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ISO/IEC JTC 1 SC 23

Yoshinobu MITSUHASHI, SC Chair Ayuko NAGASAWA, SC Secretariat 2009 JTC 1 Plenary REVISED PRESENTATION





what is new

work items: 8(+1) IS published

1 FDIS

JVG 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: 7 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

■ JWG with ISO/TC42

development of optical storage media longevity testing

2008.11 JTC1 approved the establishment

2008.12 \$\infty\$23 Plenary discussed the matter

2009.02 proposed meeting was cancelled

2009.06 proposed meeting was postponed

2009.10.09 1st meeting held in Tokyo



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1st JWG meeting in Tokyo, Oct.9, 2009





Co-located with TC42 Plenary Meeting

SC23 member 9(+1)

TC42 member 8(+1)

The 2nd meeting is scheduled on February 24-25, 2010 in Los Angeles area.



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

Pmembers

China, India, Japan, Korea, Netherlands, Russia, Switzerland, USA

■ 1 1 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 addressedTo expand test methods.
- challenges



ISO/IEC10995

AVANT-PREMIÈRE



L'Archive Disc Test Center : un laboratoire japonais de tests de disques optiques

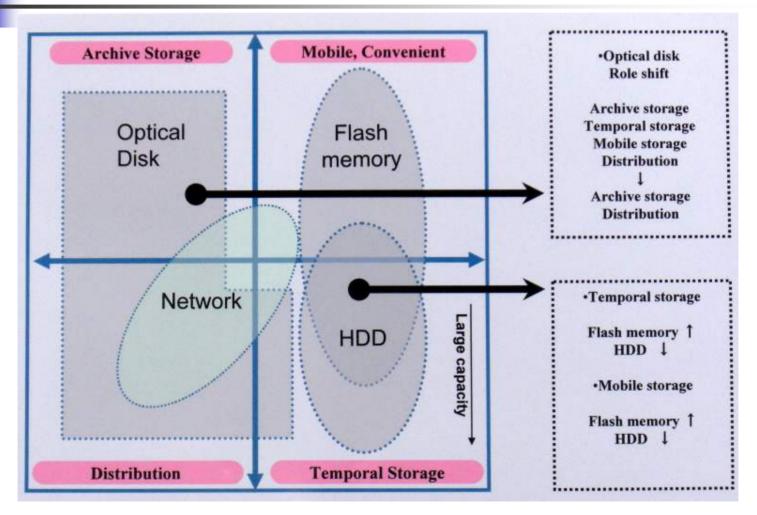
Comme nous l'avions précédemment annoncé, l'association japonaise CDs21 Solutions a mis en place un laboratoire de tests de disques optiques afin d'évaluer leur conservation sur la durée et leurs aptitudes en tant que support d'archivage électronique.





N°256

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/





Archival Optical Storage IOM2009 We-H-06

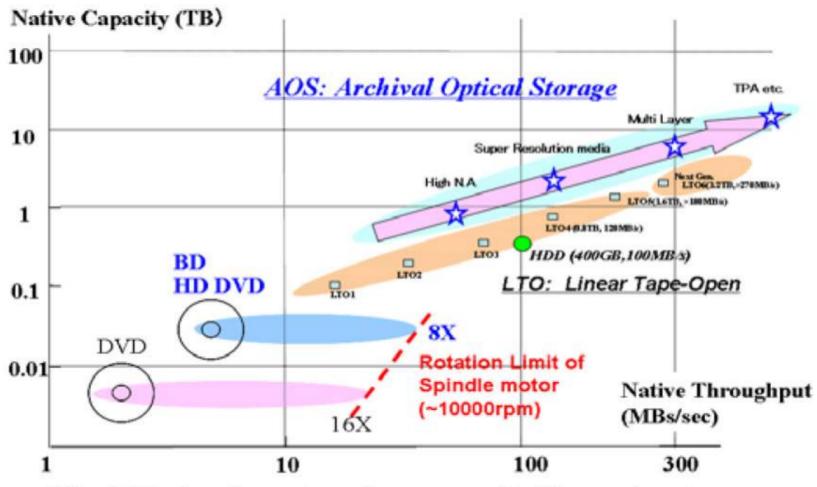
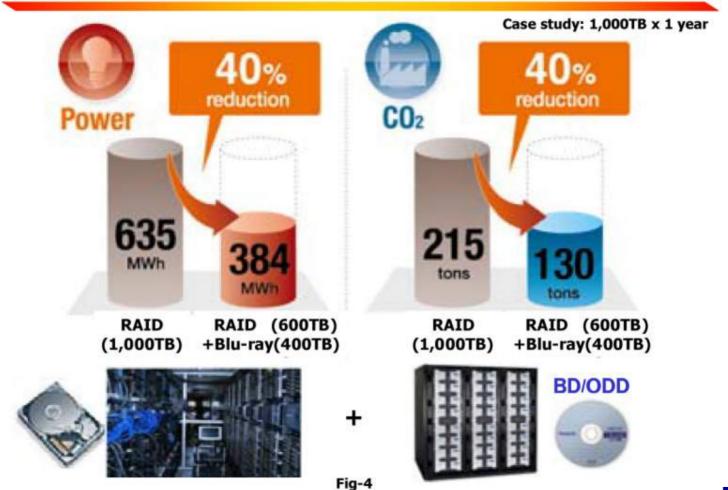


Fig.5 Technology trend vs capacity/throughput



Optical Disc for a Sustaining Society SOM2009 We-H-07

Green archive by hybrid storage







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\$

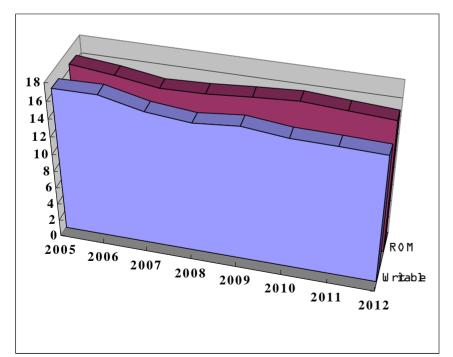
Optical disk drive sales exceeded 350 Million (AV) and 150 Million (PC). Total media sales including both ROM and writable, half and half, exceeded 30 billion in the world in 2008. The market value of optical disk industry was around 20 Billion \$, that is a little shrinkage as compared as the estimation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



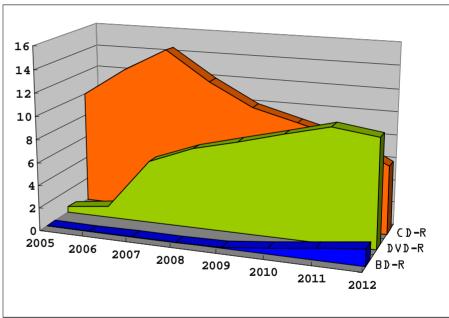


Optical disk media market

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



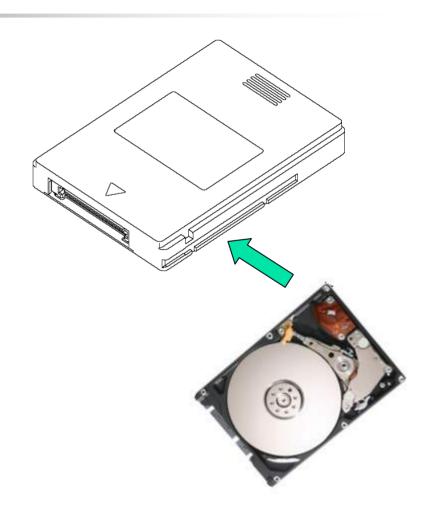
known implementations 2

■ 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.







http://www.ivdr.org/

CEATEC JAPAN



outreach

- June 2008
 - New on solution the shelf
- for estimating the useful life of DVDs

 by American Francisco
 Communication (Ighan)
- On Indiana Mandria Thereff in BODY phonomous of P 1971

- press releases
- Articles



April 2009



Optical data storage - How long will it last?

by Yoshinobu Mitsuhashi, Chair, ISO/IEC JTC 1/SC 23, Digitally recorded media for information interchange and storage

2009 JTC 1 Plenary

ISO standards for optical discs are developed within joint technical committee ISO/IEC JTC 1, Information technology, subcommittee SC 23, Digitally recorded media for information interchange and storage. Until relatively recently, SC 23 focused exclusively on specifications for interchangeability of media, developing standards for technologies such as CD-ROM and various types of DVD.

"The number of optical disc

interchange and storage – Data migration method for DVD-R, DVD-RW, DVD-RAM, +R, and +RW disks, was published in February of this year.

Together, these two standards provide a reliable system for DVD archiving applications.

By following ISO/IEC 10995, users can select high-quality DVDs with a short practical measuring time for an archiving system. Users are advised to measure a specified initial recording performance according to ISO/IEC 29121. Discs for





challenges

impediments to successSmall 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





- new directions : JWG
- date/location of next SC plenary No SC23 Plenary is scheduled yet after 14th SC23 Plenary held in December 2008.