

**ISO/IEC JTC 1**  
**Information technology**  
**Secretariat: ANSI (United States)**

**Document type:** Officer's Contribution

**Title:** SC 23 Convenor's Presentation to the November 2013 JTC 1 Plenary

**Status:** This document is circulated for review and consideration at the November 2013 JTC 1 Plenary meeting in France.

**Date of document:** 2013-09-26

**Source:** SC 23 Convenor

**Expected action:** ACT

**Action due date:** 2013-11-04

**Email of secretary:** [lrajchel@ansi.org](mailto:lrajchel@ansi.org)

**Committee URL:** <http://isotc.iso.org/livelink/livelink/open/jtc1>



# ISO/IEC JTC 1 SC 23

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Kei YAMASHITA, SC 23 Chair

Toshiko KIMURA, SC 23 Secretariat

2013 JTC 1 Plenary

# what is new

## ■ Work items

### ◆ IS ; Published

ISO 9660:1988•Amd 1:2013 Published(2013-04-15)  
(CD-ROM Volume & File structure std.)

ISO/IEC 30190, ISO/IEC 30191, ISO/IEC 30192, ISO/IEC 30193  
Published (2013-07-01)  
(BD recordable & BD rewritable physical Format Std.)

◆ DIS ; ISO/IECS 29121(Ed.2) Approved (2013-07-04)  
(CD/DVD data migration Method std.)

◆ On going ; Revision of ISO/IEC 16963 at SC23/JWG1  
(CD/DVD/BD life estimation Test method std.)

## ■ Participants

P-Members	Total 7	(-1 from2012)
O-Members	Total 20	

■ Liaisons ISO TC42, ISO TC171, IEC/TC 100/TA 6,  
Ecma TC31, WIPO



# Current Activities

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## 1. ISO/ IEC 16963:2011 revision

Information technology -- Digitally recorded media for information interchange and storage  
-- Test method for the estimation of lifetime of optical media for long-term data storage

### ■ Out line

- ◆ to add four BD recordable and rewritable disk standards, ISO/IEC 30190, ISO/IEC 30191, ISO/IEC 30192, ISO/IEC 30193 to ISO/IEC 16963 rev.
- ◆ The revision work will be done at SC23/ JWG1 together with ISO/TC 42, ISO/TC 171/SC1 and Ecma TC31.

### ■ Meetings

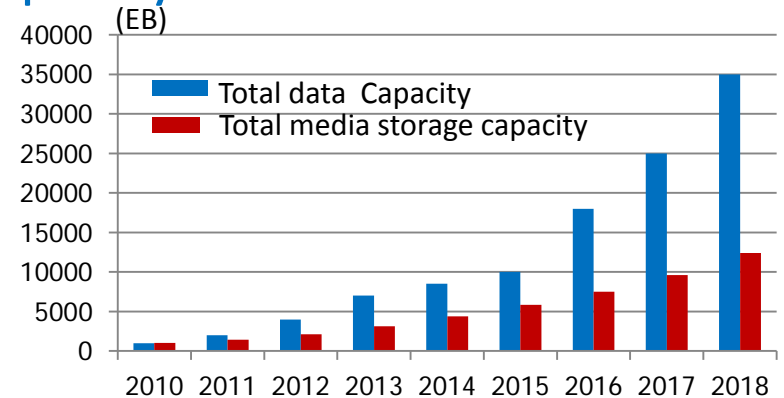
- ◆ 5<sup>th</sup> Meeting (1<sup>st</sup> Meeting) was held in Sapporo Japan, on Dec.12, 2012
  - participations; SC23, ISO/TC42 & Ecma TC31,
  - Conveners, Editors, Procedure and Concept of the revision were discussed and approved.
- ◆ 6<sup>th</sup> Meeting was held in Salt Lake City, UT. USA on May 15, 2013
  - participations; SC23, ISO/TC42 & Ecma TC31,
  - 1<sup>st</sup> WD from SC23(JNB) was discussed.
- ◆ 7<sup>th</sup> Meeting was held in Tokyo, Japan on Sep.25, 2013
- ◆ 8<sup>th</sup> Meeting will be held in Switzerland on Feb.5, 2014

# Storage Media Capacity Trend

(World Wide market trend data from Fujikimera)

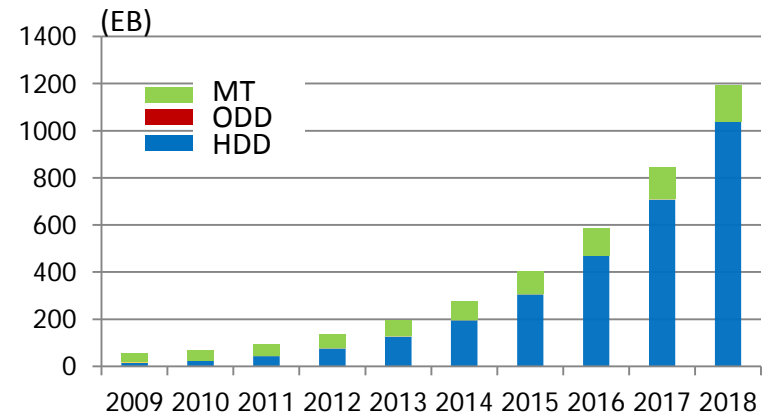
## < Total Data capacity vs. Storage Media Capacity >

- To achieve the data Explosion, storage media Data capacity should be enhanced more and more.



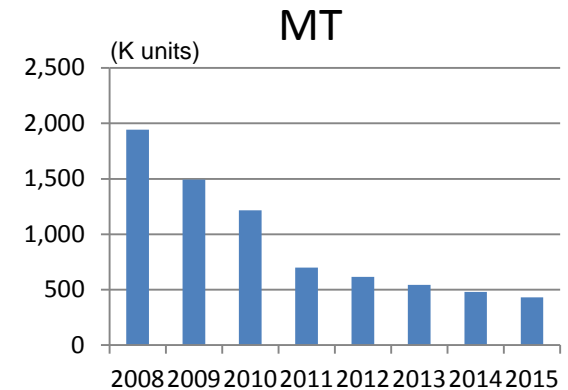
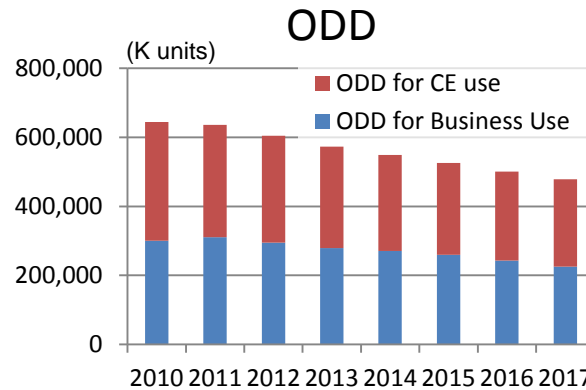
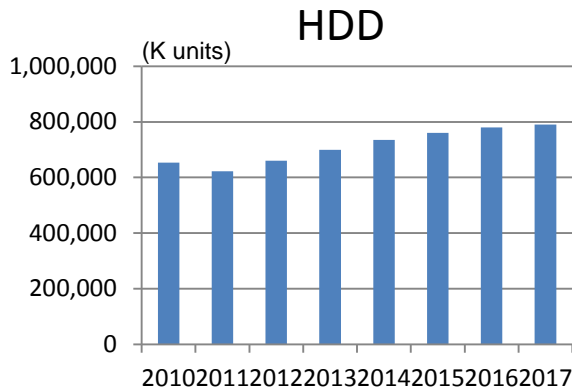
## < Total Archival storage Media Capacity Trend >

- Major media for Archive data storage are changing from MT to HDD in year 2018, HDD is influenced more than 80% of Archive data storage market.
- ODD covers very small data archive market. Even though, ODD's features, such as long date life, small power consumption, strong for disaster, etc. are noted.
- ODD's capacity enhancement is highly expected.



# Storage Media Shipment Trend

(World Wide market trend data from Fujikimera)



HDD will slightly increase

(700 Million units in 2013 —> 800 Million units in 2017 )

ODD will decrease slightly

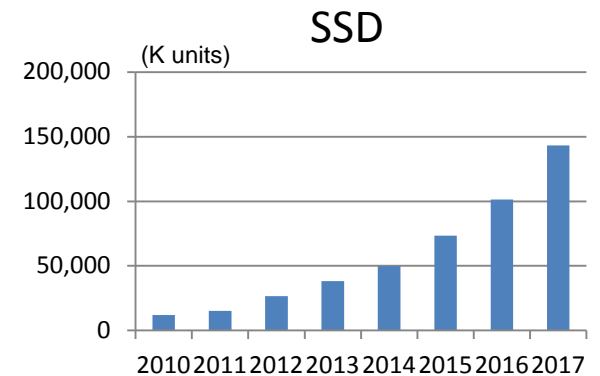
(600 Million units in 2012 -> 480 Million units in 2017),

But ODD will still keep its big market position

MT will rapidly decrease

(2 Million units in 2008 -> 430 K in 2015)

SSD will significantly increase its shipment





# Future activities

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- new directions
  - Expected New Work items
    - ◆ ISO/IEC 29121 (3<sup>rd</sup>.)
    - ◆ High capacity Optical disk standards.  
(holographic memory, multi layer optical disks, etc.)
    - ◆ New area such as Storage Class Memory, Digital Preservation, Big data, etc. (need more technical experts)
- date/location of next SC plenary
  - 17<sup>th</sup> Plenary Meeting will be held sometime in USA 2014.  
(Place and date will be determined later)



# End

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- Thanks
- Questions?