



AIIM Optical Tape Study Group

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NIST UNITED STATES
DEPARTMENT OF COMMERCE
NATIONAL INSTITUTE OF STANDARDS
AND TECHNOLOGY

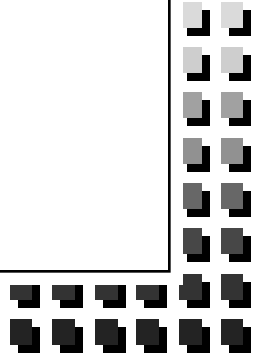


The Optical Tape Study Group (OTSG)

- Formed by the Association for Information and Image Management (AIIM) International.
 - It provides interested industrial organizations and users with an open forum to discuss:
 - Media characteristics
 - Metrology issues
 - Data integrity issues
 - Need for standards
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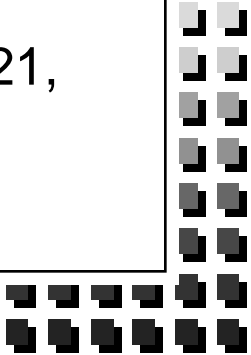


OTSG Activities

- **With data provided by participating companies, OTSG developed a Technology Roadmap.**
 - **OTSG is currently specifying and documenting:**
 - WORM optical tape media intrinsic characteristics
 - Test methods for measuring these characteristics
 - Media error monitoring and reporting information (MEMRI) to verify stored data on optical tapes
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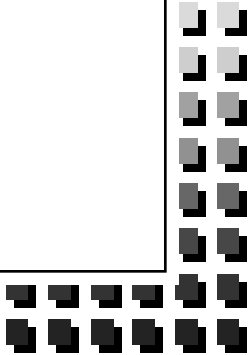


OTSG Activities (Cont.)

- **In February 1996, OTSG proposed to AIIM the formation of a new SG to address the issue of metadata for portability of sequential storage media.**
 - AIIM formed FMP SG.
 - FMP SG is specifying metadata for interchange of files on sequential storage media between file storage management systems (FSMS).
 - A project proposal for the development of an ANSI standard is being prepared.
 - The project proposal will be submitted to the AIIM Standards Board for consideration of approval.
 - The standard would likely be developed under AIIM TC C21, “Storage Devices and Applications”
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OTSG Activities (Cont.)

- **OTSG is writing a project proposal to develop MEMRI as an ANSI standard.**
 - The project proposal will be submitted to the AIIM Standards Board for consideration of approval.
 - The ANSI/AIIM standard would likely be developed under AIIM Technical Committee (TC) C21, “Storage Devices and Applications”.
 - Although the current scope is optical tape, OTSG would like to see magnetic tape added to the scope.
 - We are seeking other volunteers to participate in the development of the proposed standard.
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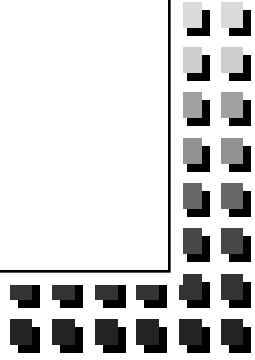


OTSG Meetings

■ Six meetings were held:

- August and November, 1995
- February, April, July and October, 1996

■ Schedule for following meetings:

- December 10 - 11, 1997 (AIIM Headquarters)
 - February 6 - 7, 1997 (AIIM Headquarters)
 - April 15, 1997 (concurrently with AIIM '97 in NY, NY)
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Participant/Observer Organizations

Apex
Boeing
Callicott (Consultant)
Central Imaginery Office, DOD
Customer Refocus
LDS Church
Eastman Kodak
E-MASS
E-Systems
Filetek
Genealogical Society of Utah
IIT Research Institute
IRS
LaserTape
Library of Congress
Lockheed Martin
Loral Federal Systems
Lots Technology

Mitre
NASA/GSFC
NARA
NSIC
NML/Imation
NIST
Offering Technology Solutions
Philips Research Laboratories
Polaroid
Primelink
Radix Systems
SAIC
SES Inc.
South Wall Technologies
StorageTek
SyntheSys Research
Terabank Systems
TRW
Univ. of AZ



AIIM Optical Tape Study Group Technology Roadmap(*)

System name	Average Access Time (s)	User Capacity (GB)	Sustained Data Rate (MB/s)	Year of Introduction	Tape Width Tape Length
CREO/EMASS OTR	65	1000	3	1991	w=35 mm, L=800 m
Terabank TRAMMS1	2	100	6	1998	w=8 mm, L=120 m
Terabank TRAMMS2	2	200	12	1999	w=8 mm, L=120 m
Terabank TRAMMS3	2	400	24	2001	w=8 mm, L=180 m
LOTS Lasertape 15T	20	1000	15	4Q 1997	w=12.7 mm (0.5in), L=400m
Lots Lasertape 100T	20	1000	100	4Q 1998	w= 12.7 mm (0.5in), L=400m
Philips	15	80	3.75		w=8mm, L=110m
Primelink	0.05 - 2	72 - 1350	1.88	1995 - 2000	w=8mm, L=100m

(*) Technology projections, **not** product announcements