

IEEE 802.1 Minutes, January 2008

Opening Meeting, Monday AM, January, 28 2008

Administrative and Agenda – Tony Jeffree

IEEE Patent Policy – Tony Jeffree

The call for patents was made and no one spoke up

The required five slides were shown and the patent policy was reviewed

Future interim meetings – Tony Jeffree

May 2008: Israel, week of 12th, letter of invitation and security form will be provided to ease exit screening

Sept 2008: ChengDu, China, week of 15th, joint with 802.3, see Linda Dunbar if you need an invitation letter to get business visa

Jan 2009: ideas/offers solicited

Resilient Rings idea discussion - John Lemon, Norm Finn

Forwarding process presentation - Norm Finn

Identifying issues with queuing in the current 802.1 model

Issues with 802.1Q revision – Glenn Parsons

TG agendas – Tony Jeffree

IW: comment resolutions (ah, ap, aj, ak, ab, ay) first, then new work at end if time.

Security: af and ar

AVB: review of assumptions, AS draft review, timestamp passing interface between 802.3 and 802.11y and 802.1AS, Qat draft review, Qav comment resolution, joint meeting with 802.11, develop PAR for profile network

DCB: Qau, Qaz transmission selection, work on proposed priority flow control
PAR

Monday PM, January, 28 2008

In the afternoon each of the task groups met separately

Security Task Group

Review of draft 1.8 – Mick Seaman

Hot topic is network advertisement

Review of what changes from the previous draft

Discussion at last plenary on group addresses and scope

Motion was probably wrong need to correct

1.8 now is consistent with .1ab

MKA with regard to different crypto algorithms

Algorithm agility parameter now in the draft

Don't need to change spec if a new algorithm comes along

Clause 11

New sub-clause for PAE transmit and receive

How to manage virtual ports and where to the management objects live

Clause 12

Now basically a reference diagram and pointers to the rest of the document

Network advertisement

Simplification of Joe's proposal and we need review and sorting through

Management Stuff

Clause 11.9 provides pointers to the rest of the text

Figure 11.3 Page 104

Herald – entity to handle advertising within the domain of 802.1af

Discussion of the relationship of virtual ports to physical ports and the requirements and needed information to managed

MIB discussion, where are we and what are the next steps Clause 13

What to do with the MIB

Keep old MIB and leave it EAP related

Create new MIB that handles PAE stuff

Or

Map the old MIB to the new MIB and leave for historical reason so folks can follow the trail to the new MIB

Of course, new folks will need to implement two MIBs

Because there is not an EAP MIB we will probably need to keep the current MIB to provide some required and helpful information

Probably want pre-configured virtual ports

Discussion about Advertisement and its requirements

Tuesday AM, January, 29 2008

Internetworking Task Group

Call for patents and review of the patent policy – Steve Haddock

Ballot Comment Resolution of 802.1ak Corrigendum – Tony Jeffree

Discussion about should or should not the version number in the protocol be changed

Since the protocol is broken and no one has implemented the protocol it is not an issue to leave the protocol version as is

The consensus is the version number should stay at zero

There can be no working implementations deployed so this is not an issue

EndMark optimization

It is too late to make this change

Ballot Comment Resolution of 802.1AB-Rev – Tony Jeffree

Discussion of Mick's ballot comment concerning a model of an entity to represent an 802.1AB in such a way that use, management, and control can be described in the document

Mick's proposal will be a basis for the next draft and then folks can sort through the issues with words in the draft

802.3 has asked a couple of questions that we need to deal with

802.3at DTE Power Enhancements is looking to use 802.1AB
If 802.3 adds a subtype can it be referenced in 802.1AB?

Discussion

The issue is logistics

802.3 needs/wants to understand where and how this needs to be done

We can reserve a subtype and create a pointer to the 802.3 document

We could remove the 802.3 annex and simply give it to 802.3

Is there issues with the 802.3 MIB?

802.3 has not started the process to move the MIB from IETF to 802.3 so it would be hard to get this into the MIB right now

Tony will send a note back to 802.3 that reflect the discussion and consensus

Running LLDP on both the controlled and uncontrolled port

Discussion

Need to support both the controlled and uncontrolled port. Need to appear as different port numbers (ifindexes) but we should add a common port ID – see AF as to how this should be done

Ballot Comment Resolution of 802.1AJ – Tony Jeffree

Tuesday PM, January, 29 2008

Security Task Group

P802.1AR Draft Review – Max Pritikin

Section 6.3.2.1 review

Discussion about whether we need to add may support SHA-1 or to require SHA-256. SHA-1 is needed to support existing and deployed equipment

After more discussion drop reference to SHA-1 and change to the following to allow

Change DER encoding reference to blob and the signing operation is as currently indicated

Section 6.3.2.5 Key Delete

Should the IDevID keypair be deleted?

What is the definition of deleted?

There will be two operations for key deletion operations to prevent unintentional deletion of the IDevID

Section 6.3.2.6 Generation of request for DevID credential (CSR)

Should this require SHA-256

Yes, require SHA-256 and optional SHA-1

Wednesday AM, January, 30 2008

Security Task Group

P802.1AF Draft review – Mick Seaman

It is suggested that advertisement can be put in EAPOL Start to avoid the find out by timeout that service is not available

Always send an EAPOL start so that the state machines are synced

Now a discussion about how to encode the start such that version 1 – no advertisement and a new version that supports advertisement can work within the same network

Suggested that there should be a request for advertisement to avoid advertisement floods

Discussion

There are several issues that we need to sort through

A single request bit

There should only be one herald for each physical port to send advertisements

EAPOL Logoff

Only allow multicast to help damp down DOS issues

If logoff is a packet that terminates the secured session then it is dangerous

We need to understand where we are today in the other dot technologies so we can handle logoff in a acceptable and logical manner

Discussion about how to drop a secured connection

Stop sending MKA stuff

Discussion about the relationship between EAPOL Logoff and account stop

How to terminate and propagate session termination to upper levels

What is implied by EAPOL Logoff in .11

Does not flush anything

Encrypted in .11 so it cannot be forged

Discussion about things that should be in which MIB

Session Octets and their relationship to Interface MIB

Should be in PAE MIB

Virtual Port – there are virtual ports that will be semi-permanent so they need a way to maintain information

Network access and fallback scenarios

What is an advertisement PDU?

Front same as LLDP – Chasis id and port id

We need to be careful so we don't trip over LLDP

Don't reinvent an LLDP

This is herald id – way to think about this

Review of Table 9-8

Remove bit 4 and advertise in NID

Need some guidelines to explain the security issues of various uses and failure scenarios

Wednesday PM, January, 30 2008

Security Task Group

P802.1AF draft review – Mick Seaman

Along with NID when the EAPOL starts should some of the other options that could be selected by shown?

Something the supplicant is going to say to the authenticator

Say 802.1x with WebAuth as a fall back because don't have 802.1x simply go to WebAuth

Optimization and it helps to sync

Allows both sides to know quicker what is going on

There should be a new frame type to EAPOL start to not automatically kick off EAP

P802.1AR –

Critical and non-critical extensions

WiMax wants critical extensions

We need to make a modification to allow AR to be in alignment with WiMax

Allow key usage to be marked critical and specify that it is the only critical extension

ECC text

Review of API to make sure it can handle both ECC and RSA

Management Issue

Showing of public key in DevIDIDDevIDEntry

Tomorrow agenda

More P802.1AF

We can troll through the doc to see what folks need to sort out

Review Bernard's slides and see if everything was covered

Thursday AM, January, 31 2008

Security Task Group

P802.1AF Draft Review – Mick Seaman

Multiple Authenticator discussion

This is an attempt to provide redundancy

This is not an issue we need to worry about it

Key Cache

Talk about but not provide management?

Operations

Enumerate

Relationship with NID

Need MIB that controls what goes in the advertisement

SYSTEM (Potential Advertisement)

|--NID

| |

| |---- KMD list

| |

| |---- MacSec Cipher list

| |

| |----AuthReqmts

| |

|---Port

| |

| |----NIDEnable

NETWORK

KMD

|

|----CKN

|

|---life, time, who

Clause 5 Conformance

Should be organized in such a way that someone can claim conformance to 802.1X-2004

Authenticator and supplicant will get their own sub clause
Control direction approach has been replace

Attendees of January Interim

<u>NAME</u>	<u>SURNAME</u>	<u>Affiliation</u>
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Rob	Boatright	Harman Pro
Jean-Michel	Bonnamy	France-Telecom
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Yongbum	Kim	Broadcom
Philippe	Klein	Broadcom
Raghu	Kondapalli	Marvell
Bruce	Kwan	Broadcom Corp
Ashvin	Lakshmikantha	BRCM
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Alex	Pavlovsky	Finisar Corp
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January 2008

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