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BUSINESS PLAN FOR ISO/IEC JTC 1/SC 28 OFFICE EQUIPMENT

PERIOD COVERING: 2012 – 2013

SUBMITTED BY: SC28 Chairman and Secretary

1.0 MANAGEMENT SUMMARY

1.1 CHAIRMAN'S REMARKS

SC28 is one of the few product or hardware oriented subcommittees in the JTC 1 community. As such fundamental output of this group has been standards on product specification descriptors, methods for measurement of productivity of hardcopy devices, quality of hardcopy output and yield of consumables (ink and toner cartridges).

WG2 Areas

A series of projects on the method for the determination of ink and toner cartridge yield was over leaving a relatively long history of a decade behind. Now a complementary project on printer cartridges characterization going on in the past several years is also ending leaving final work before the publication. Under the circumstances it is a challenge for WG2 to define new work items in this plan period except for usual maintenance work.

WG3 Areas

Among standards on productivity measurement (printing, copying and scanning throughput) coming under the responsibility of WG3 major projects on printing and copying productivity have been over. Immediate remaining projects are Method for Measuring First Page Out Time for Digital Printing (WD) and Method for Measuring Scanning Productivity of Digital Multifunctional Devices (NP). The latter will be worked out in a way to satisfy requirements of ISO/TC171/SC1 as well as of SC28.

WG4 Areas

Two Technical Specifications originally aimed at International Standard but downgraded to Technical Specification were published. They are Measurement of image quality attributes (TS 24790) and Measurement of printer resolutions (TS 29112). Upgrade to IS in the near future to realize the original intention is under consideration.

WG5 Areas

The first project of WG5 published is ISO/IEC TR 29186 Test Method of Colour Gamut Mapping Algorithm for Office Colour Equipment. Ongoing second project is ISO/IEC NP 17823 Colour Terminology for Office Colour Equipment. This NP is expected to help reduce possible confusion in communications between people engaged in office colour applications..

SC28 General

It should be noted that SC28 has inventory of both environmental (ISO/IEC 24700 and ISO/IEC 28360) and accessibility related standards (ISO/IEC 10779). SC28 resolved to revise ISO/IEC 10779 "Office equipment

accessibility guidelines for elderly persons and persons with disabilities” to align with Section 508 of the US when its update is completed

Revision of specification descriptors standards (ISO/IEC 21117 on copying machines, ISO/IEC 21118 on data projector and ISO/IEC11160-2 on printers) are completed or waiting for finalization

As energy efficiency is one of JTC 1 focus themes SC28 should look into this area in collaboration with IEC/TC100 and other related groups beyond passive dependency on Energy Star Program.

AWG(WG1) empowered to maintain the SC28 Road Map, consolidate SC28 terminology in collaboration with ITVMT and to make recommendations on other cross-SC28 strategic issues is expected to lead SC28 in strategically viable directions.

1.2 JTC 1/SC 28 STATEMENT OF SCOPE

Title: Office Equipment

Scope:

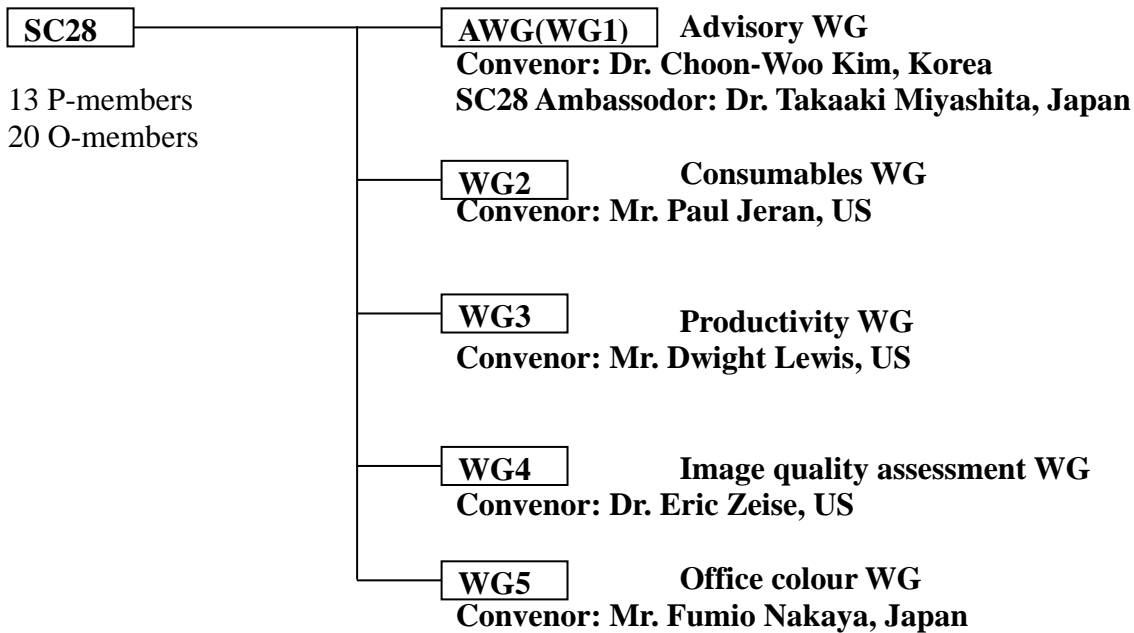
Standardization of basic characteristics, test methods and other related items, excluding such interfaces as user system interfaces, communication interfaces and protocols, of office equipment and products such as Printers, Copying Equipments, Digital scanners, Facsimile equipment and systems composed of combinations of office equipment.

Formation of SC28

SC28 is organized as follows as of August , 2012.

Chair: Mr. Akira Saito, Japan

Secretary: Mr. Moto Sugiyama, Japan



1.3 PROJECT REPORT

1.3.1 Ongoing projects of SC28

Project ref	Project editor/ Co-editor	Project title		Reg. date	Stage date	Target date
ISO/IEC DIS 29142-1 (id45165)	Ms. Ann McCarthy Dr.Takaaki Miyashita (*)	Cartridge Characterization Standard	Print Cartridge Characterization -- Part 1: General : terms, symbols, notations and cartridge characterization framework	2007-12-26	2012-07-06	IS 2014-06-26
ISO/IEC DIS 29142-2 (id51950)	Ms. Ann McCarthy Mr. Fumio Nakaya (*)		Print Cartridge Characterization -- Part 2: Cartridge Characterization Data Reporting	2008-06-06	2012-07-06	IS 2014-12-06
ISO/IEC FCD 29142-3 (id51951)	Mr. Paul Jeran Mr. Peter Hortig (*) Ms. Makiko Hirai (*)		Print Cartridge Characterization -- Part 3: Environment	2008-06-06	2011-05-25	IS 2014-12-06
ISO/IEC CD 11160-2 (**) (id61520)	Mr. Takashi Ito	Minimum information to be included in specification sheets – Printers – Part 2:Class 3 and Class 4 printers		2012-02-08	2012-05-12	IS 2015-02-08
ISO/IEC DIS 21118(**) (id57467)	Mr. Shigekazu Yamagishi Mr. Takashi Ito (*)	Information to be included in specification sheets -- Data projectors		2010-10-05	2012-05-05	IS 2013-10-05
ISO/IEC WD 17629 (id60200)	Mr. Jason Quintana	Method for Measuring First Page Out Time for a Digital Printing Device		2011-11-25	2012-04-15	IS 2014-11-25
ISO/IEC NP 17991 (id61239)	Mr. Takashi Ito	Method for Measuring Scanning Productivity of Digital Multifunctional Devices		2012-04-26	2012-04-26	IS 2015-04-26

ISO/IEC NP 17823 (id60611)	Mr. Hisao Shirasawa Mr. Xiping Zhang (*)	Colour Terminology for Office Colour Equipment	2012-01-13	2012-01-13	IS 2015-01-13
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(*) Assistant editor (**) Revision

1.3.2 (Reference): Inventory of published standards

The following table indicates inventory of standards published by SC28 *in 1995 onward*. As for standards released before 1995 categorized as under the responsibility of SC28, they can be viewed at Catalogue of ISO Livelink.

ISO/IEC Numbers	Titles
TS 24790:2012	Measurement of Image quality attributes for hardcopy output - Monochrome text and graphic images
TS 29112:2012	Test chart and method for measuring printer resolutions of monochrome laser printers
TR 29186:2012	Test Method of Colour Gamut Mapping Algorithm for Office Colour Equipment
24735:2012	Method for Measuring Digital Copying Productivity
21117:2012	Copying machines and Multi-function devices – Information to be included in specification sheets and related test methods
28360:2012	Determination of chemical emission rates from electronic equipment
29102:2011	Method for the determination of ink cartridge photo yield for colour printing with inkjet printers and multi-function devices that contain inkjet printer components
29103:2011	Colour photo test pages for measurement of ink cartridge yield for colour photo printing
29183:2010	Digital Copying Productivity of a Single, One-Sided Original
24735:2009	Method for measuring digital copying productivity
24734:2009 Cor 1:2009	Method for measuring digital printing productivity
10779:2008	Office equipment accessibility guidelines for elderly persons and persons with disabilities
28360:2007	Cor 1:2008
28360:2007	Determination of chemical emission rates from electronic equipment
19799:2007	Method of measuring gloss uniformity on printed pages
24712:2007	Colour test pages for measurement of office equipment consumable yield
24711:2007	Method for the determination of ink cartridge yield for colour ink jet printers and multi-function devices that contain printer components
19798:2007	Method for the determination of toner cartridge yield for colour electrophotographic printers and multi-function devices that contain printer components
18050:2006	Print Quality Attributes for Machine Readable Digital Postage Marks
21117:2005	Copying machines and Multi-function devices -- Information to be included in specification sheets and related test methods
24700:2005	Quality and performance of office equipment that contains reused components
TR 24705: 2005	Machines for colour image reproduction -- Method of specifying image reproduction of colour devices by digital and analog test charts
21118: 2005	Information to be included in specification sheets -- Data projectors
15775:1999	Method of specifying image reproduction of colour copying machines by analog test charts --

Amd 1: 2005	Realization and application
TR 19797: 2004	Device output of 16 colour scales, output linearization method (LM) and specification of the reproduction properties
19752: 2004	Method for the determination of toner cartridge yield for monochromatic electrophotographic printers and multi-function devices that contain printer components
13660: 2001	Measurement of image quality attributes for hardcopy output -- Binary monochrome text and graphic images
15404: 2000	Minimum information to be included in specification sheets -- Facsimile equipment
14473: 1999	Minimum information to be specified for image scanners
10561: 1999	Printing devices -- Method for measuring throughput -- Class 1 and Class 2 printers
14545: 1998	Method for measuring copying machine productivity
11160-1: 1996	Minimum information to be included in specification sheets -- Printers -- Part 1: Class 1 and Class 2 printers
11160-2: 1996	Minimum information to be included in specification sheets -- Printers -- Part 2: Class 3 and Class 4 printers
11159: 1996	Minimum information to be included in specification sheets -- Copying machines

1.3.3.(Reference): Stage 0 item

The following item is being evaluated as possible project to be added to SC28 program of work.

- Proposal for ISO/IEC 10779:2008 Revision – dependent US section 508 update

Note: Efforts to update road map of SC28 will continue.

1.4 COOPERATION AND COMPETITION

1.4.1 Liaisons-to/from SC28 are as follows.

Liaison Group	Title	Category	Representative from SC28	Representative to SC28
Ecma International TC38	Product-related environmental attributes	A	Mr. Paul Menard	Mr. Onno Elzinga
Ecma International TC46	XPS Document Standard	A	Ms. Ann McCarthy	Ms. Ann McCarthy
CIE Division 1	International Commission on Illumination Division 1	A	TBD	Dr. Klaus Richter
CIE Division 8	International Commission on Illumination Division 8	A	Ms. Ann MacCarthy	Dr. Klaus Richter
ICC	International Color Consortium	A	Ms. Ann McCarthy	Ms. Ann McCarthy
TC42	Photography	(Internal)	Mr. Nobuaki Usui (WG18) Mr. Toshihiko Inagaki (WG18) Dr. Eric Zeise (WG18) Ms. Ann McCarthy (WG5)	Dr. Klaus Richter
IEC/TC 100 /TA 2	Audio, video and multimedia systems and equipment	(Internal)	Mr. Fumio Nakaya	Mr. Fumio Nakaya
ISO/TC 130	Graphic technology	(Internal)	Mr. Nobuaki Usui Dr. Eric Zeise	Mr. Andreas Kraushaar
ISO/TC 171/ SC 1	Document management applications	(Internal)	Mr. Nobuaki Usui	Mr. Alan Shipman Mr. Paul Leadbeater

Related SC28 Plenary resolutions

Note 1: SC28 resolved to recommend Mr. Fumio Nakaya to JTC 1 as a JTC 1 Representative to ISO SCIT (Steering Committee on Image Technology) for 2012 – 2013 following 2011 – 2012.

Note 2: SC28 instructs SC28 terminology coordinator (Dr. Takaaki Miyashita) to review technical terms used in the manuscript at the CD stage of development to verify consistency with the existing data base and work with project editors to harmonize possible discrepancies.

Note 3: SC28 resolves that AWG/PWG6 led by Mr. Nobuaki Usui shall continue their activities until the next Plenary meeting. SC28 resolves to accept AWG/PWG6 proposal to update the NWIP titled as “Minimum requirements on digitization with evidence for the same information as originals in simple scanners and multifunction peripherals”

1.4.2 Potential areas of cooperation or competition

- SC28/WG3 to continue dialog with ISO/TC171/SC1 on the subject of standardization of performance and productivity of scanning devices, via existing liaison officer.
- SC28 to participate in a Joint Working Group, led by ISO/TC 130, to develop ISO 15311, a standard or family of standards for measurements of print image quality attributes of mutual interest to SC28/WG4 and TC130/WG3.

2.0 PERIODIC REVIEW

2.1 MARKET REQUIREMENTS

Major types of equipment in the current market subject to SC28 undertaking are classified as follows.

- Copying machines
- Printers
 - Inkjet printers - colour
 - Laser (electrophotographic) printers - monochrome and colour
- Image scanners
- Facsimiles
- Data projectors
- MFP (Multi-function Peripherals: scanner + copier + printer + facsimile + email)

General trend of the market for those equipments learned from various free and paid reports is observed as follows.

- Inkjet printer takes up roughly 80% in unit and 50% in sales in terms of stock. However, growth rate in flows of colour laser printer is considerably faster than inkjet printer in single function machines and multi-function peripherals combined.
- Sales of toner and ink cartridges for copying machines and printers continues to grow robustly.
- Shift from single inkjet printers and single laser printers to inkjet based or laser based multi-function peripherals is noticeable.
- Environment conscious and energy efficient design of office equipment is getting increasingly important on a global scale.
- Accessibility is more than a nice-to-have feature. It is getting increasingly important for countries whose society becomes aged.
- Secure print function is getting important to protect from information leakage.

Standards required by the market are those to facilitate or enable:

- Comparison of functional specifications (descriptors) in product catalogues (Continuously being updated)
- Measurement of yield of ink and toner cartridges of printers (Major work done)
- Comparison of characteristics of toner and ink cartridges (Ongoing)
- Evaluation and comparison of printed output image quality and resolutions (Major work done as Technical Specification. Upgrade to IS in the near future is under consideration)
- Measurement of productivity and performance of copying machines, printers and image scanners (Major work done on copying machines and printers. New work started on image scanners)
- Displaying and printing images in consistent colours across different hardware (Potential work item)
- Printing in a consistent manner across different file formats (Potential work item)
- Design of equipment in an environment conscience manner (Depends on Energy Star and related international program for the time being)
- Accessibility for disabled and aged persons (To reflect Section 508 and other international norms)
- Understanding office colour technology and applications without confusion (Colour terminology consolidation ongoing)

2.2 ACHIEVEMENTS

(1) Project progression

Published as IS or TR/TS

- ISO/IEC TS 24790 (id41560)
Measurement of image quality attributes for hardcopy output – Monochrome text and graphic images
- ISO/IEC TS 29112(id45135)
Test chart and method for measuring printer resolutions of monochrome laser printers
- ISO/IEC 28360 (Ed2)(id57953)
Determination of chemical emission rates from electronic equipment
- ISO/IEC TR 29186(id45265)
Test Method of Colour Gamut Mapping Algorithm for Office Colour Equipment
- ISO/IEC 21117(id57897)
Copying machines and Multi-function devices – Information to be included in specification sheets and related test methods
- ISO/IEC 24735(id57857)
Method for Measuring Digital Copying Productivity

DIS Approved

- ISO/IEC 21118(id57467)
Information to be included in specification sheets – Data projectors

Registered as DIS

- ISO/IEC 29142-1(id45165)
Print Cartridge Characterization – Part 1: General: terms, symbols, notations and cartridge characterization framework
- ISO/IEC 29142-2(id51950)
Print Cartridge Characterization – Part 2: Cartridge Characterization Data Reporting

CD Approved

- ISO/IEC 11160-2(id61520)
Minimum information to be included in specification sheets – Printers – Part 2: Class 3 and Class 4 printers

New Project Approved

- ISO/IEC NP 17629(id60200)
Method for Measuring First Page Out Time for a Digital Printing Device

- ISO/IEC NP 17991(id61239)
Method for Measuring Scanning Productivity of Digital Multifunction
- ISO/IEC NP 17823(id60611)
Colour Terminology for Office Colour Equipment

Projects withdrawn

- ISO/IEC 29142-4(id51952)
Cartridge Characterization – Part 4: Ink Cartridge Attributes
- ISO/IEC 29142-5(id51953)
Cartridge Characterization – Part 5: Toner Cartridge Attributes

(2) Other achievements

None in particular

2.3 RESOURCES

It is an inherent and chronic problem with SC28 that national bodies which can afford to provide experts in SC28 technical work are generally limited to few countries with office equipment industries.

2.4 ENVIRONMENTAL ISSUES

None in particular

2.5 PARTICIPATION METRICS

The following tables present ratios of P-members’ attendance to plenary meetings and participation in official letter ballots.

Plenary attendance For the past five Plenary meetings
Attendance ratio: # Participated P-members/# all P-members

Plenary meetings	June 2008 Boeblingen	June 2009 Busan	June 2010 Rochester	June 2011 Hangzhou	June 2012 London
Attendance ratio	8/14	7/14	7/13	5/13	5/13

Voting participation For the previous plan period June 2011 - May 2012

Month	June 2011	April 2012	April 2012	May 2012
Vote on	FCD	CD	CD	CD
# of P-members that voted	11	10	10	13
% against all P-members	85%	77%	77%	100%

3.0 THE FOCUS OF THE NEXT WORK PERIOD

3.1 DELIVERABLES

(Business as usual)

3.2 STRATEGIES

- Align SC28 work program with JTC 1 strategic directions where applicable (e.g. energy efficiency etc.)
- AWG to prompt SC28 National Bodies to generate new projects by making the most of the road map to which AWG has devoted much of its energies.

3.3 RISKS

Risks, if there is any, are considered to come from inaction on our part. We may lose our grips on some important requirements in office equipment industry if we do not proactively define our work. This is because in many of our fronts are crowded with groups in ISO, IEC and consortia actively engaged in such areas as photography, graphic technology and document management. They become competitive at times while they are basically complementary to SC28.

3.4 OPPORTUNITIES

Opportunity identification will be a crucial task of SC28 throughout the plan period (see 3.2 Strategies above).

3.5 WORK PROGRAM PRIORITIES

- Keep the 3-part standard ISO/IEC 29142 Print Cartridge Characterization on track