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Progress Report
from Ecma International
to the
12th Plenary Meeting of JTC 1/SC 23 in Kyoto, Japan
on 1st of December 2005

1. Introduction

There are four TCs in Ecma International involved in the liaison between JTC 1/SC 23 and Ecma International:

- 1) Ecma TC15 – Volume and File Structure
- 2) Ecma TC17 – Magnetic Tapes and Tape Cartridges
- 3) Ecma TC31 – Optical Disks and Disk Cartridges
- 4) Ecma TC44 – Holographic Information Storage Systems (HISS)

2. General Information

The following contains some general information about the four Ecma TCs:

- 1) Ecma TC15 is in suspended animation since its 68th meeting held in San Francisco in October 1997.
- 2) Ecma TC17 is in suspended animation since its 71st meeting held in Lugano in October 2001. The last standards developed by TC17 have been reported to the last Plenary meeting of JTC 1/SC 11 held in Nara, Japan on 14th-16th of May 2002. SC 11 has been merged into JTC 1/SC 29 in 2004.
There is no information to be reported from TC17 to JTC 1/SC 23.
Ecma TC17 will very likely be disbanded in December 2005.
- 3) Ecma TC31, responsible for optical disk and disk cartridge standardization, has held 15 meetings since the 11th SC 23 Plenary Meeting in Lugano in October 2001.
The Chairman is Mr. J. Neumann, the Vice-Chairman is Mr. P. Weijenbergh, the secretary is Mr. J. van den Beld. The number of meeting attendants is about 20.
- 4) Ecma TC44 has held five meetings since its start in December 2004.
The Chairman is Mr. W. Glinka, the secretary is Mr. J. van den Beld.
TC44 intends to complete its first standards in 2006. The number of meeting attendants is about 20.

3. Completed Programme of Work of TC31, as of October 2005

The projects TC31 has been working on since 2000 are:

3.1 120 mm DVD - Read-Only disk (revised)

This project has resulted in the publication of the 3rd edition of Standard ECMA-267 in April 2001.

The standard has been submitted by Ecma for fast-track processing, resulting in the publication of the 2nd edition of ISO/IEC 16448 in 2002.

3.2 80 mm DVD - Read-Only disk (revised)

This project has resulted in the publication of the 3rd edition of Standard ECMA-268 in April 2001.

The standard has been submitted by Ecma for fast-track processing, resulting in the publication of the 2nd edition of ISO/IEC 16449 in 2002.

3.3 130 mm ODC, MO technology, Type R/W – WO – Capacity: 9,1 Gbytes per cartridge

This project has resulted in the publication of Standard ECMA-322 in June 2001.

The Standard has been submitted by Ecma for fast-track processing, resulting in the publication of ISO/IEC 22092 in 2002.

3.4 120 mm (4,7 Gbytes per side) and 80 mm (1,46 Gbytes per side) DVD Rewritable Disk (DVD-RAM)

This project has resulted in the publication of the 3rd edition of Standard ECMA-330 in June 2005.

The Standard has been submitted by Ecma for fast-track processing, resulting in the publication of the 1st edition of ISO/IEC 17592 in 2004.

3.5 Cases for 120 mm and 80 mm DVD-RAM Disks

This project has resulted in the publication of the 2nd edition of Standard ECMA-331 in June 2004.

The Standard has been submitted by Ecma for fast-track processing, resulting in the publication of the 1st edition of ISO/IEC 17594 in 2004.

3.6 Data Interchange on 120 mm and 80 mm Optical Disk using +RW Format - Capacity: 4,7 and 1,46 Gbytes per side (Recording speed up to 4X)

This project has resulted in the publication of the 2nd edition of Standard ECMA-337 in December 2003.

The Standard has been submitted by Ecma for fast-track processing, resulting in the publication the 2nd edition of ISO/IEC 17341 in 2005.

3.7 80 mm (1,46 Gbytes per side) and 120 mm (4,70 Gbytes per side) DVD Re-recordable Disk (DVD-RW)

This project has resulted in the publication of Standard ECMA-338 in December 2002.

The Standard has been submitted by Ecma for fast-track processing, resulting in the publication of ISO/IEC 17342 in 2004.

3.8 Data Interchange on 120 mm and 80 mm Optical Disk using +R Format - Capacity: 4,7 and 1,46 Gbytes per Side (Recording speed up to 8X)

This project has resulted in the publication of the 2nd edition of Standard ECMA-349 in June 2004.

The Standard has been submitted by Ecma for fast-track processing, resulting in the publication the 2nd edition of ISO/IEC 17344 in 2005.

3.9 Data Interchange on 130 mm Rewritable and Write Once Read Many Ultra Density Optical (UDO) Disk Cartridges - Capacity: 30 Gbytes per Cartridge - First Generation

This project has resulted in the publication of Standard ECMA-350 in December 2003.

The Standard has been submitted by Ecma for fast-track processing, resulting in the publication of ISO/IEC 17345 in 2005.

3.10 Data Interchange on 90 mm Optical Disk Cartridges - Capacity: 1,3 Gbytes per Cartridge

This project has resulted in the publication of Standard ECMA-351 in December 2003.

The Standard has been submitted by Ecma for fast-track processing, resulting in the publication of ISO/IEC 17346 in 2005.

3.11 Data Interchange on 90 mm Optical Disk Cartridges - Capacity: 2,3 Gbytes per Cartridge

This project has resulted in the publication of Standard ECMA-353 in June 2004.

The Standard has been submitted by Ecma for fast-track processing, resulting in the publication of ISO/IEC 22533 in 2005.

3.12 80 mm (1,46 Gbytes per side) and 120 mm (4,70 Gbytes per side) DVD Recordable Disk (DVD-R)

This project has resulted in the publication of Standard ECMA-359 in December 2004.

The Standard has been submitted by Ecma for fast-track processing and will be published as ISO/IEC 23912 in 2005.

3.13 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)

This project has resulted in the publication of ECMA-364 in June 2005. The Standard has been submitted by Ecma for fast-track processing and will be published as ISO/IEC 25434 in 2006.

3.14 Data interchange on 60 mm Read-Only ODC - Capacity: 1,8 Gbytes (UMD™)

This project has resulted in the publication of ECMA-365 in June 2005.

The Standard has been published by Ecma for fast-track processing and will be published as ISO/IEC 25435 in 2006.

4. Current Programme of Work of TC31

4.1 Data Interchange on 120 mm and 80 mm Optical Disk using +R Format - Capacity: 4,7 and 1,46 Gbytes per Side (Recording speed up to 16X)

This Standard will be published in December 2005.

4.2 Data Interchange on 120 mm and 80 mm Optical Disk using +RW HS Format - Capacity: 4,7 and 1,46 Gbytes per Side (Recording speed 8X)

This Standard will be published in December 2005.

5. Current Programme of Work of TC44

5.1 Information Interchange on Holographic Versatile Disc (HVD) Recordable Cartridges – Capacity: 200 Gbytes per Cartridge

5.2 Three further projects are planned but have not yet started:

5.2.1 100-Gbytes HVD of the Phi (Permanent Holographic Information) Type. This is a Read-Only disk.

5.2.2 30-Gbytes HVC on the Phi (Permanent Holographic Information) Tpe. This is a Read-Only Holographic Versatile Card. There may be more than one form factor.

5.2.3 Case for HVD Read-Only disks: There will be two Types of case: one for removable disk, and one without that possibility.

5.3 A study project on volume and file structures for Holographic Information Systems (HIS) is ongoing.