint members or otherwise) and the European Commission enjoy full voting rights.

If the indicative vote indicates a favourable outcome (two-thirds of those present/represented and voting or greater in favour) but a consensus is nonetheless not achieved, a call for a deciding vote may be made by a Quorum to be held at the following meeting of the Steering Committee. At such second meeting, the adoption of a decision shall be made in accordance with the Voting Rules. At such second meeting, the adoption of a decision shall require:

a. A Quorum

b. The agreement of a two-thirds (of those present and voting) majority of the Quorum.

12 Non Compliance

If a Signatory fails to meet its commitments under Sections 4, 5, or 6 of the present VA, the Signatory should be subject to an audit in the year following the default.

If this audit finds that the Signatory is still not in compliance, it will be considered to have withdrawn from the VA.

In case of non-compliance with the deadlines in Section 8, the Signatory will have 1 month to propose a compliance plan that would correct the situation. Should this Signatory fail to comply with this deadline, or fails to meet its obligations for a second year in a row, it shall be considered to have withdrawn from the VA.

The defaulting company may reapply for membership of the Voluntary Agreement.

13 Revision of the Voluntary Agreement

Signatories will initiate the revision of the Voluntary Agreement and its commitments three months after the publication by the U.S EPA of new ENERGY STAR® specifications for Imaging Equipment.

14 Withdrawal from the Agreement

Signatories can terminate their individual participation in the Voluntary Agreement by sending a registered letter to the Chair of the Steering Committee and the secretariat of EuroVAprint, who shall inform the Steering Committee.

15 Termination of the Voluntary Agreement

The Signatories may decide to terminate the Voluntary Agreement at any time. Reasons for termination could be, but are not limited to:

- Signatories no longer meet the relevant market coverage threshold (80%) and this continues for a period over six months;
- A majority of Signatories no longer meet the Commitments of the Voluntary Agreement;
- Legislation is implemented that overrules or conflicts with the Voluntary Agreement;
- Signatories have a considerable disadvantage over “free riders”.

Annex A: Definitions

All terms used in this document and not defined in this Annex A are defined in Annex C, Part VII to the Agreement between the Government of the United States and the European Community on the coordination of energy-efficiency labelling programmes for office equipment, as stated in the Annex of Commission decision 2009/347/EC (EU ENERGY STAR®)

1. **Signatories**: means all member companies that have signed this Voluntary Agreement. See in section 1 the name of Signatories of this Voluntary Agreement.

2. **OEM** (original equipment manufacturer): a company that manufactures and commercializes/imports products under its own brand name into the EU territory.

3. **Potential Signatories:** Means OEM, which manufacture and commercialize/import at least one device of the product categories listed in Section 3.2.

4. **Commitments:** Means the Commitments described in Sections 4, 5 and 6 to this Agreement altogether.

5. **Defaulting Signatories**: Means all Signatories given the status of Defaulting Signatory by the Steering Committee in accordance with Section 12.

6. **Copier**: A commercially-available imaging product whose sole function is the production of hard copy duplicates from graphic hard copy originals. The unit must be capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as copiers or upgradeable digital copiers (UDCs).

7. **Fax Machine:** Commercially-available imaging product whose primary functions are scanning hard copy originals for electronic transmission to remote units and receiving similar electronic transmissions to produce hard copy output. Electronic transmission is primarily over a public telephone system, but also may be via computer network or the Internet. The product also may be capable of producing hard copy duplicates. The unit must be capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as fax machines.

8. **Multifunction Device (MFD):** A commercially-available imaging product, which is a physically-integrated device or a combination of functionally-integrated components that performs two or more of the core functions of copying, printing, scanning, or faxing. The copy functionality as addressed in this definition is considered to be distinct from single sheet convenience copying offered by fax machines. The unit must be capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as MFDs or multifunction products (MFPs).

9. **Printer:** A commercially-available imaging product that serves as a hard copy output device, and is capable of receiving information from single-user or networked computers, or other input devices (e.g., digital cameras). The unit must be capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as printers, including printers that can be upgraded into MFDs in the field.

10. **Model**: An imaging equipment hardware product that is sold or marketed under a unique model number or marketing name. A product model may be comprised of a base product or a base product plus accessories.

11. **Electrophotography (EP):** A marking technology characterized by illumination of a photoconductor in a pattern representing the desired hard copy image via a light source, development of the image with particles of toner using the latent image on the photoconductor to define the presence or absence of toner at a given location, transfer of the toner to the final hard copy medium, and fusing to cause the desired hard copy to become durable. Types of EP include Laser, LED, and LCD. Colour EP is distinguished from monochrome EP in that toners of at least three different colours are available in a given product at one time. Two types of colour EP technology are defined below:
    a. Parallel Colour EP – A marking technology that uses multiple light sources and multiple photoconductors to increase the maximum colour printing speed.
    b. Serial Colour EP – A marking technology that uses a single photoconductor in a serial fashion and one or multiple light sources to achieve the multi-colour hard copy output.

12. **Ink Jet (IJ):** A marking technology where images are formed by depositing colorant in small drops directly to the print media in a matrix manner. Colour IJ is distinguished from monochrome IJ in that more than one colorant is available in a product at any one time. Typical types of IJ include Piezo-electric (PE) IJ, IJ Sublimation, and Thermal IJ.

13. **High Performance IJ:** The use of an IJ marking technology in high-performance business applications usually occupied by Electrophotographic marking technology. This difference between the conventional IJ product and the High Performance IJ product is denoted by the presence of nozzle arrays that span the width of a page and/or the ability to dry the ink on the media through additional media heating mechanisms.

14. **Solid Ink (SI):** A marking technology where the ink is solid at room temperature and liquid when heated to the jetting temperature. Transfer to the media can be direct, but is most often made to an intermediate drum or belt and then offset printed to the media.

15. **Member States:** The Member States of the European Union

16. **Quorum**: Two thirds of the Signatories who requested to be on the Steering Committee being present at a meeting.

17. **Consultation Forum**: as defined by Article 18 of the 2009/125/EC Directive, and 2008/591/EC Commission Decision, the assembly ensuring a balanced participation of Member States' representatives and all interested parties concerned with the product or product group in question

18. **Steering Committee:** The co-ordinating and governing body of this Voluntary Agreement, appointed in accordance with the principles set out in Section10.

19. **Compliance period:** The period over which companies measure their performance against the Commitments of the Voluntary Agreement.

20. **Placing on market**: The act of making a product or a model (as the case may be) available for the first time on the Community market with a view to its distribution or use within the Community whether for reward or free of charge and irrespective of the selling technique. Guidance on this definition is available in the Guide to the Implementation of Directives Based on New Approach and Global Approach. http://ec.europa.eu/enterprise/policies/single-market-goods/documents/internal-market-for-products/new-legislative-framework/index_en.htm#h2-3

21. **End-user:** A person who uses the imaging equipment for one of its main functions (e.g. printing, scanning, copying). The end-user has control over the environmental impact of the product by choosing the type and weight of paper and by using duplex and/or n-up printing. Further, the end-user can be expected to exchange consumables e.g. cartridges.

22. **Customer/purchaser:** A person or legal entity who takes purchasing decisions for the products covered in this Voluntary Agreement.

23. **TEC: Typical Electricity Consumption** method for the Version 2.0 ENERGY STAR ® Imaging Equipment (IE) specification. The procedure is to be used to obtain and evaluate the TEC of Standard-size IE products such as copiers, digital duplicators, fax machines, multifunction devices (MFDs), and printers that use high-temperature technologies such as Electrophotography (EP) and Solid Ink (SI), and those that provide comparable functionality. It is not intended for low-temperature technologies such as conventional Ink Jet (IJ) or Impact, nor for Large-format or Small-format products. The key result of this test procedure is a value for typical weekly electricity consumption.

24. **OM**: **Operational Mode:** ENERGY STAR ® Imaging Equipment (IE) specification. The procedure is to be used to quantify the power consumption of imaging products that do not utilize the Typical Electricity Consumption (TEC) method. Examples of products that will be tested with this OM method include those that use marking technologies such as Ink Jet, Dot Matrix or Impact, as well as scanners and all large-format and small-format devices. The key results of this test procedure are power values for Ready, Sleep, and Off modes.

25. **Standard Size Format Product:** Products categorized as Standard include those designed for standard-sized media (e.g., Letter, Legal, Ledger, A3, A4, and B4), including those designed to accommodate continuous-form media at widths between 210 mm and 406 mm. Standard-size products may also be capable of printing on small-format media.

26. **Commonly available tools:** Widely used, commercially available tools.

27. **Non-OEM Cartridge:** A toner or ink cartridge not sold by the OEM that is remanufactured and/or refilled.

28. A model is considered qualified for the Voluntary Agreement when it is in scope and meets all the requirements as detailed in sections 4, 5 and 6.

Annex B: Calculating the compliance rate

The compliance rate is the percentage of Part I qualified units in scope and placed on the market in relation to the total number of units in scope and placed on the market. A model is considered Part I qualified when it meets all the requirements as detailed in section 4.1. This means that if a model doesn't meet a requirement it will not be counted towards the company compliance rate. The compliance rate will be calculated to 2 significant figures as a sales weighted number meaning that models with high sales will weigh heavier in calculating the compliance rate than low sales models.

$$\text{Compliance} \quad \frac{\text{Part I qualified units in scope and placed on the market}}{\text{Total units in scope and placed on the market}}$$

Table 1 shows a simplified example of how a Signatory must calculate the compliance rate of shipments for a given period for OM products

EU shipments from 1st January 2015 to 31st December OM products							
		Sleep power(W	OM Max slee power allowand (W)	OM defaul dela time	Produc meets commitm ents I (Y/N)	Total units shippe	Total Part qualified units
Model 1	IJ	2	1,	Y	N	50	0
Model 2	IJ MFD	4,	4,	Y	Y	70	70
Model 3	IJ MFD	4	4,	Y	Y	120	120
Model 4	IJ	2,	2,	Y	Y	90	90
					Total	330	280
					Compliance rate **85**		

Table 2 shows a simplified example of how a Signatory must calculate the compliance rate of shipments of TEC products for a given period

EU shipments from 1st January 2015 to 31st December 2015 TEC products										
		Introduction date	Mono print speed (ipm)	TEC measured (kWh/week)	Max TEC(kWh/ week)	standard automatic duplex capability (Y/N)	duplex set as default (Y/N)	Product meets VA commit ents Part I (Y/N)	Total units shipped	Total Part I qualified units
Model 1	EP mono printer	October 2013	15	2	1,2	NA	NA	N	20	0
Model 2	EP mono MFD	October 2013	30	1,8	2,2	NA	NA	Y	20	20
Model 3	EP color printer	October 2013	38	5	5,2	Y	NA	Y	60	60
Model 4	EP color MFD	February 2014	32	4,3	4,5	NA	NA	Y	100	100
Model 5	EP mono printer	February 2014	40	2,5	3	N	N	N	40	0
Model 6	EP mono MFD	February 2014	45	3,5	3,8	Y	N	N	50	0
Model 7	EP color MFD	February 2014	42	6	7,1	Y	Y	Y	70	70
								Total	360	250
								Compliance rate		**69%**

Annex C: Reporting form to be used to report to Independent Inspector

Annex C (1): Reporting form to be used to report to Independent Inspector

Template for reporting OM products

OM Products												
A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**	**L**	**M**
Product Name	Nb units shipped	Product Description	Product Introduced On/After January 1, 2012? (Y/N)	Product Introduced On/After January 1, 2014? (Y/N)	OM Measured Product Sleep Power (W)	ENERGY STAR® 2.0 OM Sleep Power Allowance (W)	Passes OM Sleep power requirement (Y/N)	Meets OM default delay time (Y/N)	Product meets VA commitments Part I (Y/N)	Percentage range of recycled plastic content	Product meets VA commitments Part II and III (Y/N)	When product does not meet VA commitments Part II and III list commitments that are not met
		Monochrome non-MFD								0%		
		Monochrome MFD								0 to 5%		
		Color non-MFD								5 to 10%		
		Color MFD								10 to 15%		
										15 to 20%		

Annex C (2) Reporting form to be used to report to Independent Inspector

Template for reporting TEC products

TEC Products														
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Product Name	Nb units shipped	Product Description	Product Introduced On/After January 1, 2012? (Y/N)	Product Introduced On/After January 1, 2014? (Y/N)	Mono print speed (ipm)	Measured TEC (kWh/week)	ENERGY STAR ® 2.0 TEC limit (kWh/week)	Passes TEC requirement (Y/N)	Meets Auto Duplex Capability requirement (Y/N)	Default Auto Duplex Enabled (see cell note) (Y/N)	Product meets VA commitments Part I (Y/N)	Percentage range of recycled plastic content	Product meets VA commitments Part II and III (Y/N)	When product does not meet VA commitments Part II and III list commitments that are not met
		Monochrome non-MFD										0%		
		Monochrome MFD										0 to 5%		
		Color non-MFD										5 to 10%		
		Color MFD										10 to 15%		
												15 to 20%		
												over 20%		

List of products that are exempted from the statements of this report:

The following products are exempted from the statements of this report:

Reports on exceptions should include:

- To what requirement is the exemption reported?
- Which are the exempted products?
- What are the annual sales of these products?

Annex D: Signing Form

The organisation/company/
……..

Signs Industry Voluntary Agreement version 5.1 to improve the environmental performance of imaging equipment placed on the European market.

For the Signatory

Director or person authorised to sign:

Name: ……
Function:……..
Address:……..
……
……
..……..

Date: …….
Signature…….

Contact Person for the Organisation/Company:
Name: ……
Function:……..
Email:……...
Telephone:……..

Please send a duly signed and completed Signing Form to:
EuroVAprint
52 rue Defacqz
1050 Brussels
Belgium
secretariat@eurovaprint.eu
www.eurovaprint.eu

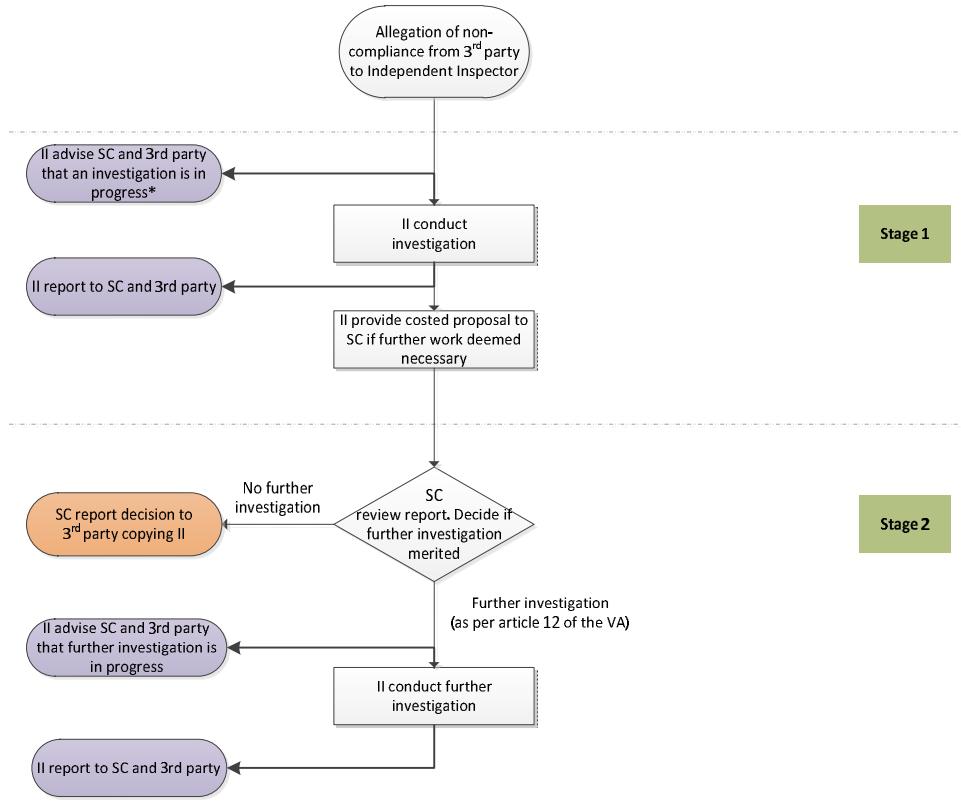
Annex E: Third Party Non-Compliance Allegation Process

RELATED COSTS OF THIRD PARTY NON-COMPLIANCE ALLEGATION PROCESS

The costs of the Third Party non-compliance allegation process shall be allocated as follows:

1. Allegations of non-compliance must be submitted by Third Parties with a fee held in escrow (Escrow) fixed at €**4,000** in order to discourage vexatious allegations. The Escrow amount shall be adjusted to be in line with inflation on an annual basis. The Independent Inspector's investigation shall not begin until the Escrow is place.
2. In the event of the allegation not being upheld by the Independent Inspector's investigation, the costs of the investigation shall be recovered from the Third Party by way of the Escrow. The Third party shall also be responsible for additional costs incurred beyond the amount of the Escrow
3. In the event of the allegation being upheld by the Independent Inspector, the Escrow shall be refunded to the Third Party and all investigation costs shall be paid by the Signatory which is found to be non-compliant.

3rd Party Non-Compliance Allegation Process
(VA v5.1 - Section 9)



* The name of the 3d party making the allegation, the type of allegation and the name of the signatory in question will be disclosed to the SC.

Prep : AS/CJR 20141021

Annex F: Example of Product Environmental Information

Following is an example of product environmental information provided by Signatories, based on the ECMA 370 standard. Other standard formats can be used by Signatories.

Product environmental attributes – THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).

Additional information regarding each item may be found under P14.

Brand *	***Brand123***	**Logo**
Company name *	***Company123***	LOGO
Contact information *	Mr. John Smith ***J.Smith@company123.com***	
Internet site *	www.company123.com	
Additional information		

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 *	***MFP***
Commercial name *	***Model123***
Model number *	***123***
Issue date *	***xx.xx.2014***
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.

15.1 Quality Control		Requirement met	
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	☒	☐
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen.	☐	☒

Model number *	123		
Issue date *	xx.xx.2014	Logo	LOGO

15.2 Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
P1	**Hazardous substances and preparations**			
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B^1)	☒	☐	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	☒	☐	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	☒	☐	
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	☒	☐	
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	☒	☐	
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.	☐	☐	☒
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)	☐	☐	☒
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.	☐	☐	☒
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm^2/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.	☐	☐	☒
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): *www.company123.com/REACH*	☒	☐	☐
P2	**Batteries**			
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)	☒	☐	☐
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	☒	☐	☐
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be “easily removable”. (See legal reference)	☒	☐	☐
P3	**Safety, EMC connection to the telephone network and labeling**			
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	☒	☐	☐
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	☒	☐	☐
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).	☒	☐	☐
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	☒	☐	☐
P4	**Consumable materials**			
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).	☒	☐	☐
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).	☒	☐	☐
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).	☐	☐	☒
P5	**Product packaging**			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	☒	☐	
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	☒	☐	☐
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	☒	☐	☐

Note B^1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

Model number *	123		
Issue date *	xx.xx.2014	Logo	LOGO

15.3	Product environmental attributes - Market requirements - Environmental conscious design	Requirement met		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P6	**Treatment information**			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	☒	☐	☐
P7	**Design** **Disassembly, recycling**			
P7.1*	Parts that have to be treated separately are easily separable	☒	☐	☐
P7.2*	Plastic materials in covers/housing have no surface coating.	☒	☐	☐
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.	☒	☐	☐
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	☒	☐	☐
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).	☒	☐	☐
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	☒	☐	☐
P7.8*	Upgrading can be done using commonly available tools	☒	☐	☐
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: Material type: ***ABS*** Material type: ***PC+ABS*** Material type:			
P7.12	Electrical cable insulation materials of power cables are PVC free.	☐	☒	☐
P7.13	Electrical cable insulation materials of signal cables are PVC free	☐	☒	☐
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	☒	☐	☐
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B[2])	☐	☒	☐
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: ***PC+ABS FR(40)***	☒	☐	☐
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) ☐, TBBPA (reactive) ☐, Other; chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4:	☐ ☐	☐ ☐	☐ ☐
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%: Comment: No legal limits exist, this is a market requirement. 1. Chemical name: , CAS #: 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:	☐ ☐	☐ ☐	☐ ☐
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	☒	☐	☐
P7.20	Of total plastic parts' weight >25g, recycled material content is ***5,9*** **%**.			
P7.21	Of total plastic parts' weight >25g, biobased material content is **%**.			
P7.22	Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg	☒	☐	☐
P8	**Batteries**			
P8.1*	Battery chemical composition: ***LiMnO2***			☐
P8.2	Batteries meet the requirements of the following voluntary program/s:			☒

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

Model number *	***123***		
Issue date *	***xx.xx.2014***	**Logo**	LOGO

15.4 Product environmental attributes - Market requirements (continued)					Requirement met
Item					Yes No n.a.
P9	**Energy consumption**				
9.1	For the product the following power levels or energy consumptions are reported:				
Energy mode *	Power level at **100** V AC	Power level at **115** V AC	Power level at **230** V AC	Reference / Standard for energy modes and test method *	☐
Warm-up max.	W	W	***1250*** W	***RAL-UZ171***	☐
continuous printing	W	W	***582*** W	***RAL-UZ171***	☐
Ready	W	W	***135,2*** W	***RAL-UZ171***	☐
Energy Save	W	W	***18,6*** W	***RAL-UZ171***	☐
Sleep	W	W	***0.88*** W	***RAL-UZ171***	☐
Plug-in off	W	W	***0.03*** W	***RAL-UZ171***	☐
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W		☐
PTEC * Typical Energy Consumption	W	W	W		☐
TEC * Typical Energy Consumption	kWh/week	kWh/week	***2,56*** kWh/week	***ENERGY STAR for Imaging Equipment, vers. 2.0***	☐
ETEC * Annual Energy Consumption	kWh/year	kWh/year	kWh/year		☐
Display resolution* : Megapixels					☐
Print Speed * : ***50*** Images per minute				***A4-size***	☐
Default time to enter energy save mode: ***1*** minutes					☐
P9.2*	Information about the energy save function is provided with the product.				☒ ☐ ☐
P9.3*	The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: ***2.0*** Tier: Product category: ***Imaging Equipment*** Others specify: ***RAL-UZ171; Nordic Swan 6.2***				☒ ☐ ☐ ☒ ☐ ☐
P10	**Emissions**				**15.4.1.**
	Noise emission – Declared according to ISO 9296				**15.4.1.**

P10.1	Mode	Mode description	Declared A-weighted sound power level L_{WAd} (B)	Declared A-weighted sound pressure level L_{pAm} (dB)		
				Operator position ☒ Desktop ☐ or Desk side ☐	Bystander positions ☐ (only if product is not operator attended)	
	Idle	* ***Ready***	* ***4,6***	***31,2***		☐
	Operation	* ***Printing (monochrome)***	* ***6,9***	***51,0***		☐
	Other mode					
	Measured according to: ☒ ISO7779 ☐ ECMA-74 ☒ Other ***RAL-UZ171*** (only if not covered by ECMA-74 with L_{pAm} measurement distance m)					
P10.2	The product meets the acoustic noise requirements of the following voluntary program/s: ***RAL-UZ171***					☒ ☐ ☐

Model number *	***123***		
Issue date *	***xx.xx.2014***	**Logo**	LOGO

15.5 Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
	Chemical emissions from printing products			
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard ☐, other specify: ***RAL-UZ171***	☒	☐	☐
P10.4	Typical emission rate (print phase) is (mg/h): Dust ***<LOD*** Ozone ***<LOD*** Styrene ***<LOD*** Benzene ***<LOD*** TVOC ***1,23***			☐
P10.5	Chemical emission requirements of the following voluntary program/s ***RAL-UZ171*** are met for : Dust ☒ Ozone ☒ Styrene ☒ Benzene ☒ TVOC ☒	☒	☐	☐
	Electromagnetic emissions			
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:	☐	☐	☒
P11	**Consumable materials for printing products**			
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).	☒	☐	☐
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	☒	☐	☐
P11.3*	2-sided (duplex) printing/copying is an integrated product function.	☒	☐	☐
P12	**Ergonomics for computing products**			
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	☐	☐	☒
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	☐	☐	☒
P13	**Packaging and documentation**			
P13.1*	Product packaging material type(s): ***Cardboard/Paper*** weight (kg): ***15,56*** Product packaging material type(s): ***EPE/EPS*** weight (kg): ***1,25*** Product packaging material type(s): ***Plastics*** weight (kg): ***0,28***			
P13.2*	Product plastic packaging is free from PVC.	☒	☐	☐
P13.3*	Specify media for user and product documentation (tick box): Electronic ☒, Paper ☒, Other ☐			☐
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: ***0*** **%**			☐
Rev. P13.5	User and product documentation do not contain chlorine bleached paper	☒	☐	☐
P14	**Additional information (See Note B[4])**			
P10.4	***LOD = Limit of Detection***			

Note B[4]: *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 B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2,3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
“REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19