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Office equipment
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JTC 1/SC 28 DASHBOARD 2016

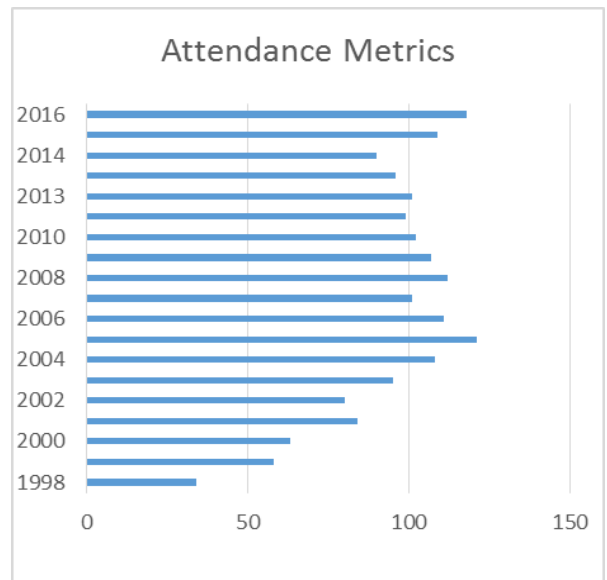
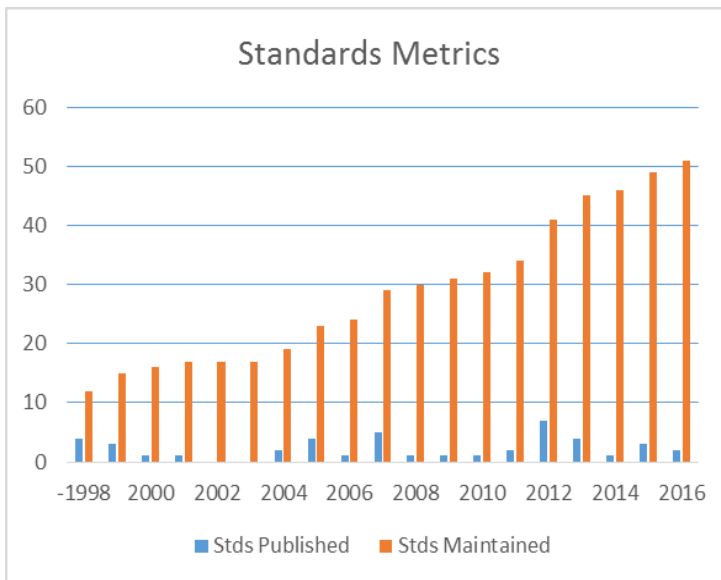
(Sep. 2015 - Aug. 2016)

Performance Indicators

Systematic Reviews

Year (Sep. – Aug.)	Total Closed	Closed On time	% on time	Number Published	Avg time to Publish	# within timeframe	% within timeframe
2015	1	1	100%	3	24.67	2	66%
2016	2	2	100%	2	35.50	3	100%

Standards



New & Current Work Items

- Continued expansion of measurement methods for consumable yield and productivity
- Extended image quality assessment to support print permanence and durability
- Started 3D printers/scanners work to monitor developments in the office/home space to identify areas for potential development to address customer needs
- Started to investigate “IoT use case” and “IoT related standardization activities” in the office/home environment with aligning JTC 1 strategy

Work Group Studies

- WG 2: Consumables
Toner/Ink yield measurement methods for printers and MFDs
- WG 3: Productivity
Productivity measurement methods for printers, MFDs and scanners
- WG 4: Image quality assessment
Measurement of image quality attributes for hard copy
- WG 5: Office colour
Colour terminology and viewing environment for office colour equipment

BUSINESS PLAN FOR JTC 1/SC 28

Office Equipment

PERIOD COVERED: September 2015 – August 2016

1.0 Executive Summary

SC 28 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). SC 28 will continue the expansion of measurement methods for consumables and productivity. SC 28 will also extend the image quality assessment to support print permanence and durability.

In 2015, due to the changing nature of market needs for office equipment and related technologies with increasing usage of 3D technology in the office environments, SC 28 enlarged its scope with including 3D Printers/Scanners. SC 28 will continue to monitor developments for 3D printers/scanners in the office/home space to identify areas for potential development to address customer needs.

Not only 3D area, SC 28 starts to align its work program for IoT and accessibility with JTC 1 strategic directions where applicable.

2.0 CHAIRMAN'S REMARKS

2.1 Market Requirements, Innovation

Major types of equipment in the current market subject to SC 28 undertaking are classified as follows.

- Copying machines
- Printers
- Inkjet printers – monochrome and colour
- Laser (electrophotographic) printers - monochrome and colour
- Image scanners
- Facsimiles
- Data projectors
- MFD (Multi-function Devices: machines which perform two or more of the functions of printing, copying or facsimile transmission)
- 3D printers/scanners in the office and home level environments

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

- Total sales number of Inkjet and laser printers in 2016 will remain almost the same level in 2015.
- Sales of high-speed Inkjet printers and large ink-tank Inkjet printers are increasing in the office machine market.
- Many manufacturers offer Efficiency/Cost down services using MPS (Managed Print Service).
- Many manufacturers try to enlarge the office machine market by developing Solution Sales and Peripheral Business such as service/consumable.
- Many manufacturers promote the digital printing area by introducing entry model (Light

Production model) in the market.

- A surge of 3D printing and scanning applications has intruded into office environment such as architectural, industrial and art design offices where more affordable desktop type 3D devices are preferred to industrial type ones.

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. NWIP for monochrome inkjet yield standard will start soon.)
- Evaluation and comparison of printed output image quality and resolutions
- Measurement of productivity and performance of copying machines, printers and image scanners (Major work done on copying machines, printers and scanners. Existing standards are under consideration for revision.)
- Studying user needs for global device profile sharing platform (Potential work item)
- Printing in a consistent manner across different file formats (Potential work item)
- Accessibility for disabled and aged persons

2.2 Accomplishments

The overall progress of SC 28 and the Working Groups can be reviewed in individual Work Group sections within this report.

2.3 Resources

SC 28 consists of eleven P-members and twenty O-members countries. It is an inherent and chronic problem with SC 28 that national bodies which can afford to provide experts in SC28 technical work are generally limited to few countries with office equipment industries. Even though the office equipment industries are thought to be matured, there are still enough work for developing standards in all WGs with keeping the members active.

2.4 Competition and Cooperation

SC 28/WG 4 continues collaboration with ISO/TC 130 in the frame or JWG 14 on image quality assessment for commercial printing. Furthermore SC 28/WG 4 recommends collaboration on print permanence and durability with TC 42 and TC 130 in the formation of JWG 27 between TC 42/WG 5 and TC 130/JWG 14 (which in turn is a collaboration between SC 28/WG 4 and TC 130/WG 3). SC 28/WG4 will also extend the liaisonship with ISO/TC 42 with the inclusion of WG 3.

SC 28/Ad-hoc on Accessibility will closely watch activities of JTC 1/SWG on Accessibility.

SC 28, for 3D printers/scanners, monitors the work in ISO/TC 261 and expects a liaison with them in future as necessary to align standardization efforts.

3.0 Working Groups

3.1 WG 2 - Consumables

3.1.1 WG 2 Accomplishments

ISO/IEC 24711 (Method for the determination of ink cartridge yield for colour inkjet printers and multi-function devices that contain printer components) was published in November 2015. ISO/IEC DIS 19752

(toner cartridge yield for monochrome laser printers and MFDs) and ISO/IEC DIS 19798 (toner cartridge yield for colour laser printers and MFDs) were approved in January 2016.

3.1.2 WG 2 Deliverables

WG 2 investigates and prepares NWIP for ink cartridge yield for monochrome Ink Jet printers. WG 2 also starts to investigate a NWIP for measurement of battery yield for battery powered printers.

3.1.3 WG 2 Strategies/Risks/Opportunities/lessons learned

None

3.2 WG 3 – Productivity

3.2.1 WG 3 Accomplishments

None

3.2.2 WG 3 Deliverables

WG 3 starts to develop a Technical Report on required aspects of productivity standards and continues to investigate the following revisions for each productivity standards:

- Revision of 17991 (Method for Measuring Scanning Productivity of Digital Multifunctional Devices) to include stand-alone scanners in the scope and test method
- Revision of 29183 (Method for measuring digital copying productivity for a single one-sided original) to add optional sleep and Power Off FCOT tests, a Ready State definition, a job to job delay time procedure to the test method requirements, and include the previous US corrigendum proposal to clarify the use of ADF
- Revision of 24734 (Method for measuring digital printing productivity) and 24735 (Method for measuring digital copying productivity) to add a Ready State definition and a job to job delay time procedure to the test method requirements
- Revision of ISO/IEC 17629 (First Print Out Time)

3.2.3 WG 3 Strategies/Risks/Opportunities/lessons learned

None

3.3 WG 4 – Image quality assessment

3.3.1 WG 4 Achievements

The conversion work from ISO/IEC TS 24790 (Measurement of image quality attributes for hardcopy output - Monochrome text and graphic images) to an IS was started with a DIS ballot in November 2015. ISO/IEC DIS 24790 was approved in February 2016. WG 4 started to collaborate on the development of standards on print permanence and durability with TC 42 and TC 130 in the formation of JWG 27 among TC 42 WG 5 and TC 130 JWG 14.

3.3.2 WG 4 Deliverables

The conversion work from ISO/IEC TS 29112 (Test charts and methods for measuring printer resolutions of monochrome laser printers) to an IS will be started with a CD ballot. WG 4 starts to investigate the following 4 future work; 'Scanner conformance and calibration', 'Colour graininess measurement method (Making use of ISO 24790 methods for monochrome)', 'Print quality measurement methods for duplex prints: Part 1 - Image quality measurements' and 'Print quality measurement methods for duplex prints:

Part 2 - Physical quality measurements’.

3.3.3 WG 4 Strategies/Risks/Opportunities/lessons learned

None

3.4 WG 5 – Office colour

3.4.1 WG 5 Achievements

Non mandatory CIB for TR-NWIP - Viewing environment guideline for office equipment - was balloted in December 2015 and approved in March 2016. This new project was registered as ISO/IEC NP TR 21565.

3.4.2 WG 5 Deliverables

WG 5 continues to investigate a Study Report on ‘Automated Office Colour Management’ and ‘Office Colour Ontologies’.

3.4.3 WG 5 Strategies/Risks/Opportunities/lessons learned

None

3.5 Others (Ad-hoc and AG)

3.5.1 Achievements

Ad-hoc reported the comparison study results of ISO/IEC 10779:2008 (Office equipment accessibility guidelines for elderly persons and persons with disabilities), US Sec.508 NPRM and EN 301 549.

AG reported and summarized all Liaison Reports from SC 28 and results of discussion on 3D printing, JTC 1/WG 10 (IoT) and Collaboration with the related standardization committees.

3.5.2 Deliverables

Ad hoc continues to study the work of revision of ISO/IEC 10779:2008 and SC 28 considered it as a possible project and extended Ad-hoc work for an additional year until 2017. A main driver for the revision is harmonization with US section 508 update.

SC 28 recommends that the AG will review the SC 28 roadmap at the next AG meeting.

3.5.3 Strategies/Risks/Opportunities/lessons learned

Ad-hoc on Accessibility will watch closely the activities of JTC 1/SWG on Accessibility.

In an effort to cover the scope area of SC 28, AG was requested to prompt SC 28 National Bodies to generate new projects by making the most of the road map to which AG has devoted much of its energies.