IEEE 802.3as - Frame Expansion

January 2005 Interim

Meeting opened at 9am, Jan 12, 2005

Chair: Kevin Daines, World Wide Packets Secretary: Glenn Parsons, Nortel Networks Attendees: 6 people at opening, peaked at 15

Intro

- We are now a Task Force with an approved PAR.
- New website will be www.ieee802.org/3/as
- The chair reads the IEEE-SA patent policy from the bylaws
- Chair overviews process and timeline
 - We should complete at least at the same time as 802.1ad Provider Bridging
- At the March closing plenary we intend to decide the frame size

Clause 3

- Do we need the padlock in the figure?
 - o It is not clear, perhaps confusing with security
 - Describe in text and show
- maxValidFrame
 - o Should this be in clause 3? Or should it be 1500.
 - o Agree to change to 1500.
- Clause 3.2.7
 - o Remove last sentence,
 - o Remove last 3 words of new last sentence
 - o The particular implementation -> this implementation
- Fig 3-3 changes
 - O How do we deal with minimum size frames? When we added Qtag we reduced the minimum MAC client data + pad from 46 to 42.
 - o This may complicate the untagged state machine.
 - o Force the 42 case to only apply to Qtag? Yes, this allows a 64 octet Q tagged frame.
 - o Choose the best engineering solution. 46 applies to all new prefix/suffix.
 - o Straw poll with 4 options
 - 1. >=64 + envelope 2
 - 2. #1 with Qtag exception 10
 - 3. #1 with prefix exception 3
 - 4. No minimum 0
- Clause 3.5 title changes
- Should we go to the press or analysts with an educational campaign?
 - o There is already a PAR PR in the works...

Clause 4

- Half or full duplex
 - o Do both with cautionary text.
 - o Where does that go? Put here, perhaps sprinkle it in repeater clause too.
- FCS?
 - o Have confirmed 4bit manhcester to 9000 octets Pat
 - o Two 9 bit bursts up to 1625 bytes in GE??? Hugh
 - o 8 bit error goes farther Pat
 - o Bottom line, this is not a concern
- Frame size
 - o Should grandfather 'Qtagged'
 - o Caution ensure that there are no restrictions
- Constants
 - o Grandfather all Qtag references
 - o Retain current data & DataValue definition to include prefix & suffix
 - O Add new 'basic data' such that data = basic data + prefix + suffix
 - o Will this be an issue for the MAC client interface in Clause 2? Likely not, but we should check.

Issues

- Layering where does MACsec fit
 - o This is not our job
 - o Perhaps discuss in joint plenary with 802.1
- Tag ordering
 - o Out of scope for 802.3
- Reserved space
 - No need to include this, we should ask for an Ethertype if we want to do this.
- Management attribute
 - o Number value?
 - o Enumerated list?
 - o Straw poll
 - No attribute 3
 - Enumerated list 6
 - Bit string -0
 - o How do we get .3 to review this before WG ballot?

Joint meeting - 802.3as/802.1

- Review PAR & objectives
- Frame size options
 - Why don't we not specify a value? That is, tell the chip vendors to be flexible.
 - o Agree that 2000 is the least offensive option.

- Minimum frame size
 - o Do wrappers pad out to 64?
 - o .1AE has a frame length tag to locate the suffix
 - o In fig 3-3, pad should be below suffix
 - o There should be no set maximum since we cannot enforce it Norm
 - o We cannot leave the lid off the box Geoff
 - o Cannot enforce prefix & suffix sizes so don't Norm
 - o We have to include some pointers Hugh
- Will have another joint meeting in March

Closing

Motion #1

- Adopt 'proposed changes to clause 3' daines_1_0501.pdf as the basis for 802.3as/D1.0 with the following changes:
 - o Remove padlock icon
 - o Move the pad field after suffix
- Move: Daines Second: Thaler
- Discussion
 - o Move grandfathered material to an annex?
 - o Lets document and comment against it.
- Vote: Y-8 N-0 A-6

Motion #2

- Adopt 'proposed changes to clause 4' parsons_2_0501.pdf as the basis for 802.3as/D1.0.
- Move: Parsons Second: DVJ
- Discussion
 - o Should we put a number here? 2000 is rationalized by having space in the 2048 buffer
 - o What is MAC client data? Does it include the PAD or not?
 - O Discussion on Fig 3-1 and that we should not put all the prefix/suffix details in the Pascal
 - o Agree that no changes to clause 2
 - One frame format with informational notes/figures on Qtag and envelope. New max dataValue is 1500/1504/1982
 - New reluctancy to motion anything at this stage. Prepare an unapproved draft.
- Withdrawn

Motion #3

- Reconsider motion #1
- Passed by acclamation

Motion #4

- Editor to create D0.1 for distribution and review prior to the March meeting. This will be an 'unapproved draft' with no official status.
- Move: Diab Second: Grow
- Discussion
 - o Drop dead is at least 1 week before
- Vote: Y-9 N-0 A-2

Editor

• Appoint Glenn Parsons as editor

Motion #5

- Send communication statement to ITU-T SG15
- Move: Barrass Second: Thaler
- Vote: Y-5 N-0 A-1

Future meetings

- March 13-18 Atlanta
- May 9-13 Barcelona
- July 17-22 San Francisco

Adjourn at 5:45pm