IETF / IEEE 802.1 Liaison

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November 14, 2005

IEEE 802 Plenary, Vancouver, BC

Topics

- 802 Relationship Document
- 802.1 MIB Transfer Draft
- Radius Extensions
  - VLAN and Filtering Attributes
  - Bandwidth Attributes
- EMU BOF
- Bridging Alternatives
  - GELS BOF
  - TRILL

IEEE 802 / IETF Relationship Document

- Draft has been reviewed by IESG and IEEE 802 SEC
- http://www.ietf.org/internet-drafts/draft-iab-ieee-802-rel-01.txt
- New draft likely to be produced based upon late IEEE 802 SEC comments.

Bridge MIB Transfer

- Draft-04 of ruzin MIB available for review and comment on 802.1 Web-site.
  - http://www.ieee802.org/1/files/public/docs2005/ruzin-mstp-mib-04.txt
  - Seems Ready for a Task Group Ballot – process?
- Draft-00 of IETF document on transfer process available for review.
  - David Harrington editor
  - Dan R assisting. Need additional support and review from 802.1
  - ftp://ftp.rfc-editor.org/in-notes/internet-drafts/draft-harrington-8021-mib-transition-00.txt

Radius Extensions – 802 Attributes

- WG last call has completed. Several issues remain outstanding and are being closed by email.
- http://www.ietf.org/internet-drafts/draft-ietf-radext-ieee802-00.txt
- Attribute list is getting smaller.
  - Diameter AVP clone QoS-Filter-Rule will be removed.
  - Accounting attributes will be removed.

Attribute Summary

(as will be documented in -01)

VLAN attributes

- Egress-VLAN-ID
- Ingress-Filter
- Egress-VLAN-Name

Priority Attribute

- User-Priority-Table

Filter Attribute

- NAS-Filter-Rule

Bandwidth Attributes

- No update to Individual submission.
- http://www.ietf.org/internet-drafts/draft-lior-radius-bandwidth-capability-01.txt
- Feedback provided by 802.1. Unclear if 802.11 implementations exist or are interested.
- No IETF decision to become a WG item.
- Next steps are to produce new individual submission that addresses 802.1 comments on per-class weights.

Bandwidth Attribute Summary

Ingress Bandwidth

- Specifies ingress rate limits in terms of Kbps

Egress Bandwidth

- Specifies egress rate limits in terms of Kbps

Bandwidth Profile Id

- Specifies to apply a pre-configured bandwidth profile by name

EMU BOF

- EMU = EAP Method Update. New standards track EAP methods
- Meeting details and materials:
  - http://www3.ietf.org/proceedings/05nov/agenda/emu.txt
  - https://datatracker.ietf.org/public/meeting_materials.cgi?meeting_num=64
- Useful for ‘Access Control’ solutions such as TCG/TNC and potential future IETF network endpoint assessment extensions
- Useful for 802.1AE/af initial authorization

GELS BOF

- GELS = GMPLS Ethernet Switching.
- A control plane for Ethernet switched data plane.
- http://www3.ietf.org/proceedings/05nov/agenda/gels.txt
- Looking for a way to control bridge forwarding tables with GMPLS signaling
- Goal is to NOT modify 802.1 forwarding (i.e. data plane), but have not ruled this out.
- Unclear what 'label' to use for Ethernet Switching
  - Locally administered MAC addresses
  - VLAN-IDs (C-VIDs, S-VIDs)
  - MPLS Shim Header – Why not just use MPLS then?
- The GELS group would like to have a close liaison relationship with IEEE 802.1
- Documents from the BOF (minutes, presentations):
  - http://www.ietf.org/internet-drafts/draft-andersson-gels-bof-prep-01.txt
  - https://datatracker.ietf.org/public/meeting_materials.cgi?meeting_num=64

TRILL

- Second meeting of TRILL WG.
- Goal is to use existing link state routing protocols (IS-IS) to maintain topology of TRILL LANs.
- Defines a new device – the rbridge
- Currently requires a new encapsulation with TTL, but alternatives continue to be investigated (e.g. using MPLS shim).
- Progress made on the following documents:
  1. Problem statement
     http://www.postel.org/rbridge/draft-touch-trill-rbridge-prob-00.txt
  2. Architecture document
     http://www.postel.org/rbridge/draft-touch-trill-rbridge-arch-00a.txt
  3. Routing Protocol Requirements
     http://www.ietf.org/internet-drafts/draft-gray-rbridge-routing-reqs-00.txt
  4. Multicast State for rbridges
     http://www.ietf.org/internet-drafts/draft-hares-trill-multicast-00.txt
  5. Pseudo-wire encapsulations
     http://www.ietf.org/internet-drafts/draft-bryant-perlman-trill-pwe-encap-00.txt
  6. Potential Base protocol document
     http://www.ietf.org/internet-drafts/draft-perlman-rbridge-03.txt