IEEE 802.1ah Update

Paul Bottorff, Editor 802.1ah
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P802.1ah - Provider Backbone Bridges - Timeline

Task Force

Proposals

TF ballot 1.2

TF ballot 1.52

Merged Model

TF ballot

WG ballot

Sponsor ballot

05 06 07


PAR D0.2 D1.0 D1.5 D2.0 D2.5 D3.0

We Are Here

Legend

▲ 802 Plenary

● 802.1 Interim

□ IEEE-SA Standards Board

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Draft 1.5 Content

> Clause 1: **Scope**
  - Inserted scope statement

> Clause 3/4: **Definitions**
  - Removed Service Instance and aligned text for 802.1ad definition
  - Added I Port, B Port, I-B Interface, B-B Interface

> Clause 5: **Conformance**
  - Added Conformance Statements for I-Comp and B-Comp
  - Defined Conformance for I-PBB and B-PBB
  - Need to decide if we need a statement for IB-PBBs

> Clause 6: **Support of the MAC Service in VLANs**
  - Added section headings for 802.1ah

> Clause 17: **Management Protocols**
  - Added header section for 802.1ah MIB and management

> Clause 23: **Support of the MAC Service by Provider Backbone Bridged Networks**
  - Added updated figures and text alignment
  - Removed multiple links between I-Comp and B-Comp

> Clause 24: **Principles of Provider Backbone Bridged network operation**
  - Aligned terminology with clause 23

> Clause 25: **Principles of Provider Backbone Bridge operation**
  - Aligned frame format section with moving the encapsulation/de-encapsulation to I-Comp
Big Ticket Items Draft 1.5

> Clause 5:
  • Equipment and port definitions

> Clause 6:
  • Ethernet and Multiprotocol encapsulation with Ethertype or Subtype

> Clause 12,17,20:
  • 802.1ah MIB

> Clause 23:
  • Bundled S-VLAN service description
  • Demarcation at I-TAG or S-TAG interfaces
  • Access protection description for Class I-V (should class IV) be included
  • Service protection considerations

> Clause 24:
  • Extended network diagrams
  • Extension of PBN spanning trees over PBBN
  • Connection to Other networks
  • Hierarchical and Peer 802.1ah interconnect
  • Extension of CFM for 802.1ah

> Clause 25:
  • Reference model decision
  • Details of I Component and B Component operation
  • Operation of address correlation data base
Major TF 1.52 Ballot Comment Resolutions

- Change the 802.1ah reference model to the merged “relay”/”shim” model. The 2.0 draft will use the merged model and will retain the shim model in Annex Z.
- Retain the sections on Peer and Hierarchal E-NNI in clause 24.6 and expect them to be naturally supported by the merged model
- Retain transparent and bundled service interfaces without restrictions
- Allocate 24 bits to the I-SID
- Close on I-TAG formats at the March meeting (including “multiprotocol” formats). We are soliciting final contributions on formats by March.