

Replaces:

**ISO/IEC JTC 1
Information Technology**

Document Type: business plan

Document Title: SC 28 Business Plan for period June 2008 to May 2009

Document Source: SC 28 Secretariat

Document Status: This document is circulated to National Bodies for review and consideration at the November 2008 JTC 1 Plenary meeting in Nara.

Action ID: ACT

Due Date:

No. of Pages: 12

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

PERIOD COVERED: June 2008 – May 2009

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).

One of the focus areas of SC28 in this plan period and beyond will be a multi-part standard on printer cartridges characterization which aroused growing enthusiasm of SC28 members. The reason for the project being popular is because the standards will satisfy growing market demands of the office equipment OEM manufacturers, refill industries, and consumers.

It should be noted that SC28 has now inventory of both environmental and accessibility related standards as a result of work done in the past few years..

Projects on productivity measurement of digital printers and copying machines whose timelines were extended for one year finally reached FDIS stage.

SC28 considers that there is room for expansion of office equipment standardization frontier in the following two areas, one being (a) management of color consistency between office equipment and the other being (b) compatibility of file formats and metadata tags in office printing applications. In order to squarely address these two areas SC28 established PWG5 for (a) and PWG6 for (b) each as an Other Working Group (as defined in 2.6.2 of JTC 1 Directives) under AWG. The two PWGs are expected to grow out into a full-fledged WG upon creation of a program of work. To be successful they will need extensive collaborations with related internal and external liaison organizations.

SC28 has 14 P members and 15 O members as of September 2008. It should be noted that an NP will pass in SC28 if 4 instead of 5 P members commit their participation in the project because JTC 1 decided to change the threshold to pass an NP as follows.

“For SCs with 16 P-members or fewer, at least four instead of five P-members committed to active participation are needed.”

1.2 JTC 1/SC 28 STATEMENT OF SCOPE

Title: Office Equipment

Scope:

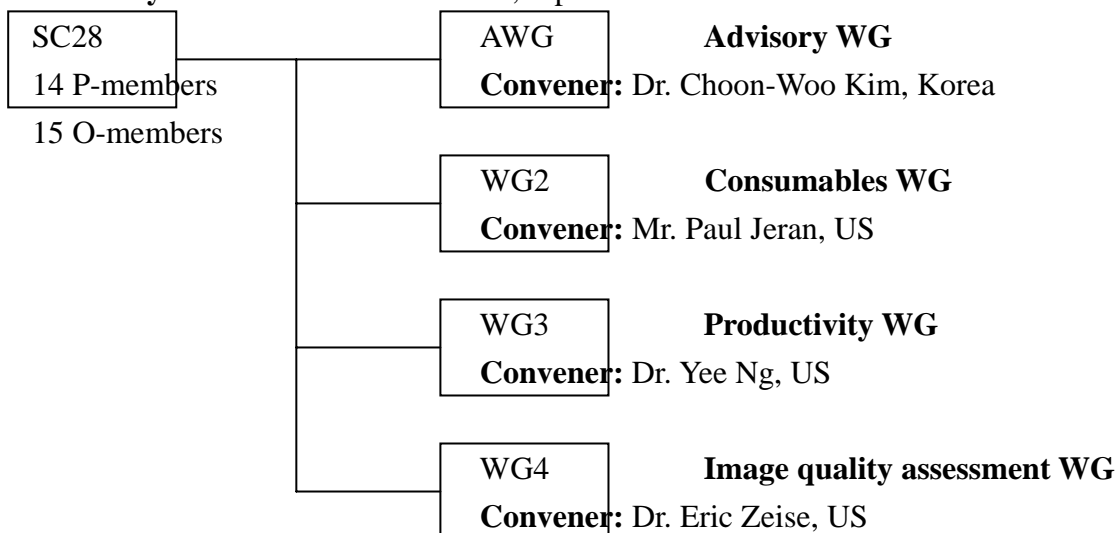
Standardization of basic characteristics, test methods and other related items, excluding such interfaces as user system interfaces, communication interfaces and protocols, of office equipment and products such as Printers, Copying Equipments, Digital scanners, Facsimile equipment and systems composed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

Formation of SC28

SC28 is organized as follows as of July 1, 2008.

Chair: Mr. Akira Saito, Japan

Secretary: Mr. Kazumasa Kumakura, Japan



Note:

Under AWG the following two OWGs (“Other Working Groups” to exist on an interim basis) were established in May 2008 Germany Plenary which are responsible for seeking seeds for NPs in respective areas and are to grow into an ordinary WG (WG5 and WG6 respectively) upon approval of a work program following creation of NP.

- PWG5 – Office Applications Working Group
- PWG6 - Office Colour Working Group

1.3 PROJECT REPORT

1.3.1 Ongoing projects of SC28.

Project ref.	Project title		Reg. Date	Stage date	Target date
ISO/IEC FCD 24734 (id 38844)	Method for measuring digital printer productivity		2005-08-23	2008-07-22	IS 2009-08-23 (12 months extended)
ISO/IEC FCD 24735 (id 38845)	Method for measuring digital copying machine productivity		2005-08-23	2007-07-22	IS 2009-08-23 (12 months extended)
ISO/IEC NP 24790 (id 41560)	Revision of ISO/IEC 13660: Measurement of Image quality attributes for hardcopy output - Binary monochrome text and graphic images		2008-04-16	2008-04-16	IS 2011-05-11 (12 months extended)
ISO/IEC NP29102 (id 4125)	Method for the determination of ink cartridge yield for colour photo printing with inkjet printers and multi-function devices that contain inkjet printer components		2007-05-11	2008-03-06	IS 2011-05-11 (12 months extended)
ISO/IEC NP29103 (id 45126)	Colour photo test pages for measurement of ink cartridge yield for colour photo printing.		2007-05-11	2007-05-11	IS 2011-05-11
ISO/IEC NP 29112 (id 45135)	Test chart and method for measuring printer resolutions of monochrome laser printers		2006-12-26	2006-12-26	IS 2010-12-26 (12 months extended)
ISO/IEC NP 29142-1 (id 45165)	Cartridge Characterization Standard	Part 1: General : terms, symbols and notations	2007-12-26	2007-12-26	IS 2011-12-26
ISO/IEC NP 29142-2 (id 51950)		Part 2: Labeling	2008-06-06	2008-06-06	IS 2012-06-06
ISO/IEC NP 29142-3 (id 51951)		Part 3: Environment	2008-06-06	2008-06-06	IS 2012-06-06
ISO/IEC NP 29142-4 (id 51952)		Part 4: Ink cartridge attributes	2008-06-06	2008-06-06	IS 2012-06-06
ISO/IEC NP 29142-5 (id 51953)		Part 5: Toner cartridge attributes	2008-06-06	2008-06-06	IS 2012-06-06

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 classified as those under the responsibility of SC28, they can be viewed at Catalogue of ISO Livelink.

ISO/IEC Numbers	Titles
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	Color test pages for measurement of office equipment consumable yield
24711::2007	Method for the determination of ink cartridge yield for color ink jet printers and multi-function devices that contain printer components
19798:2007	Method for the determination of toner cartridge yield for color 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
TR24705: 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 Amd 1: 2005	Method of specifying image reproduction of colour copying machines by analog test charts -- Realisation and application
TR19797: 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 items

The following item is likely to be added to SC28 program of work

- Digital Copying Productivity of a Single, One Sided Original

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
TC42	Photography	(Internal)	WG18 - Mr. Nobuaki Usui Mr. Toshihiko Inagaki Dr. Eric Zeise WG15 - Ms. Ann McCarthy	Dr. Klaus Richter
CIE Division 1 TC1-57	International Commission on Illumination TC1-57	A	Dr. Klaus Richter	Dr. Klaus Richter
CIE Division 8	International Commission on Illumination Division 8	A	Dr. Klaus Richter Ms. Ann MacCarthy	Dr. Klaus Richter
IEC/TC 100	Audio, video and multimedia systems and equipment	(Internal)	Mr. Fumio Nakaya	Dr. Hiroaki Ikeda
ISO/TC 130	Graphic technology	(Internal)	Mr. Nobuaki Usui Dr. Yee Ng	Mr. Friedrich Dolezalek
ISO/TC 171	Document management applications	(Internal)	Mr. Nobuaki Usui	Mr. Alan Shipman Mr. Paul Leadbeater
Ecma International TC38	Product-related environmental attributes	A	Mr. Paul Menard	Mr. Onno Elizinga
Ecma International TC46	XPS technology	A	Ms. Ann McCarthy	Ms. Ann McCarthy

1.4.2 Potential areas of cooperation or competition

- Collaboration with CIE Division 8 is imperative for SC28 to be able to generate viable NPs on a test method for evaluation of color gamut mapping algorithm specific to office printers and applications for which AWG/PWG5 is responsible.
- Cooperation with ISO/TC42, TC130 and TC171 is imperative for SC28 to be able to generate viable NPs in the area of file formats and metadata tags in office printing applications for which AWG/PWG6 is responsible.

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

General trend of the market for these equipment learned from various free and paid reports is as follows.

- Inkjet printer takes up roughly 80% in unit and 50% in sales in terms of stock. However, growth rate in flows of color laser printer is considerably faster than inkjet printer in single function machines and multi-function machines 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 for the low-carbon society.
- Accessibility is more than a nice-to-have feature. It is getting increasingly important as the society becomes aged.

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

- Comparison of functional specifications (descriptors) in product catalogues
- Measurement of yield of ink and toner cartridges of printers
- Comparison of characteristics of toner and ink cartridges
- Evaluation and comparison of printed output image quality attributes
- Measurement of productivity and performance of copying machines and printers
- Displaying and printing images in consistent colors across different hardware
- Printing in a consistent manner across different file formats
- Design of equipment in an environment conscience manner
- Accessibility for disabled and aged persons

2.2 ACHIEVEMENTS

(1) Project progression

Published as IS or TR

- ISO/IEC 10779:2008 Accessibility guidelines for elderly persons and persons with disabilities
- ISO/IEC 28360:2007 Determination of chemical emission rates from electronic equipment
- ISO/IEC 28360:2007/Cor 1:2008

Editorial revisions applied

- ISO/IEC 19798:2007 (was 19798:2006) Method for the determination of toner cartridge yield for color electrophotographic printers and multi-function devices that contain printer components
- ISO/IEC 24711:2007 (was 24711:2006) Method for the determination of ink cartridge yield for color inkjet printers and multi-function devices that contain printer components
- ISO/IEC 24712:2007 (was 24712:2006) Color test pages for measurement of office equipment consumable yield

From FCD to FDIS

- ISO/IEC FCD 24734 (id 38844) Method for measuring digital printer productivity
- ISO/IEC FCD 24735 (id 38845) Method for measuring digital copying machine productivity

Registered as CD

- ISO/IEC 24790 Measurement of image quality attributes for hardcopy output - Monochrome text and graphic images

(2) Other achievements

- Contributed an article titled “Supply standards: Past and Future” to ISO Focus magazine Volume 5, No.1, January 2008
- Renovated the SC28 Website on Livelink per Resolution 22 of JTC 1 2007 Australia Plenary
- Helped ISO C/S edit July 22, 2008 press release article on ISO/IEC 10779 Office equipment accessibility guidelines for elderly persons and persons with disabilities

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. However, SC28 with 14 P members can enjoy a recent JTC 1 decision to change its Directives regarding the NP threshold lowered to “4 NBs” from “5NBs” for SCs with 16 P members or less.

2.4 ENVIRONMENTAL ISSUES

Recognizing that SC28 should squarely address environment issues relating to office equipment, SC28 has published the following two standards.

- ISO/IEC 24700:2005 Quality and performance of office equipment that contains reused components
- ISO/IEC 28360:2007 Determination of chemical emission rates from electronic equipment

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	May 2004 Nuremberg	Sept. 2005 Beijing	May 2006 Lexington	May 2007 Matsumoto	June 2008 Boeblingen
Attendance ratio	7/14	7/15	7/11	7/12	8/14

Voting participation For the previous plan period June 2007 - May 2008

Month	Dec 2007	Jan 2008	Jan 2008
Vote on	NP	FCD	FCD
# of P-members that voted	12	11	11
% against all P-members	85%	78%	78%

3.0 THE FOCUS OF THE NEXT WORK PERIOD (June 2008 – May 2009)

3.1 DELIVERABLES

(Business as usual)

3.1 STRATEGIES

- Strive to keep additionally extended timelines for 29102, 29103, 24790 and 29112
- PWG5 and PWG6 to make maximum efforts to come up with viable NPs by the next SC28 Plenary.
- Promote progression of 29142 multi-part Standard on Cartridge Characterization with careful but determined coordination between editors of individual parts.

3.1.1 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.

3.2.2 OPPORTUNITIES

Opportunity identification will be a crucial task of SC28 throughout the plan period (see bullet 2 of 3.1 Strategies above).

3.3 WORK PROGRAM PRIORITIES

SC28's priority is on four projects whose timelines are additionally extended for one year (see bullet 1 of 3.1 Strategies above). No less important is 29142 multi-part Standard on Cartridge Characterization as impact of standardization is direct and visible.