

Monday March 14th

Seating at 13:15

Leon Bruckman volunteered as secretary for today.

Motion #1 : 03/14/05 1:32 pm

Approval of agenda

M: Takefman S: Lemon Unanimous

Mike read the patent letter

Interim meeting: May 17-19 2005, Piscataway NJ

Agenda for today approved at 13:50, unanimously.

Glenn updated on the IETF IPoRPR working group status. The IETF has to approve the new charter, and then Glenn will circulate an updated version of the two IPoRPR documents.

John Lemon reviewed the maintenance requests.

MTG:

MR 0001 – Moved to status B. No objection, 10 voters in the room

MR 0002 – Moved to status B. No objection, 10 voters in the room

MR 0003 – Moved to status B. No objection, 10 voters in the room

MR 0004 – Moved to status B. No objection, 10 voters in the room

Tuesday AM

8:40 Gary Turner volunteered to scribe.

Motion #2: 03/15/05 8:46 am

Approval of agenda

M: Takefman S: Lemon Unanimous

8:50 Mike Takefman presented summary of technical issues.

9:10 Marc Holness presented "Address Handling"

much discussion over the model of a MA.DATA.req/ind internal interface between SAS and .17 MAC, and the effect of possible future movement of SAS into the client.

10:17 Robert Castellano presented "Explicit Header Bit"

some discussion of comparison of the three methods. Point made that the WG should record the rationale for each comparison item when a method is chosen.

11:02 Marc Holness presented "Ringlet Selection Rules"

11:25 break for lunch

Tuesday PM

13:15 Mike Takefman presented responses from 802.1 regarding host support for 802.1Q VLANs.

A network diagram showing all possible combinations of VLAN and SAS enabled hosts on a ring was discussed and commented on. The group debated whether a host can legally use the same MAC address on more than one port.

SAS bypass reasoning was discussed as being desirable for L3 to L3 hosts and methods to signal it on the ring on a per frame basis. Some group members questioned the need for this functionality at all.

A straw poll on agreement that SAS should be available on a frame by frame basis was proposed but not asked.

A straw poll was also proposed for whether the extended frame format should be used by all frames sent via the SAS sub layer but not acted upon.

Topology DB solution will require a CAM to handle and will not work on a per frame basis. The extended bit method wastes valuable free header resources. Presenter supports using a multicast DA address to signal SAS.

Multicast scoping methods were discussed and the presenter offered up a modified the InitialTTL function using the SAS database.

Recommendations:

- SAS always uses extended frame format.
- SAS is invoked by a MA_UNITDATA.request with the MAC configured for SAS. Allows non-SAS traffic to use MA_DATA.request.
- SAS does support the aliased MAC/VLAN topology. SAS determines flooding requirement (if it's not in the SAS DB flood it)
- SAS DB holds the multicast snooping information and is accessed as part of InitialTTL() to do actual scoping.

14:41 Marc Holness presentation on SAS document structure

The following clauses in the current standard will need some amount of modification: clause 8 (MAC service and reference model), clause 7 (MAC control data path), clause 11 (Topology, discovery and protection) and Annex D (SNMP MIB definitions). An additional appendix (L ?) to describe SAS functionality and methodology should be added. Audience suggested instead naming it clause 14 to be more normative in nature than an appendix.

John Lemon suggested adding some text into clause 5 (Architecture Overview) as well as any new terms or abbreviations to clauses 3 and 4.

15:20 John Lemon continued his review of maintenance requests

MR 0050 – A duplicate of a previous MR.

MR 0051 – Moved to status R

MR 0052 – Moved to status R

MR 0053 – Discussed in detail but no resolution reached.
MR 0013 – Moved to status R with at least one outstanding issue to be looked at again tomorrow.
MR 0015 – Deemed an enhancement and moved to status J.
MR 0016 – Moved to status CB, no objections, 10 voters present. This MR is superseded by MR 0013.
MR 0017 – Moved to status R
MR 0026 – Moved to status B, no objections, 10 voters in the room.
MR 0027 – Moved to status R. Concerns whether this is an error or not.
MR 0028 – Moved to status R and will be reviewed tomorrow.
MR 0039 - Moved to status R and will be reviewed tomorrow.
MR 0040 - Moved to status R and will be reviewed tomorrow.
MR 0041 - Moved to status R and will be reviewed tomorrow.
MR 0042 - Moved to status R and will be reviewed tomorrow.
MR 0043 - Moved to status R and will be reviewed tomorrow.
MR 0052 - Moved to status R and will be reviewed tomorrow.
17:00
MR 0005 – Moved to status B, no objections, 8 voters in the room.
17:25 Meeting adjourned for the day.

Wednesday, March 16, 2005

Wednesday AM

[Motion #3 : 03/16/05 8:46 am](#)

[Approval of agenda](#)

[M: Takefman](#) [S: Lemon](#) [Unanimous](#)

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- Reviewing of requirements list commenced.
- Requirements number 0 to 12 were all unanimous. We stopped at 12.
- Started MR section of agenda.
- MR 45 was approved unanimously and has a new status of ready for ballot.
- MR 46 was approved unanimously and has a new status of ready for ballot.

- MR 47, 48, and 49 have changed status to T (awaiting technical experts). Acknowledgement of problem. Need to figure out a good solution moving forward.
- MR 30 was approved unanimously has a new status of ready for ballot.
- MR 14 was a disagreement on whether it is an error or a feature enhancement.

Wednesday PM

- Brainstorming session to define maintenance requests
 - o Distinguish an error from a feature request
 - o Lots of debates on the nuance of errors, and a list of interpretations were compiled by Mike and will be made available on the website
- More debate on the requirements doc:
 - o #14 Approved the existing definition
 - o Held a vote on #15, #16, #17, and #20:
 - #15 Passes with Y:6, N:2, A:2
 - #20 Passes with Y:9, N:0, A:1
 - #16 Fails with Y:3, N:3, A:4
 - #17 Fails with Y:2, N:4, A:4
 - o The runoff election between #15 and #20 yields Y:3 for #15, Y:6 for #20, so #20 is chosen as the actual requirement.
 - o #21 passes unanimously
 - o #19 fails as #21 precludes it
 - o #18 passes – it implies no change
 - o Marc wants clarification on layering issues:
 - Believes that the SAS is a shim layer within the MAC
 - After a long debate about whether 17b should support VLAN awareness in the context of link security, we created a new requirement #22 and will attempt to resolve in the future
- Layering discussion
 - o Marc points out that the interface to the SAS is the same on both sides, and that it reflects the definition of the MAC external interface and the ISS. He is concerned that the current model limits possible future shims.

- Peter counters that if the SAS function is moved out of the MAC then there's no need for additional functionality or interface definition in the MAC or at the SAS.
- Mike requests both Peter and Marc to give a tangible definition of their proposals and what they would mean in practice.

Thursday, March 17, 2005 AM

Motion #4 : 03/17/05 8:58 am

Approval of agenda

M: Takefman S: Lemon Unanimous

- Mike presented critical technical decisions – Frame Formats, SAS Indications, Service Interface, Multicast Scoping, VLAN Corner case, initial Document structure, Ringlet Selection, Pruning rules
 - Discussion on various alternatives for service interface – SAS configuration parameter - always on, off, frame-by-frame.
 - Discussion on Multicast Scoping database – In general, SDB to contain separate tables– static unicast, static multicast, dynamic multicast or is there a single table?
 - Peter prefers two separate tables – Multicast and unicast
 - Marc prefers alignment with 802.1D
 - Decision to defer this decision based on straw poll
 - No other additions proposed to the list

- Technical Decisions
 - Frame Formats --
 - SAS frame transmissions will always use the extended frame format
 - Mike prefers this due to consistency, ease
 - Peter comments about overhead and various local and remote scenarios.
 - Passes with Y:9, N:0, A:0 --Time 9:45
 - 802.17b will support SAS or non SAS service on a frame by frame basis
 - Passes with Y:7, N:2, A:0 - Time 9.43
 - Frame format/SAS learning eligibility
 - Topology DB method: Y:2, N:6, A:1 Time – 10.01

- Header bit method: Y:3, N:6, A:0 Time – 10.01
- Reserved group address method: passes with Y:8, N:1, A:0 Time – 10.02
- Service Interface
 - An optional parameters sas_enable will be defined in MA-DATA.request to turn on SAS processing for this frame Passes Y:9, N:0, A:0 Time – 10.05
 - A MAC configuration variable will be provided to set the default value of the MA-DATA.request “sas_me” parameter (sas/non-sas) Passes Y:9, N:0, A:0 Time – 10.24
 - Action for Marc to see if the existing maintenance request for handling default for strict/relaxed can be resolved in a similar way.
- Duplicate MAC in different VLAN Corner Case
 - 802.17b should support the VLAN corner case when SAS is used (and VLAN aware) see presentation mlt_SAS_01.pdf for more description. Passes Y:9, N:0, A:0 Time – 10.41
 - 802.17b will not support the VLAN corner case when SAS is not used. Passes Y:9, N:0, A:0 Time – 10.42
- Document structure
 - The initial draft shall follow the document structure as defined by mh-DocStruct_02.pdf. Passes Y:9, N:0, A:0 Time – 10.46
- Layering
 - The layering in the initial draft will be – SAS associations database operations as separate state machines. Passes Y:9, N:0, A:0 Time – 11.08
- Ringlet selection
 - The initial draft will use the ringlet selection rules as defined by the mh_RingSelect_02.pdf. Passes Y:7, N:0, A:2 Time – 11.10
- Pruning rules
 - Initial draft will include the following pruning rules
 - Full pruning. Passes Y:9, N:0, A:0 Time – 11.11
 - Optional Partial Pruning by ring station address. Passes Y:9, N:0, A:0 Time – 11.18
 - Optional partial pruning by ring station address + FID. . Passes Y:9, N:0, A:0 Time – 11.19

- Closing plenary

Motion #5 : 03/17/05 11:40 am

Approve the Requirements document (Req_17b_03-16-05_01.xls) for P802.17b

M: Jones S: Lemon Y:9 N :0 A :0

Motion #6 : 03/17/05 11:42 am

Approve the technical selections for P802.17b as found in (mlt_technical_01.pdf).

M: Takefman S: Holness Y:9 N :0 A :0

Motion #7 : 03/17/05 11:43 am

Move to approve the minutes of the following sessions or teleconferences: November 2004, December 2004, January 2005, February 2005.

M: Takefman S: Lemon Y:9 N :0 A :0

Motion #8 : 03/17/05 11:51 am

Move to hold an 802.17 Interim Session at IEEE Piscataway Headquarters on May 17/18/19 and to authorize the group to progress the 802.17b project and maintenance task group activity.

M: Lemon S: Jones Y:9 N :0 A :0

Motion #9 : 03/17/05 12:01 pm

Move to hold an 802.17b conference call on Thursday Apr 21, 2005 from 12 noon ET to 3pm ET and 4pm to 7pm ET.

M: Holness S: Jones Y:9 N :0 A :0

Motion #10 : 03/17/05 12:03 pm

Move to hold an 802.17b conference call on Tuesday Jun 21, 2005 from 12 noon ET to 3pm ET and 4pm to 7pm ET.

M: Holness S: Jones Y:9 N :0 A :0

Motion #11 : 03/17/05 12:05 pm

Move to authorize the P802.17b editor (Marc Holness) to create P802.17b D0.0 based on the technical decisions made at the March Plenary Session.

M: Turner S: Sultan Y:9 N :0 A :0

- o Mike appoints Marc Holness as the editor of 802.17b.
- o Motion 12– Move to adjourn --

Thursday, March 17, 2005

Thursday PM

13:40 John Lemon continued his review of maintenance requests

MR 0012 – John Lemon proposed addition to proposed resolution to (1) clarify that the bandwidth is reported in units of bytes per ageCoef agingIntervals and (2) that the encoding include all data and control traffic sent A0 but does not include fairness and idle traffic. Discussion of why fairness frames are excluded: fairness frames travel only single hop, including fairness frames in the encoding would significantly overcount reported bandwidth. MR 12 was approved unanimously and has a new status of ready for ballot.

MR 0019 – Was noted that problem is specific to rate-based congestion detection. MR 46 was approved unanimously and has a new status of ready for ballot.

MR 0023 – JL indicated that this problem would cause sendC to be only occasionally issued. MR 23 was approved unanimously and has a new status of ready for ballot.

MR 0024 –MR 24 was approved unanimously and has a new status of ready for ballot.

MR 0025 –Noted that this problem occurs only in the case of shaper-based implementation. Agreement that undefined 'NORM' is a problem. Status changed to T (awaiting technical experts). Need to determine appropriate solution moving forward.

MR 0037 – MR 0037 was approved unanimously and has a new status of ready for ballot.

15:10 Completed review of items identified by attendees as needing immediate attention. Start of review of items previously discussed but not resolved.

MR 0013 – Approved unanimously and has a new status of ready for ballot. Glen Parsons and others to review proposed MIB changes to for preferred method of implementation.

MR 0016 – Superseded by MR0013.

MR 0027 – Not ready for ballot. Unclear whether this is error or request for enhancement. Mike Takefman to propose alternate remedy.

MR 0028 – Not ready for ballot. Attendees wanted more time to consider resolution.

MR 0028 – Not ready for ballot. Unclear whether this is error or request for enhancement.

MR 0040 – Discussion that rprifCurrentStatus actually names currently active defects. Decision to clarify this in explanation rather than change name. Add missing defects after defects currently named in the MIB entry.

MR 0041 – Not ready for ballot.

MR 0042 – Not ready for ballot.

MR 0043 – Not ready for ballot.

MR 0052 – Not ready for ballot.

19:56 Maintenance portion of meeting completed

Motion 12 – Moved by John Lemon, Seconded by Robert Castellano, passes unanimously Y:7, N:0, A:0 Time – 20:00

Motion #12 : 03/17/05 8:00 pm

Adjourn .

M: Lemon

S: Castellano

Unanimous
