

ISO/IEC JTC 1/SC 23 N 1392

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ISO/IEC JTC 1/SC 23
Digital Storage Media for information interchange
Secretariat: [Japan \(JISC\)](#)

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**Report of the 12th IO/IEC JTC 1/SC 23 Plenary Meeting,
2005-12-01, Kyoto, JAPAN**

1. Opening of the Meeting

Dr. Yoshinobu Mitsuhashi, Chairman of SC 23, opened the meeting at 9:30. He thanked Ecma TC 44 for holding its meeting collocated with SC 23. He also thanked the national body of Japan for hosting this meeting.

Dr. Kunimaro Tanaka, Chairman of the Japanese committee for SC 23, welcomed the participants.

2. Roll Call of Delegates

The meeting had the following 38 participants:

Japan (13), Republic of Korea (2), Switzerland (1), USA (3), Ecma (10), Experts for presentations (6), Guests (2), Chairman, and Secretary.

The attendance list is attached to this report.

3. Adoption of Agenda

The final draft agenda in Document N 1378 was adopted by adding the Korean national body activity report (SC 23 N 1379).

4. Appointment of Drafting Committee

Mr. J van den Beld, Mr. Mike Deese, Dr. Mitsuru Irie and Ms. Toshiko Kimura were appointed as drafting committee members,

5. Results of the 11th Plenary Meeting

DOCUMENT: N 1218, N 1219

There were no comments on the results of the last SC 23 plenary meeting held in 2001.

6. Report of Secretariat

Ms. Toshiko Kimura, SC 23 Secretary, presented Document N 1369.

7. Review of JTC 1 Activities Affecting SC 23

7.1 JTC 1 Plenary Meeting held in Banff, 2005-11-10/16

DOCUMENT: N 1375, N 1376

The chairman reported on the resolutions of the JTC 1 Banff Plenary meeting based on Document N 1375 and Mr. van den Beld who also attended the JTC 1 meeting added his comments. The following resolutions were reviewed.

Resolution 7 – Appointment/Re-appointment of Officers

- Dr. Yoshinobu Mitsuhashi was appointed as SC 23 Chairman (through the 2008 Plenary).

Resolution 13 – Ad Hoc Group on IT Vocabulary

- This ad hoc group is to make the mechanism to update ISO/IEC 2382 by using the database hosted by Canada. JTC 1/SCs are being instructed to nominate a representative to this ad hoc group. The detailed project plan is contained in Document N 1376. SC 23 national bodies in attendance did not have much interest in this project. It was pointed out that unifying definitions of terms would be difficult since JTC 1 has the very broad working area and same terms are often used

with slightly different meaning in different SCs. Mr. van den Beld offered to represent SC 23 at the first ad hoc group meeting to be held in early 2006 in Canada.

Resolution 14 – Alignment of the JTC 1 Directives with the ISO/IEC Directives
Resolution 15 – Establishment of JTC 1 Special Group on the Directives
Resolution 16 – Revision of Annex N to the JTC 1 Directives, Edition 5
Resolution 17 – Revision of Clause 4.6 to the JTC 1 Directives, Edition 5
Resolution 19 – Trial of Enhanced Use of Teleconferencing
Resolution 20 – Items for Consideration by the JTC 1 Special Group on Directives
Resolution 21 – JTC 1 Use of the Patent Statement and Licensing Declaration JTC1 N7991

- JTC 1 resolved to use a common patent declaration form with ISO, IEC and ITU-T. JTC 1 also resolved to make a publicly available patent database.

Resolution 28 - JTC 1 Representative to the ISO Steering Committee on Image Technology

- Mr. van den Beld who was the JTC 1 representative from SC 23 reported that the current discussion of this group has no relation to SC 23, thus, he had withdrawn his position as JTC 1 representative.

Resolution 29 Future Meetings

8. Report and Review of Liaisons

8.1 Ecma International

Ecma proposed the modifications of the title and scope of SC 23 in Document N 1360 with reference to the newly established Ecma TC 44, Holographic Information Storage Systems (HISS). The Ecma standards being developed by TC 44 will be submitted to JTC 1 by fast-track procedure. The modification proposal was accepted.

Mr. van den Beld of Ecma International presented its activity report in Document N 1362. He covered the activities of four Ecma TCs, TC 15, TC 17, TC 31 and TC 44 since the last SC 23 plenary held in 2001.

- TC 17 (Magnetic Tapes and Tape Cartridges) will be disbanded soon since there is no standardization activity anymore.
- TC 15 (Volume and File Structure) is in suspension.
- TC 31 (Optical Disks and Disk Cartridges) has produced 14 standards. All of them have been fast-tracked to JTC 1 and assigned to SC 23 for maintenance. Two projects are in progress and will be fast-tracked to JTC 1. TC 31 may go into a suspension mode after finishing the remaining projects.
- TC 44 (Holographic Information Storage Systems (HISS)) has two ongoing projects and two projects are planned. The first project will be completed in 2006 and will be fast-tracked to JTC 1.

There were some comments and discussion about the cause of disbandment of TC 17, standardization of magnetic media.

Mr. Hideyoshi Horimai, presented "the Role of the HVD Alliance in Setting Information Interchange Standards in Ecma" in Document N1377.

8.2 ISO/TC 42 Photography

Document N 1371 contained the list of the ongoing projects of TC 42. Four projects were relevant to SC 23. Dr. Yoshihiro Okino, liaison officer, was not able to attend any

meeting. Japan reported that it recently submitted its comments on WD 18938 (Imaging Materials -- Optical -- discs - Care and handling practices for extended usage) via the Japanese national committee of ISO/TC 42. Japan commented that the projects are more appropriate to be published as TR rather than IS.

8.3 ISO/TC 171/SC 1 Document Management Applications – Quality

ISO/TC 171/SC 1, ISO/TC 42/WG 5, JTC 1/SC 23 Joint Working Group (JWG)

DOCUMENT: N 1274, N 1315 , N 1331, N 1367

Dr. Tanaka, SC 23 representative to JWG, reported that the NP in SC 23 N 1315 (TC171/SC 1 N 200) had passed in TC 171/SC 1 and a working draft is being prepared and will be progressed to CD. He said that UDO and DVD should be separate documents.

In connection with the activities of TC 42 and TC 171/SC 1 that are developing standards for life expectancy/error monitoring test methods of optical disks as users, it was felt that SC 23 having the technical expertise should more actively involve in this filed. It was proposed to modify the scope of SC 23 to include this matter.

8.4 IEC TC 100/TA 6 Higher data rate storage media and equipment

IEC TC 100/TA 7 Moderate data rate storage media and equipment

Document N 1366 contained the report prepared by the JTC 1 liaison officer to IEC/TC 100. There was no project in TA 6 and TA 7 that SC 23 needed to pay attention. There was a comment that IEC TC 100 is developing its own procedures like JTC 1 and may possibly impact on some of JTC 1 projects for the benefit of faster standardization.

9. National Body Activity Report

Dr. Tanaka, HoD of Japan, presented its activities in Document N 1368. Japan has established the Life test method Ad Hoc group in JNB/SC 23. The group develops an accelerated life test method of optical disks and permanence of information stored in optical disks. SC 23/JNB would propose a practical life test method to JTC 1/SC 23 in the near future.

Dr. Nelson, HoD of US, presented its activities in Document N 1372. INCITS (the USNB for JTC 1) reactivated B11, which holds the TAG assignment for SC23, in October of 2003. Currently, the Optical Storage Technology Association has begun work on Optical Disk Archive Testing. OSTA and CDs21 are also discussing formation of a Global WG on this subject.

Dr. No-Cheol Park, HoD of Korea, presented its activities in Document N 1379. In 2005, Korea has adopted seven SC 23 international standards as Korean standards. It is working on the national projects such as BD Compatible Integrated Pickup, Dual Layer SIL based NFR and Holographic Digital Data Storage. He said that he will make the Korean National Committee for SC 23 more active, will strengthen members and will cooperate with other National Bodies.

11. Review of Programme of Work

11.1 Status of Fast-track DIS

DIS 25434 - ECMA-364, Data interchange on 120 mm and 80 mm Optical Disk using +R DL Format -- Capacity: 8,55 and 2,66 Gbytes per Side (Recording speed 2,4x) [ballot

closing 2006-01-26]

DIS 25435 - ECMA-365, Data Interchange on 60 mm Read-Only ODC -- Capacity: 1,8 Gbytes (UMDTM) [ballot closing 2006-01-26]

No negative vote and technical comments were expected. Thus, there was no need to prepare a ballot resolution meeting.

11.2 Proposal for NPs/Amendments/Corrigenda

There was no immediate proposal.

11.3 Proposal for Stabilized Standards

DOCUMENT: N 1359 Japan

Based on the new JTC 1 procedure, Japan proposed the stabilization of SC 23 standards as in Document N 1359. ISO/IEC 1863:1990 was still in use in the US. Document N 1359 was approved by adding ISO/IEC 1863:1990.

11.4 Recommendations to JTC 1 Five Years Periodical Review

DOCUMENT: N 1357, N 1358, N 1374 Japan

The draft recommendations for 2006 and 2007 JTC 1 periodic review contained in Document N 1374 were reviewed. The document was approved by changing "withdraw" to "stabilize" for ISO/IEC 1863: 1990.

12. Appointment/Confirmation of Officers (Project Editors, Liaison Officers)

The liaison officers were approved as follows:

JWG of ISO/TC 171/SC 1, ISO/TC 42, JTC 1/SC 23	Dr. Kunimaro Tanaka
ISO/TC 42	Dr. Mitsuru Irie
ISO/TC 171 and TC 171/SC 1	Dr. Terry Nelson
IEC/TC 100	Mr. Mike Deese. Dr. Mikio Mukai

13. Future Work - Technology Status Reports

In order to develop future business plan, SC 23 invited industry experts to report the current status of holographic storage and archival storage.

13.1 Presentations by Industry Experts on the topic of Holographic Storage

- 1) Mr. Mitsuteru Inoue (Toyohashi University of Technology) presented "Magneto-optic Spatial Light Modulators for Ultra-high Density Storage with Collinear Holography" (SC 23 N 1387).
- 2) Mr. Art Rancis (InPhase Technologies Inc.) presented "Recent Advancements in Holographic Data Storage" (SC 23 N 1382).
- 3) Mr. K. Kusuno (Pulstec Industrial Co. Ltd.) presented "The Introduction of Holographic Versatile Disc Test System SHOT series" (SC 23 N 1383).
- 4) Mr. Xiaodi Tan (Japan Science and Technology Agency - CREST) presented "ROM Duplication Technology for Holographic Versatile Disc" (SC 23 N 1384).
- 5) Mr. Tatsuya Imazu (Hitachi Maxell, Ltd.) presented "Holographic Media Development at Maxell" (SC 23 N 1385).
- 6) Mr. Tsutomu Shimura (IIS, the University of Tokyo) presented "A calculation model for the collinear holographic systems" (SC 23 N 1386).

13.2 Presentations by Industry Experts on the topic of Archival Storage

- 1) Mr. Chris Smith, Chairman of ODAT (Sony) presented "ODAT Project at OSTA" (SC 23 1388).
- 2) Prof. Kunimaro Tanaka of DCAj (Teikyo Heisei University) presented "Life Expectancy Test of DVD by DCAj" (SC 23 N 1391).
- 3) Dr. Mitsuru Irie (Osaka Sangyo University) presented "Activities of CD's21" (SC 23 N 1389) for Mr. Takao Ihashi (START Lab Inc.).

14. Development of SC 23 Business Plan for 2006

The Chairman appreciated the presentations made by the industry experts and said that he will include the topics of holographic technology and storage technology as future projects in the business plan of SC 23 for 2006. Also, the chairman asked the participants to send him any comments on the current business plan in Document N 1361.

15. Future Meeting

The next meeting was planned to be held in 2007 together with Ecma TC 31 and/or TC 44.

16. Any Other Business

There was no other business.

17. Approval of Resolutions

All the resolutions were unanimously approved. The approved resolutions are contained in SC 23 N 1381.

When discussing the draft resolutions, the following were confirmed:

- In M12-01, Title, "Recorded media" includes blank media.
- In M12-01 b), Scope, the "guideline" dose not necessarily mean Technical report.

18. Closure of the Meeting

The meeting was closed at 16:55.

Attendance List

Representing	Name	Organization
Chairman	Yoshinobu Mitsuhashi	Japan Science and Technology Agency
Secretariat	Toshiko Kimura	IPJSJ/ITSCJ
Japan (HoD)	Kunimaro Tanaka	Teikyo Heisei University
Japan	Nobuo Akahira	Matsushita Electric Industrial
Japan	Takaaki Ashinuma	Canon
Japan	Takeyuki Fuse	Sony
Japan	Mitsuru Hamada	Fujitsu
Japan	Akiyoshi Inoue	Pioneer
Japan	Mitsuru Irie	Osaka Sangyo University
Japan	Mikio Mukai	Sony
Japan	Yoshihiro Okino	Kansai University
Japan	Isao Satoh	Funai Electric
Japan	Toshihiro Sugaya	Toshiba
Japan	Nobuo Takeshita	Mitsubishi Electric
Japan	Tomoyuki Toshima	NTT Electronics
Korea (HoD)	No-Cheol Park	Yonsei University
Korea	Young-Joo Kim	Yonsei University
Switzerland (HoD)/ Ecma	Jan van den Beld	Ecma International
US (HoD)	Terence Nelson	Panasonic Technologies
US	Mike Deese	Optware Corp. of America
US	Chris Smith	Sony Electronics
Ecma	Masao Endo	Pulstec Industrial
Ecma	Werner Glinka	Fuji Photo Film
Ecma	Hideyoshi Horimai	Optware
Ecma	Yawara Kaneko	Optware
Ecma	François Le Carvenec	Le Carvenec Consultants
Ecma	Mika Nakamura	Optware
Ecma	Art Rancis	InPhase Technologies
Ecma	Yoshihisa Usami	Fuji Photo Film
Ecma	Naoto Yanagihara	Fuji Photo Film
Industry expert	Mitsuteru Inoue	Toyohashi University of Technology
Industry expert	Tatsuya Imazu	Hitachi Maxell
Industry expert	Takao Ihashi	START Lab Inc.
Industry expert	K. Kusuno	Pulstec Industrial
Industry expert	Tsutomu Shimura	University of Tokyo
Industry expert	Xiaodi Tan	Japan Science and Technology Agency
Guest	Tatsuya Katoh	Pulstec Industrial
Guest	Orhan Tuna	Beko Electronics