

Doc. No.: T13/D97147R0
Date: 8/3/97
Project:
Ref. Doc.:
Reply to: Lawrence J. Lamers

To: Membership of T13
From: Lawrence J. Lamers, Secretary T13
Gene Milligan, Chair T13
Subject: Minutes of T13 Plenary #7
July 25, 1997 : San Jose, CA

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Results of Meeting

1. Opening Remarks

Gene Milligan, the T13 Chairman, called the meeting to order at 11:13 a.m., Friday July 25, 1997. He thanked Marc Noblitt of Seagate for hosting the meeting.

Gene outlined the procedures for conducting meetings, voting rules, and membership application. He noted that the 1997 membership fee is \$300 and the CD-ROM mailing fee is \$300 (with extra copies at discount). Because of the costs to have paper copies generated, a paper mailing is \$900. These fees are for the US and Canada addresses. Other addresses are \$400 for the CD-ROM and \$1100 for paper.

As is customary, the people attending introduced themselves and a copy of the attendance list was circulated. Copies of the draft agenda and general information on T13 were made available to those attending.

2. Approval of Agenda

The list of recommendations from the working groups was expanded and the agenda approved, without objection, as reflected in these minutes.

3. Attendance and Membership

The membership requirements were reviewed. NCITS rules permit one vote per principal member organization. An individual from a new organization must attend two out of three consecutive plenary meetings. He/she may apply for voting membership at the second, or later, plenary meeting attended via a letter to the Chair of T13. Working group meetings do not count toward attendance requirements.

Organizations must also pay the NCITS Service Fee (\$300) to maintain membership. If a voting member organization (Principal Member) fails to attend two out of three successive plenary meetings, the Chair is required to warn the voting member organization that they are in jeopardy of being terminated (changed from Principal Member to Observer). The Chair is also required to warn a Principal Member of their jeopardy if they fail to fill out and return two successive Letter Ballots.

The following organizations are in jeopardy for failing to return letter ballots: None.

Some organizations have been dropped for failing to pay the NCITS fee.

The following organizations were in jeopardy for failing to attend meetings:

- Microhouse,
- Oak Technology

All organizations were in attendance except for:

Microhouse which was changed to Observer.

The following organizations which were eligible for voting membership at this meeting joined T13: Award joined with Irv Tjomslund as principal and Josephine Hsu as alternate. Iomega joined with Darrell Redford as principal and Ron Stevens as alternate.

With these changes the T13 membership is down from 27 to 26 @@ organizations. Enclosure (1) is the list of the people present at the meeting and enclosure (2) is the current T13 membership list.

4. Document Distribution

Members who have any problems with their mailing subscription should deal directly with Katrina Gray (kgray@itic.nw.dc.us) at (202) 626-5741.

Pete McLean requested that all documents for the next mailing be in his hands by 10:30 a.m. on Friday, August 1, 1997. Documents received too late will go into a subsequent mailing.

The current document register is enclosure (3).

5. Approval of prior plenary minutes

Document D97130r0 was approved without objection.

6. Review of Old Action Items

- 57) Tom Hanan to modify the T13 web site to reflect the name change. Completed.
- 59) Gene Milligan to send the response to the no vote on the Tailgate project proposal to NCITS. Completed.
- 60) Gene Milligan to send the Tailgate project proposal to NCITS. Completed.
- 61) Gene Milligan to transmit the T13 manifesto to NCITS. Completed.

7. Working Group Reports

The results of the ATA/ATAPI-4 ad hoc meetings since the last plenary are documented in the minutes for each of those meetings. The chair gave a brief summary of the ad hoc meetings held since the last plenary.

Pete McLean reviewed the results of the Tailgate working groups since the last plenary.

8. ATA/ATAPI-4 - Project 1153D

8.1 Working Group Recommendations

The Chair reviewed the recommendations contained in the minutes of the working groups since the last plenary.

Marc Noblitt moved and Tony Goodfellow seconded that the recommendations of the ad hocs since the last plenary be accepted. The motion passed without objection.

The plenary agreed without objection that a minor revision number will be assigned to rev 15.

8.2 Approval of working draft

ATA/ATAPI-4 rev 14 was accepted as the working draft without objection.

8.3 Schedule

The revised schedule calls for the draft to be balloted following the July '97 plenary.

Final edit - July

Letter Ballot – August revised to September.

Resolve comments - October.

9. Enhanced BIOS Disk Drive Technical Report Project D1226

9.1 Working Group Recommendations

See item 8.1.

9.2 Approval of working draft

Enhanced BIOS Services revision 5 was accepted as the working draft without objection.

The next revision was recommended to be balloted to forward for further processing.

9.3 Schedule

Not reviewed due to forwarding recommendation..

10. Tailgate Project XXXX

10.1 Working Group Recommendations

The tailgate project has been approved but the project number is not assigned. Pete McLean reported that the tailgate ad hoc recommended the draft be balloted as soon as the project number is available.

Pete McLean moved and Tom Hanan seconded that the draft be balloted to forward for further processing. The motion passed unanimously.

10.2 Approval of working draft

Tailgate revision 3 (D97107r3) was accepted as the working draft without objection.

10.3 Schedule

Not reviewed due to forwarding recommendation..

11. Old Business

11.1 T13 Reflector, ftp, and Web Site Setup [Hanan]

Committee information can be accessed via the ftp site [x3t13.dt.wdc.com/t13](ftp://x3t13.dt.wdc.com/t13)

The web site access via www.t13.org is not activated yet.

The reflector is x3t13@dt.wdc.com. Subscriptions to the reflector should be sent to majordomo@dt.wdc.com, with "subscribe t13" in the body.

The performance has been improved due to new hardware. The reflector malfunctioned but has been corrected.

The name change will be dealt with following the next OMC. Until then the reflector and ftp remain X3T13.

12. New Business

12.1 Future Projects or Maintenance Mode [] ()

Should an ATA 5 project be instantiated. This decision was postponed until the next meeting.

Curtis Stevens reported that the El Torito specification and the BIOS Boot specification should be processed through the standards process.

13. Liaison Reports

13.1 T10

Will be provided on the reflector.

Ron Roberts reported that the MMC ad hoc proposed that commands defined in MMC2 not be modified to cover the DVD support in Mt. Fuji. These commands are proposed for SPC-2 draft.

Pete McLean report that the SBP-2 draft is very solid with regard to asynchronous data. There is still some controversy around isochronous data. The STS draft will be become an annex of SBP-2.

The 1394 Command Profile for Storage devices document will be proposed as a new project to T10. It will then be open to any device type. The commands for hard disk will be complete and included as an annex until the dust settles on MMC-2 and SPC-2.

13.2 IEEE 1394

Gene Milligan reported that the IEC standard being processed for 1394 AV equipment is ISO/IEC 61883 (The IEC SC 100/WG 11 is the group assigned responsibility for this project.) but the 1394 base interface does not as yet seem to be a project. Both SC 25 and SC 26 think they should be the home for the 1394 project.

IEC 61883 is on FDIS stage, Final Draft International Standard and will be published after passing vote. The result of vote will be announced at the next meeting in Makuhari, Chiba, Japan on September 9th.

Further information can be obtained at www.iec.ch.

13.3 SFF

Dal Allan reported that SFF 8049 is near publication. SFF 8059 will incorporate the recommendation of T13 ad-hoc.

The SDX project is now official (SFF 8065); a swig will be held in Japan and another in Hawaii. Due to the international nature of meetings a ballot on extending the meeting announcement period to 28 days will be conducted.

The current intent for future revisions of SFF-8020I is to make them projects. An interim document SFF 8095 on DVD RAM will be available when the NDA is cleared.

14. Call for Patents

This is a regular agenda item to identify any potential patent issues with developing standards.

A document is available from ANSI, "Procedures for the Development and Coordination of American National Standards", at no charge. Annex I contains the ANSI patent policy.

The Chair requested that any participant aware of patents or patent disclosures that may be required to comply with any publications resulting from T13 projects provide an early disclosure of such patent and offer to license such patents under reasonable and non-discriminatory conditions in accordance with the ANSI Patent Policy. No additional patents were identified by the attendees in response to this call.

Mark Evans reported that the contact for the licensing the patent on Ultra DMA is Madelynn Rivera (408) 894-4938 or Debra Chun (408) 894-5161.

15. Open Issues List Summary

The following item was added to the list at the ad hoc meeting:

- 11) Check tE value in Table 31 Multiword DMA data transfer.
- 12) Can the minimum 40 ns be extended to all devices any time it is asserted.
- 13) How should removable media devices handle words 54-58 if the IDP command is not able to complete successfully?

16. Review of Action Items

62)

17. Meeting Schedule

The next plenary meeting of T13 will be October 24, 1997 at the Aston Wailea Hotel, in Maui, HI hosted by Quantum.

The subsequent plenary meeting of T13 will be January 23, 1998 at the Seagate facility in San Jose, CA, hosted by Seagate.

Several of the attendees indicated that it had been very helpful to have the meeting in a location more convenient for travel from Japan. They requested that a meeting be held in Hawaii again next year.

These plenary meetings occur on Friday with a starting time of 9:00 am.

17.1 Authorization of Working Group Meetings

The plenary authorized the following ad hoc meetings:

Date	Location	Host	Contact
August 20-22, 1997	Longmont, CO	Silicon Systems	Yogi Schaffner
September 24-26, 1997	Irvine, CA	Western Digital	Tom Hanan
October 22-24, 1997	Maui, HI	Quantum	Mark Evans

Pete McLean requested the following ad-hocs for Tailgate:

Date	Location	Host	Contact
October 7, 1997	Irvine	SSI	Steve Finch

The scheduled working group meetings were approved unanimously.

17.2 Long term meeting schedule

Date	Location	Host	Contact
August 20-22, 1997	Longmont, CO	SSI/TI	Yogi Schaffner
September 24-26, 1997+	Irvine, CA	Phoenix Technologies	Curtis Stevens

October 22-24, 1997*	Wailea, Maui, HI	Quantum	Mark Evans
December 3-5, 1997	Irvine, CA	Western Digital	Tom Hanan
<i>January 21-23, 1998+</i>			<i>Marc Noblitt</i>
February 17-20, 1998*	Ft. Collins	Symbios Logic	Dave Evans
<i>March 25-27, 1998+</i>			<i>Marc Noblitt</i>
April 14-17, 1998 *	San Jose, CA	Seagate	Marc Noblitt
<i>May 20-22, 1998+</i>			<i>Marc Noblitt</i>
June 16-19, 1998*	Irvine, CA	Western Digital	Tom Hanan
<i>July 22-24, 1998 +</i>			<i>Marc Noblitt</i>
August 18-21, 1998*	Boulder, CO	Maxtor	Pete McLean
<i>September 23-25, 1998+</i>			<i>Curtis Stevens</i>
October 20-23, 1998*	Wailea, Maui, HI	Quantum	Mark Evans
December 1-4, 1998*	Irvine, CA	Western Digital	Tom Hanan

* indicates that Friday will be used for the plenary meeting.

+ indicates this meeting is tentative and may be canceled.

18. Adjournment

The meeting was adjourned upon completion of all agenda items.

Meeting Attendees -- Enclosure (1)

Charles	Brill	AMP, Inc.	P
Richard	Kalish	Adaptec, Inc.	P
Lawrence	Lamers	Adaptec, Inc.	A1
Ron	Roberts	Apple Computer	A
Irv	Tjomsland	Award	P
Raymond	Liang	CMD Technology	A
Hale	Landis	Consultant	P
Paul	Raikunen	Digital	P
I. Dal	Allan	ENDL	G
Kazuo	Nakashima	Fujitsu	G
Robert	Liu	Fujitsu Computer Products	P
Tony	Goodfellow	GSI	P
Dan	Colegrove	IBM Corp.	P
Ron	Stephens	Iomega Corp.	G
Pete	McLean	Maxtor Corp.	P
Son	Ho	Neomagic Corp.	O
Wayne	Baldwin	Oak Technology, Inc	G
Curtis	Stevens	Phoenix Technologies	P
Mark	Evans	Quantum Corp.	P
Paresh	Sheth	SSI	P
Gene	Milligan	Seagate Technology	P
Marc	Noblitt	Seagate Technology	A
Patrick	Mercer	SyQuest Technology Corp	A
David	Evans	Symbios Logic	A
Tokuyuki	Totani	Toshiba America Info.	P
Tom	Hanan	Western Digital Corp.	P

T13 Attendance Database - Enclosure (2)

ORGANIZATIONAL ATTENDANCE AT LAST THREE MEETINGS -----				INDIVIDUAL ATTENDANCE -----	
				v	v
Kent	Manabe	AKEI (Panasonic)	G	1	0
Charles	Brill	AMP, Inc.	P	4	3
Richard	Kalish	Adaptec, Inc.	P	6	3
Tony	Kwan	Adaptec, Inc.	G	1	3
Lawrence	Lamers	Adaptec, Inc.	A1	7	3
Martin	Soques	Advanced Micro Devices	G	1	0
Bill	Mable	Amphenol Interconnect	G	1	0
Ron	Roberts	Apple Computer	A	6	3
Irv	Tjomsland	Award	O	2	2
Raymond	Liang	CMD Technology	A	4	3
Victor	Siu	CMD Technology	P	1	2
Ben	Chang	Cirrus Logic Inc.	P	4	2
Hale	Landis	Consultant	P	7	3
Paul	Raikunen	Digital	P	7	3
I. Dal	Allan	ENDL	G	5	2
Kazuo	Nakashima	Fujitsu	G	3	3
Robert	Liu	Fujitsu Computer Products	P	3	3
Don	Vohar	Fujitsu Computer Products	A	1	3
Tony	Goodfellow	GSI	P	5	3
Richard	Harcourt	GSI	A1	1	3
J. R.	Sims	Hewlett Packard Co.	P	4	1
Anthony	Yang	Hitachi America Ltd.	P	5	2
Norihiko	Oshita	Hitachi Ltd.	G	1	2
Earle	Jennings	Hyundai	G	1	0
Dan	Colegrove	IBM Corp.	P	7	3
Duncan	Penman	IIX Consulting	O	3	0
George	Blattner	Imation	O	1	0
Pat	La Varre	Iomega	G	2	3
Paul	Jackson	Iomega Corp.	G	1	3
Terry	Miller	Iomega Corp.	G	1	3
Ron	Stephens	Iomega Corp.	G	4	3
Trent	Thomas	Iomega Corp.	G	1	3
LeRoy	Leach	Maxtor Corp.	A	1	3
Pete	McLean	Maxtor Corp.	P	6	3
Gregg	Goldman	Meltzer & Lippe	G	1	0
Darrin	Bulik	Micro House Int.	P	3	1
Jay	Neer	Molex	G	1	0
Evgeny	Berzon	NEC Electronics	G	1	0
Son	Ho	Neomagic Corp.	O	3	3
Shinichi	Kobayashi	Nissho Electronics Corp.	G	1	0
Lance	Flake	O.R. Technology	P	1	2
Christopher	Mayne	O.R. Technology	A	2	2
Joe	Chen	Oak Technology	A2	2	2
Robert	Griffith	Oak Technology	G	2	2
Wayne	Baldwin	Oak Technology, Inc	G	1	2
Robin	Freeze	Oak Technology, Inc	G	2	2
Jauher	Zaidi	Palmchip Corp.	G	1	0
Mike	Christensen	Phoenix Technologies	A	2	3
Curtis	Stevens	Phoenix Technologies	P	5	3
Greg	Elkins	QLogic Corp.	P	5	2
Mark	Evans	Quantum Corp.	P	7	3
Farbod	Falakfars	Quantum Corp.	O	2	3
Eric	Kvamme	Quantum Corp.	G	1	3
James	McGrath	Quantum Corp.	A1	1	3
Paresh	Sheth	SSI	P	1	3
Steven	Peng	Samsung Semiconductor	O	1	0
Andrew	Shu	Samsung, SISA	G	1	0
John	Mangan	SanDisk		1	1
Kenichi	Kojima	Sanyo Electric Co Ltd	P	4	2
Yasuyuki	Suemori	Sanyo Electric Co., Ltd.	A	2	2
Yoshihito	Higashitsutsumi	Sanyo Semiconductor	G	1	2

John	Masiewicz	Seagate Technology	A	1	3
Gene	Milligan	Seagate Technology	P	7	3
Marc	Noblitt	Seagate Technology	A	6	3
Ron	Werbow	Seagate Technology	O	1	3
Stephen	Finch	Silicon Systems, Inc.	G	1	3
Yogi	Schaffner	Silicon Systems, Inc.	A	4	3
Jeff	Cousins	SyQuest Technology	G	1	3
Patrick	Mercer	SyQuest Technology Corp	A	4	3
David	Evans	Symbios Logic	A	3	3
John	Mallory	Symbios Logic	G	1	3
Mike	Winchell	Symbios Logic	G	2	3
Tokuyuki	Totani	Toshiba America Info.	P	5	3
Carl	Bonke	Western Digital Corp.	A2	1	3
Tom	Hanan	Western Digital Corp.	P	7	3
Devon	Worrell	Western Digital Corp.	A1	2	3
Masa	Morizumi	Yamaha	O	1	0
Jerry	Saltzman	Zen Research	G	1	0

T13 Document Database - Enclosure (3)

Doc#	Description	subdir	Pgs	Date	Mailing	Submittor
D0791R4c	ATA-1 revision 4c	/project	66	5/12/94	----	lamers
D0948R4c	ATA-2 revision 4c	/project	111	3/18/96	DM9602	finch
D1153-R8	ATA/ATAPI-4 revision 8	/project	269	12/3/96	DM9701	mclean
D1153-R9	ATA/ATAPI-4 revision 9	/project	276	2/10/97	----	mclean
D1153R10	ATA/ATAPI-4 revision 10	/project	303	3/7/97	----	mclean
D1153R11	ATA/ATAPI-4 revision 11	/project	316	4/1/97	----	mclean
D1153R12	ATA/ATAPI-4 revision 12	/project	312	5/2/97	DM9702	mclean
D1153R13	ATA/ATAPI-4 revision 13	/project	316	5/30/97	----	mclean
D1153R14	ATA/ATAPI-4 revision 14	/project	336	6/26/97	----	mclean
D1153R15	ATA/ATAPI-4 revision 15	/project	328	8/1/97	DM9703	mclean
D1226R1	BIOS Enhanced Disk Drive Specification	/project	23	11/12/96	DM9701	stevens
D1226R2	BIOS Enhanced Disk Drive Specification	/project	20	2/18/97	----	stevens
D1226R3	BIOS Enhanced Disk Drive Specification	/project	25	5/20/97	----	stevens
D1226R4	BIOS Enhanced Disk Drive Specification	/project	33	6/3/97	----	stevens
D1226R5	BIOS Enhanced Disk Drive Specification	/project	46	7/2/97	----	stevens
D1226R6	BIOS Enhanced Disk Drive Specification	/project	48	7/25/97	DM9703	stevens
D2008R7b	ATA-3 revision 7b	/project	194	1/27/97	DM9701	mclean
D96153R3	Ultra DMA	/technical	40	1/22/97	DM9701	evans
D96153R4	Ultra DMA	/technical	24	3/18/97	DM9702	evans
D96156R1	Enhanced security erase unit proposal	/technical	3	1/15/97	----	colegrove
D96156R2	Enhanced security erase unit proposal	/technical	4	1/29/97	DM9701	colegrove
D97100R0	1996 Document Directory	/meetings	3	1/1/97	DM9702	mclean
D97101R0	Minutes of November 13-15 working group	/meetings	6	11/18/96	DM9701	lamers
D97102R0	Register access restrictions proposal	/technical	3	11/14/96	DM9701	schaffner
D97103R1	Signal integrity procedure	/technical	12	6/18/97	DM9703	hanan
D97104R0	No document	----	0		----	----
D97105R0	1394-ATA/ATAPI project proposal	/project	3	1/22/97	DM9701	mclean
D97106R0	SET MAX ADDRESS addition	/technical	1	12/3/96	----	mclean
D97106R1	SET MAX ADDRESS addition	/technical	1	1/29/97	DM9701	mclean
D97107R0	1394 to AT Attachment - Tailgate	/technical	71	1/7/97	DM9701	hanmann
D97107R1	1394 to AT Attachment - Tailgate	/technical	69	2/10/97	----	hanmann
D97107R2	1394 to AT Attachment - Tailgate	/technical	71	3/6/97	----	hanmann
D97107R3	1394 to AT Attachment - Tailgate	/technical	71	4/7/97	DM9702	hanmann
D97108R0	Minutes of 1/22-23 working group	/meetings	7	1/30/97	DM9701	lamers
D97109R0	Minutes of 1/24/97 plenary	/meetings	13	1/30/97	DM9701	lamers
D97110R0	Protocol proposal	/technical	21	1/24/97	DM9701	lavarre
D97111R0	Minutes of Tailgate Ad Hoc 2/12-13/97	/meetings	5	2/13/97	DM9702	mclean
D97112R0	Minutes of February 18-21 working group	/meetings	7	2/21/97	DM9702	lamers
D97113R0	Action items from Tom Hanan	/technical	2	2/20/97	DM9702	hanan
D97114R0	Minutes of Tailgate Ad Hoc 3/10-11/97	/meetings	6	3/11/97	DM9702	mclean
D97115R0	Minutes of 3/18-21/97 working group	/meetings	8	3/21/97	DM9702	lamers
D97116R0	Compact Flash feature set proposal	/technical	12	3/18/97	----	landis
D97116R1	Compact Flash feature set proposal	/technical	13	4/3/97	----	landis
D97116R2	Compact Flash feature set proposal	/technical	14	4/24/97	DM9702	landis
D97117R0	Timing for 44/66 Ultra DMA		""			evans
D97118R0	Derivation of timing for Ultra DMA		""			evans
D97119R0	CHS/LBA calculation rules	/technical	2	3/12/97	----	colegrove
D97119R1	CHS/LBA calculation rules	/technical	12	3/28/97	DM9702	colegrove
D97119R2	CHS/LBA calculation rules	/technical	12	5/19/97	----	colegrove
D97119R3	CHS/LBA calculation rules	/technical	12	6/6/97	DM9703	colegrove
D97120R0	Media status notification support proposal	/technical	24	1/21/97	DM9702	stephens
D97120R1	Media status notification support proposal	/technical	19	5/21/97	----	stephens
D97120R2	Media status notification support proposal	/technical	21	6/2/97	DM9703	stephens
D97121R0	80 conductor cable signal definition	/technical	8	5/21/97	----	evans
D97121R1	80 conductor cable signal definition	/technical	8	6/18/97	DM9703	evans
D97122R0	40 vs 80 conductor test results		""			hanan
D97123R0	Identify device bit for min Standby timer value		""			hanan
D97124R0	Assigned IEEE identification	/rules	1	4/2/97	----	mclean

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D97124R1	T13 IEEE Identifier Registration	/rules	1	4/28/97	DM9702	mclean
D97125R0	Minutes of Tailgate ad hoc 4/10/97	/meetings	4	4/10/97	DM9702	mclean
D97126R0	Advanced power mgmt feature proposal	/technical	2	4/15/97	DM9702	colegrove
D97126R1	Advanced power mgmt feature proposal	/technical	2	5/7/97	----	colegrove
D97126R2	Advanced power mgmt feature proposal	/technical	2	5/7/97	DM9703	colegrove
D97127R0	Minutes of 4/23-24/97 working group	/meetings	7	5/12/97	DM9702	lamers
D97128R0	Update to Annex C proposal	/technical	28	4/22/97	----	evans
D97128R1	Update to Annex C proposal	/technical	26	7/3/97	----	evans
D97128R2	Update to Annex C proposal	/technical	26	7/30/97	DM9703	evans
D97129R0	No document	-----	0		----	-----
D97130R0	Minutes of 4/25/97 plenary	/meetings	11	5/12/97	DM9702	lamers
D97131R0	Letter from Oak patent counsel	/meetings	1	4/18/97	DM9702	milligan
D97132R0	Review copy of X3/SD-3 project proposal guide	/rules	18	10/30/96	DM9703	mcmillen
D97133R0	Minutes of Tailgate ad hoc 5/5-6/97	/meetings	4	5/6/97	DM9702	mclean
D97134R0	PIO response table	/technical	3	5/21/97	DM9703	landis
D97135R0	Solution to command queue race	/technical	5	5/21/97	DM9703	schaffner
D97136R0	Minutes of 5/21-23/97 working group	/meetings	9	5/30/97	DM9703	lamers
D97137R0	SRST protocol for O/Q devices	/technical	1	5/22/97	DM9703	hanan
D97138R0	Proposed modifications to Annex B	/technical	4	5/27/97	----	stevens
D97138R1	Proposed modifications to Annex B	/technical	4	7/1/97	----	stevens
D97138R2	Proposed modifications to Annex B	/technical	4	7/23/97	----	stevens
D97138R3	Proposed modifications to Annex B	/technical	4	7/24/97	DM9703	stevens
D97139R0	Cleanup proposal	/technical	2	6/13/97	----	evans
D97139R1	Cleanup proposal	/technical	2	7/21/97	DM9703	evans
D97140R0	Minutes of Tailgate ad hoc 6/16-17/97	/meetings	6	6/17/97	DM9703	mclean
D97141R0	Minutes of 6/18-20/97 working group	/meetings	7	6/20/97	DM9703	lamers
D97142R0	Auto polling proposal	/technical	9	7/7/97	DM9703	goodfellow
D97143R0	Proposed modification for series termination	/technical	1	7/23/97	DM9703	noblitt
D97144R0	Minutes of 7/23-24/97 working group		""		DM9703	lamers
D97145R0	C/H/S and LBA calculation rules	/technical	2	7/23/97	DM9703	evans
D97146R0	Comments on 1226DT	/technical	2	7/24/97	DM9703	tjomsland
D97147R0	Minutes of 7/25/97 plenary meeting		""		DM9703	lamers
D97148R0	Minutes of 7/22/97 Tailgate ad hoc	/meetings	5	7/22/97	DM9703	mclean
DM9701R0	Mailing #1 1997	/mailings	177	1/30/97	----	milligan
DM9702R0	Mailing #2 1997	/mailings	212	5/12/97	----	milligan