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ISO/IEC JTC 1 SC 23

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2009 JTC 1 Plenary



what is new

- work items: 8(+1) IS published
1 FDIS
JWG with ISO/TC42
- Participants: 1 P-member → O-member
total 8 P-members
- Liaisons: no change
ISO/TC42, TC171, TC171/SC1,
IEC/TC100/TA6&7, Ecma Int., WIPO



what is new work items

- **ISO/IEC 29121** Published: 2009-02-15
Data migration method for DVD-R, DVD-RW, DVD-RAM, +R, and +RW disks
- **FDIS 29171** Under ballot: close date 2009-10-25
Information Versatile Disk for Removable usage (iVDR) cartridge
- **others are optical disk formats:** Published
UDO(60GB), DVD-R(DL), +RW(4X), +RW(16X)
+R(DL, 16X), +RW HS(8X), +RW(DL, 2, 4X)



what is new work items

■ JWVG with ISO/TC42

development of optical storage media
longevity testing

2008.11 JTC1 approved the establishment

2008.12 SC23 Plenary discussed the matter

2009.02 proposed meeting was cancelled

2009.06 proposed meeting was postponed

2009.10.09 proposed meeting will be held



what is new JWG

development of optical storage media longevity testing

		Optical Disk	
		CD-R	DVD
Acceleration test	5 Conditions (Heavy test)	18927	JW Activity
	4 Conditions (Simple test)		10995

SC23 proposed the DVD specification with same test condition as 18927 (ISO/TC42).



what is new: Participants

- 1 P-member → O-member
Kazakhstan
- 8 P-members
China, India, Japan, Korea, Netherlands, Russia,
Switzerland, USA
- 17 O-members



user engagement

- Participation

In April 2009, a non-profit organization
Archive Disc Test Center, has started to test
DVDs based on ISO/IEC 10995.

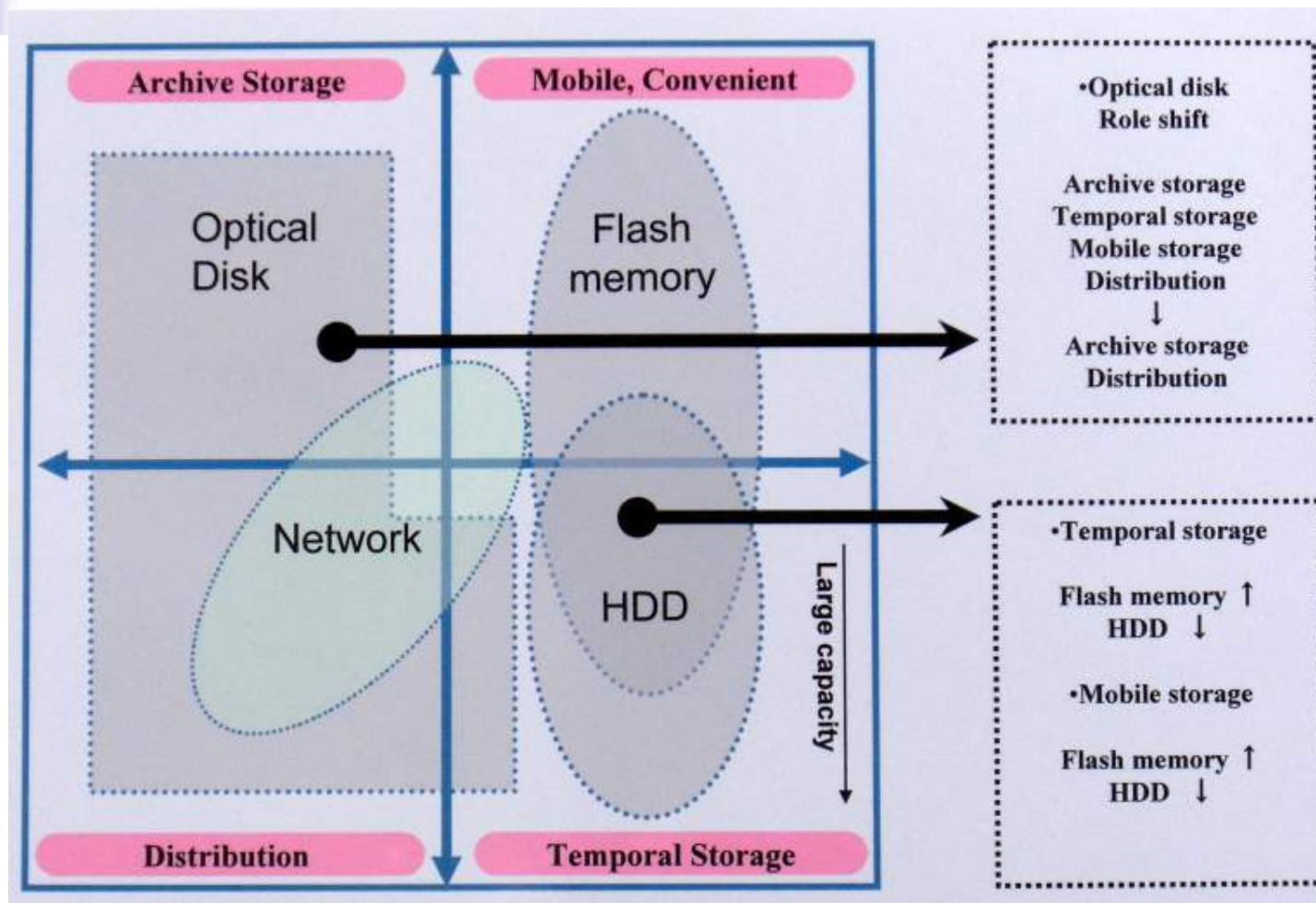
<http://www.n-adtc.org/>

- requirements addressed

To expand test methods.

- challenges

Optical disk role shift





Archive application

Discussion in **ISOM 2009** (International Symposium on Optical Memory),
Nagasaki, Japan, October 4-8, 2009. <http://www.isom.jp/>

- * Optical Data Storage for Archive Application.
- * Optical Disc based Archive for Sustaining Society.
- * Towards a True Archival-Quality Optical Disc.

In USA the Archival Gold DVD-R has been sold announcing to
safely store your images for more than 100 years and BD-R for
200 years. <http://www.delkin.com/>



known implementations 1

■ Magnetic tape (SC11): 8 B\$

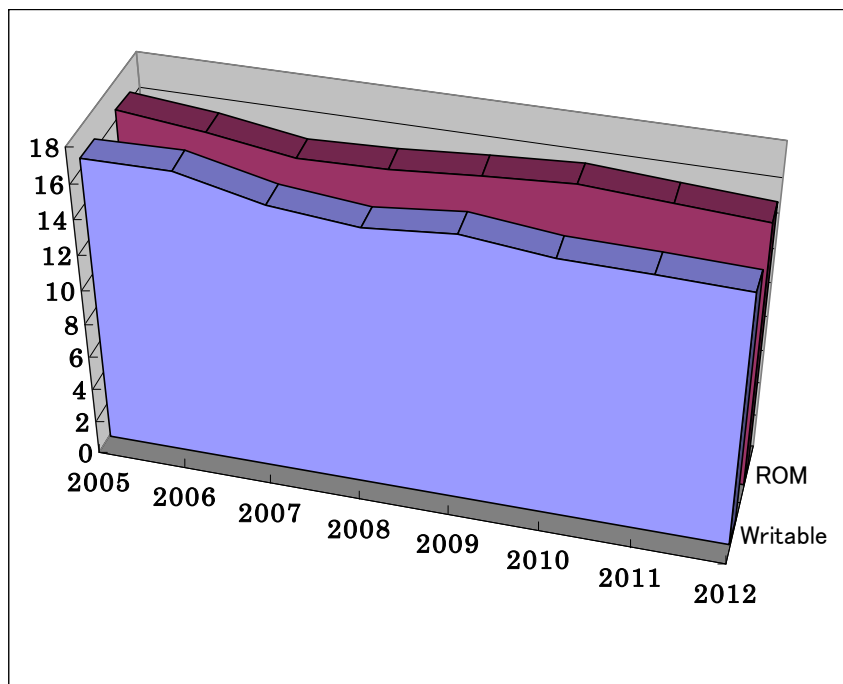
In four segment as, Entry, Low End, Midrange, Enterprise, various magnetic tape are used and total market including tape and drive in the world is estimated around 8 Billion \$ in 2009. Many products are supported by existing **ISs**. LTO (Linear Tape-Open, **de facto**) series technology has dominated recently because of its upgraded storage capacities

■ Optical disk : 20 B\$

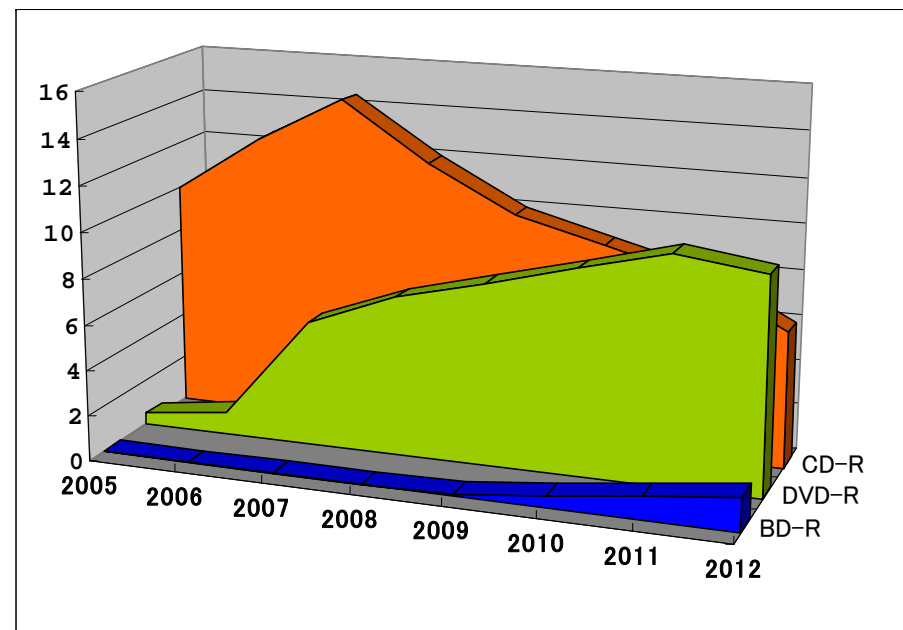
Optical disk drive sales exceeded **350 Million (AV) and 150 Million (PC)**. **Total media sales** including both ROM and writable, half and half, exceeded **30 billion** in the world in 2008. The market value of optical disk industry was around 20 Billion \$, that is a little shrinkage as compared as the estimation before the world economical crises.

Optical disk media market

Total (ROM & Writable) media trend
unit: Billion



Writable media trend unit: Billion



CD-R is decreasing

DVD-R is increasing

BD-R does not cover the decrease of CD-R

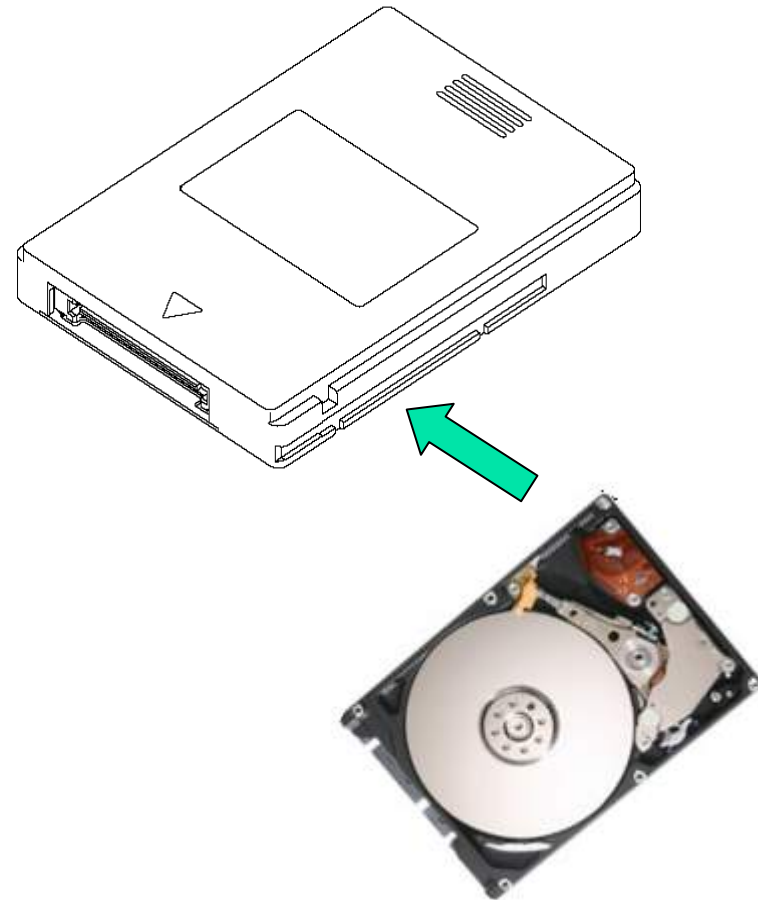
known implementations 2

- iVDR (R-HDD)

is emerging and used already implemented in a TV-set, a handy camera for broadcasting etc.

The HDD industry revenue is around 40 B\$ in 2008.

The opportunity looks bright for R-HDD adoption.





outreach

- press releases
- Articles

ISO Focus April 2009

Optical data storage – How
long will it last?

- citings by external sources



challenges

- impediments to success

Small number of players and NBs.

The revised JTC1 Directives in March 2009 for the NWI approval criteria encouraged the industry and SC 23 .



issues or needs

- resource constraints



2010

- new directions : **JWG**
- date/location of next SC plenary

No SC23 Plenary is scheduled yet
after 14th SC23 Plenary held in December
2008.