IEEE 802.1 Minutes, July 2006

Minutes taken by Allyn Romanow,
with help from John Messenger and Frank Chao

Pre-Meeting, Monday AM July 17, 2006

No notes

Plenary Meeting, Monday PM July 17, 2006

Website introduction – Tony Jeffree
Voting Membership Rules – Tony Jeffree
Voting on 802.1 documents at Task, Working Group and Sponsor ballot – Tony Jeffree
IEEE Patent Policy – Tony Jeffree. No responses were received.
Copyright and confidentiality statements on presentations not allowed – Tony Jeffree
Opening Remarks – Tony Jeffree

> Future interim meetings: York for September is confirmed, January possibilities include London but alternatives are sought, May might be in Korea.
> 802.1h (bridging of Ethernet) requires a revision and it is intended to discuss a draft PAR this week. Should it change its title and become a standard?
> Std 802 also needs reaffirmation or revision (there are 802a and 802b as well)
> Link aggregation: currently an 802.3 standard; Bob Grow will propose to 802.3 this week that it should move into 802.1.

Tony Jeffree- Exec committee notes

Exec Committee

> Budget problems for 802
> There is an Ombudsman for 802
> Steve Mills – what's happening in China. IEEE establishing something there. Maybe an office
> Developing SW to help with processes, attendance in particular
> Pat Thaler, Training www.ieee.org page. Newcomer slides. For IEEE new members.
> Issue with numbering of standards with IEEE
>> Now - amendments lower case, new are higher case
>> The more general scheme is 802.1A would be 802.1.1
>> We do not want them to change existing standards names
>> But for new base standards, we probably will need to use numbering only
>> Tony wants feedback on whether people care about new standards
>> It's more maintenance for them to have different systems
>> Also, they want to change the way revisions are numbered
>> Want to make it consistent across groups

Meetings that will happen this week
- o Tutorials – Monday 7:30-9 Congestion Notification, on 802 website

SC6 – ISO/IEC JTCI - IEEE TAG for SC6 could use more 802.1 participation. Geoff Thompson chairs

May split policies and procedures. Have two docs: one for policies and procedures that will stay the same and ones that will change over time

Arch meeting report
1. Kevin Stanton presentation on timing. Useful. What we should do in 802 to support consumer electronics generally.

Some appeals, they are public. Someone is appealing the rejection of his PAR and closure of 802.20

Presentation about using ITU-T for standardization, IEEE is a sector member. We need technical liaison.

Mick Agenda

Added item- discussion of coordinated management approach

Mick - discussion of PARs. How to manage so much work in the group. Going to impose restrictions on what enters, must be highest quality. Right now, we do a standard every 9 months. New groups take 3-4 years to produce a standard.
Otherwise would have to fracture into more dot-groups. More on this later, with a proposal.

Michael Teener went over agenda for AVB.

Pat Thaler reviewed agenda for CM.

Hiroshi Ohta ITU SG-15 liaison report.

Bert Wijanen, IETF Liaison

MBONED wants our opinion. Norm will work on this and group review his proposal.

Lars Eggert, IETF TCP area director.

Congestion Notification.
How link level congestion control interacts with higher level, TCP, SCTP or DCCP.
Wants to add to PAR a phrase saying CM will coordinate with IETF
General agreement for this

Mick Seaman – on PARs, slides

Got comments that we are spending too long on deciding whether to do PARs.
Mick wants to make sure that anything we get a PAR for will turn out successfully

Curently we have related specs being worked on simultaneously- complex
802.1 perspective on the standards development process:
Neither a research project nor a product project
Take something you already know a lot about, get agreement on details, so can
interoperate.

Nurit Sprecher VLAN Cross Connect, slides

- Mick – has received both positive and negative feedback on this from the group. The next step would be to have a clear PAR proposal for the November Plenary. Would like to have a resolution to either take the next step or close down the effort.
  Is there sufficient number of people who will actively contribute? 7 people said they would. concerned .1 won't have horsepower to execute
- It will be necessary to increase the number of positive contributors, and build consensus because PAR approval requires 75% of the entire voting group
- Technical questions:
  - This is a different paradigm than .1Q, so it shouldn't be an amendment to Q, should be a separate relay spec. Then divide the VLAN namespace, as shown in the diagrams.
    Ans- Won't work because want to employ both methods simultaneously
  - Calculating 2 bits together to do lookup is highly undesirable, builds in a huge constraint
  - Could use VLAN XC in the areas described, but is it necessary? Alternatively don't start encaps at customer premises, .1AD extends back into the network
  - when couple VLAN tags together, affect more than showed. Extract info from 2 TAGS, when goes thru egress rules, have 16 million egress port vector, 16 million VLANs that can or not go thru. A lot more hassle than current 4k.
  - Why not build the box they want and get an Ethertype? Use a bigger tag. Not 1-Q Ethertype. Define how this works. Can put it in a box with a Q-bridge. Email to the mailing list on this suggestion.
  - This project competes directly with 802.1ah. Should be a proposal in .1ah. No room for this cloud. Do either MPLS or .1ah. Architecturally no room for this
  - There is no problem statement for this work. It appears to be a different methodology, but it's not clear that the problem can't be addressed by existing technology
  - This is the same as what MPLS has already done.No reason for us to tackle the problem that MPLS has solved. This is the same as MPLS with 4 more bits in the tag than MPLS has.
- Pro- There is customer demand for this solution. Is in favor of Nurit's proposal. There's a market call for this. It is deployed in some areas today.
- Con- Does not fit cleanly in the architecture. Nothing operates on 2 tags.

- A spontaneous motion was made to spend no further time on VLAN XC

- o Debate on the notion.
- o Support for work on this. There is a market interest. Nurit has done homework to identify people's interest. Wants to follow Mick's suggestion to develop something for the next plenary. Too soon to put closure.
- o Against: .1ag – would not be able to work with this. Would have to re-do .1ag.
- o need a 75% vote to pass motion, the rules, policies and procedures. Limited to voting members of .1, including those who have gained voting at this meeting.
- Motion fails.
- Mick- offline work will be done. Will allocate time for this in November Plenary meeting. There should be before Nov. a well worked out draft PAR. Finish PAR at the following meeting.
- Next time needs 75% vote is needed to get the project through.

Tuesday AM July 18, 2006 – Separate tracks, Security

Security. 802.1AR Mike Borza, resolution of Comments, first Task Group ballot

Discussion of domain of trust – secure within domain of use, domain of issue, etc.

Discussion of using RSA or ECC, which has IP issues. Decided to make RSA the minimum required and to investigate the IP issues around ECC.

Tuesday PM July 18, 2006, Security

802.1af Mick Seaman

Resolution of comments for first Task Group ballot

There is a lot of work to do, and some questions are being deferred until the document is updated, for the interim meeting.

- Wake on LAN

This is an example of more general situation.
Mick made a proposal for a possible solution, unauthorized VLAN, which was discussed in detail. As there was no consensus, Mick will write up something for comment.

The goals are:
1. not to have a miscellaneous helper function floating around in layers
2. to solve unauthorized VLAN problem, of which this is an example

3. to have a range of packets with minimum apparatus in the bridge

Must also cover more elaborate scenarios, provider networks or virtualized networks
Want capability going the other way as well, for alerts

We don't have a good spec for LLC demux , demuxing.

Controlled port is hooked to bridge relay, and the uncontrolled port isn't

Weds AM July 19, 2006, Security

Mike Borza 802.1AR resolution of comments continued

- Entities, like DevID are not clear in the document. Need consistent terminology for entities and functions.
  Discussion of term DevID.
  Tbd – in next draft
- Discussion of whether extensions outside those specified in .1AR are allowed in the optional section of the packet. Issues include interoperability versus desire to accommodate need to carry other information with DeviID. Deferred for discussion at next meeting.

Mick Seaman 802.1af, key management
- .1af new draft will be produced before the Sept interim meeting to fill in the pieces.
- Gap between EAP and MKA needs to be addressed
- There will be an offline discussion on MKA -- KSP/LKS combination
- Any other discussion of missing chunks will take place via email

Mick Seaman Status of .1AE
Still going thru IEEE editing process
One month away from receiving complimentary copies, via electronic pdf

Weds PM July 19, 2006

Mick Seaman resolution of .1aq comments on first Task Group ballot

Mick Seaman – introduction of DDCFM PAR
Went through the proposed PAR and 5 criteria. Not much discussion

ITU Liaison

2. Ethernet Rings, Glenn Parsons

802.17's response to ITU was vetted
802.1 multipoint protection
802.1aj (TPMR) a failure signalling message applicable to Ethernet rings
802.1aq (shortest path bridging) may be used for Ethernet rings

3. Ethernet Connection Management

- o 12 bit and 24 bit translation, where 24 bit is concatenation of VLAN tags
- o Config of VID/MAC-tuples (called Provider Backbone Transport)

Mick suggests that there are two questions here:
1. Are we considering these?
2. They think these aren't compliant with 802.1

We are not considering these.
Discussion of VID and 12-bit
Discussion of 24-bit. Mick's email of July 19
What happens to our service interfaces if do this VLAN concatenation?
Use of Ethertypes
Mick and Tony will craft some text and review it with the group on Thursday, for liaison resolution

Thursday am July 20, 2006

Paul Botorff, .1ah continuation of resolution of comments
All comments but one are resolved

Norm Finn .1ag continuation of resolution of comments
Discussion of MIB

Paul Congdon – proposal for Maintenance of .1AB, LLDP
BTW, TPMR, .1aj is now a bridge
Start PAR development – should it be a revision or an amendment? Revision opens up the whole document
Tony prefers doing it as a revision, no opposition
There will be a motion raised in the plenary this afternoon

Tony Jeffree – Scope of multicast addresses
- For .17, 802.3 Pause becomes a MAC specific address
  Will have a motion this afternoon. Needs to be discussed in 802.3
  Addresses specify the scope, limits of propagation, not what the protocol is
- AVB, 1588 use LLDP address. Will email a response to 1588 chair

Dan Romascanu, MIB coordination and integration among 802.1 projects, notes by Frank Chao

- Editorial Level: updating the same level information. Section 12 for all the documents should talk about SMI.
- Sub-sections should be followed. SNMP frameworks, relationship to the other MIB modules.
- We should divide into 2 parts- 1. the LMI management information should be put in a section. 2. The management MIB, SNMP related development should be in another section.
- We need to review the current out of date management objects information.
- Is there any formalized approach to write MIBs? Discussion.
- Suggest to use his experience in .1AE an example with C++ modularization model to formalize the LMI and management information.
- Security consideration section in the 802.1 documents. Suggestion is to follow the way in the IETF. A standard template should be provided for the general security issues.
- MIB modules: should provide reference link to the MIB modules (text file) in the WG ballot document if the MIB modules are available. In the early draft of the MIB modules, the content of reference clause in the MIB is not so important. The name of MIB objects is pretty self-explained what management information is talking about.
- .1af, .1ar, should start working the MIB or the management ability or information in early stage to think more about the security related management information.
- SMIv2 is not protocol dependent.
- 802.1 uses MIBs in most of the standards.
- Discussion about OID assignment for new MIB modules? Probably someone should take over to manage the OID assignment. Each WG has the responsibility to take care of its own arc (node).

Plenary Meeting, Thursday PM, July 20, 2006

Tony plenary, slides available
- Review of IP policy
- Future meetings –
  where should the January interim be?

Vote go to Monterey? 31
Go to London with rest of 802 groups? 10

May interim – Geneva? Korea?
Geneva is an invitation from ITU-T, collocated with SG15
IEEE SA would like to ensure that IEEE 802.1 has a good relationship with
Vote ITU-T May 2007- 17
Vote Meet in Korea -7

- Reaffirmation on standard 802 –
Anyone disagree? None

Task Group Reports

AVB

▪ *John Fuller, see slides for review of topics*

No final choices have yet been made. Small faction thinks they should ignore 1588 and
do it themselves. Need to resolve.

Dirceu Cavendish – 802.1 and 802.11 timestamp support, see slide

- In 802.3, Going to define LMI support for timestamp
- In 802.11, several presentations were given

Pat Thaler, Connection Notification, see slide

- They met one day, had presentations on simulation results
- Decided they are open to new proposals if they come in by November, otherwise
they'll be settled on the existing proposed solution, BCN
- IETF request to change the PAR- added statement to the objective not the PAR
- Want to start a PAR on transmission selection- was talked about in AVB as well.
Need to coordinate
- Review of .1au PAR, see slide
  o Don't expect congestion control to be used for multicast traffic, just
    unicast

Mick Seaman, Security and Interworking

- DDDCM – PAR
- .1ah to Working group ballot
- .AR not going to ballot before interim mtg in Sept.

- MAC service definition needs re-doing
- .1Q Tony's draft before meeting was a clean up, but no further

Tony Jeffree, slide on current workload

16 PARs that we know of by end of year. Only 2 are near closure

Motions, see Tony's slides

- Reserved Addresses - Discussion and vote on
  Use one of the reserved for future standardization, *04, media access method specific, give it a generic name
  01 and 04 would be relabeled media access method specific
  Provide a guideline associated with this table
  .17will use either of these
- Mick- went over in detail letter to ITU-T SG15 liaison to respond to their question concerning "Ethernet Congestion Management"
- Have made it clear that 802.1 believes that double tagging is out of the question. Motion to send letter to IETF, DSL Forum, and MEF as well as ITU

Attendees

Bora	Akyol	Nobuyuki	Enomoto
Hugh	Barrass	Don	Fedyk
Davide	Bergamasco	Felix Feifei	Feng
Jan	Bialkowsky	Norm	Finn
Rob	Boatright	John	Fuller
Jean-Michel	Bonnamy	Edna	Ganon
Mike	Borza	Geoffrey	Garner
Paul	Bottorff	Mike	Geipel
Rudolf	Brandner	Anoop	Ghanwani
Robert	Brunner	Franz	Goetz
Dirceu	Cavendish	Nitrin	Gogate
Frank	Chao	Mark	Gravel
Joseph	Cheng	Paul	Gyugyi
Taesik	Cheung	Steve	Haddock
Wing	Cheung	Takafumi	Hamano
Jaehun	Cho	Takashi	Hasegawa
Jaihyung	Cho	Brian	Hassink
Jin Seek	Choi	Brian	Hausauer
Luke	Chong	Asif	Hazarika
George	Claseman	Qingyi	He
Paul	Congdon	Guy	Hutchison
Uri	Cummings	Romain	Insler
Zhusheng	Deng	Raj	Jain
Linda	Dunbar	Vipin	Jain
Lars	Eggert	David	James
Hesham	Elbakoury	Tony	Jeffree
David	Elie-Dit-Cosaque	Pankaj	Jha

Thomas	Joergensen	Karen	Randall
Michael	Johas Teener	Robert	Roden
Seong Soon	Joo	Josef	Roese
Keti	Kilcrease	Allyn	Romanow
Jong Hee	Kim	Dan	Romascanu
Tae-eun	Kim	Gady	Rosenfeld
Yongbum	Kim	Jessy V	Rouyer
Marc	Kimpe	Gilles	Roy
Mike	Ko	Eric	Ryu
Raghu	Kondapalli	Ali	Sajassi
Bruce	Kwan	Hussein	Sallam
Kari	Laihonen	Joseph	Salowey
Joe	Lawrence	Panagiotis	Saltsidis
Yannick	Le Goff	Sam	Sambasivan
John	Lemon	John	Sauer
Heng-Hsin	Liao	Mick	Seaman
Meg	Lin	Koichiro	Seto
Men	Long	Curtis	Simonson
Jeff	Lynch	Gopi	Sirineni
Tom	Lyon	Nurit	Sprecher
Dan	Maltbie	Kevin B	Stanton
Tyler	Marcotte	Bob	Sultan
David	Martin	Richard	Sun
Tom	Mathey	Muneyoshi	Suzuki
Dave	Mayne	Francois	Tallet
David	Melman	John	Terry
Menucher	Menuchery	Sashisekaran	Thaigarastan
John	Messenger	Pat	Thaler
Gusat	Mitch	Fred	Tuck
Dinesh	Mohan	Manoj	Wadekar
Anton	Monk	Brian	Weis
Bob	Moskowitz	Bert	Wijnen
Wayne	Mueller	Ludwig	Winkel
Don	O'Connor	Jeff	Wise
Mark	Odani	Chien-Hsien	Wu
Karen	O'Donoghue	Zong Liang	Wu
Hiroshi	Ohta	Chongho	Yoon
David	Olsen	David	Zelig
Don	Pannell		
Glenn	Parsons		
Ajay	Pathak		
Neil	Peers		
Joe	Pelissier		
Haim	Porat		
Charles	Qi		
Ananda	Rajagopal		