802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair
27 March 2007
Areas of work

- 802 Architecture and interworking between 802 technologies
  - Cross-802 Architecture group
  - “Technical Plenary” if needed

- Interworking
  - “Traditional” (802.1D) bridging
  - VLAN (802.1Q) bridging
  - Provider bridging
  - AV bridging
  - Congestion management

- Security
  - Secure frame transmission
  - Key management
  - Secure device identity

- LAN management
  - Discovery mechanisms
  - Connectivity fault management
Officers

- Chair: Tony Jeffree
- Vice Chair: Paul Congdon
- Recording Secretary: Michael Wright
- Interworking TG Chair: Steve Haddock
- Link Sec TG Chair: Mick Seaman
- AV Bridging TG Chair: Michael Johas Teener
- Congestion Management TG Chair: Pat Thaler
- Link Sec TG Secretary: Allyn Romanow
- Maintenance of Email exploder: Hal Keen
- Maintenance of website: John Messenger
  - Website: http://www.ieee802.org/1/
Status of current projects - (1)

The following draft PAR was forwarded to NesCom this week:

– P802.1Qay: Provider Backbone Bridge Traffic Engineering. Links to PAR and 5C can be found here:

http://ieee802.org/secmail/msg09018.html
Status of current projects - (2)

- **MAC Service revision (P802.1ac)**
  - Initial input generated based on ISO/IEC JTC1 standard 15802-1 plus ISS, E-ISS from 802.1D and 802.1Q
  - Second draft (D0.1) generated for circulation to the WG

- **P802.1af – Key Agreement**
  - Current draft is D0.9
  - Awaiting next TG ballot

- **P802.1ag Connectivity Fault Management**
  - Current draft is D8
  - Forwarded to Sponsor Ballot
Status of current projects - (3)

- **P802.1ah – Provider Backbone Bridges**
  - Proposed amendment to 802.1Q to provide further scaling characteristics in conjunction with P802.1ad in large provider networks
  - Current draft is D3.04
  - Undergoing comment resolution of first WG ballot

- **P802.1aj – Two-port MAC Relay**
  - Proposed amendment to 802.1Q to define a relay device, commonly known as a “media converter”, that will assist the integration of 802 LAN technologies with emulated LAN services in use in the provider networking space.
  - Current draft is 1.4
  - Further TG balloting in April/May timeframe

- **IEEE Std 802.1ak:2007 – Multiple Registration Protocol**
  - Amendment to 802.1Q to improve the performance/scalability of GARP-based applications (GVRP, GMRP) in provider networks
  - Approved by March RevCom
Status of current projects - (4)

- **P802.1ap** - Management Information Base (MIB) definitions for VLAN Bridges
  - Draft D0-1 generated and issued for TG ballot
  - Comment resolution completed
  - Further TG ballot expected April-May

- **P802.1aq** – Shortest Path Bridging
  - Current draft is D0.3
  - Awaiting next Task group ballot

- **P802.1AR** – Secure Device Identity
  - Current draft is D0.8
  - Under Task group balloting

- **P802.1AS** – Timing and Synchronization in LANs
  - Current draft D0-6
Status of current projects - (5)

- P802.1at – Stream Reservation Protocol – Recently approved PAR
  – Current draft is D0-3
- P802.1au – Congestion Notification – Recently approved PAR
  – Current draft is D0-1
- P802.1H Revision – MAC Bridging of Ethernet – Recently approved PAR
Status of current projects - (6)

- P802.1Qav – Forwarding and queing for time sensitive streams
  - PAR approved
- P802.1Qaw – Data dependent CFM
  - PAR approved
- P802-REV – Overview and Architecture revision
  - PAR approved
- P802.1AB-REV – Link layer discovery protocol revision
  - PAR approved
  - Current draft is D0.1
  - Task Group ballot on next draft
Next Interim meeting

- Geneva, Switzerland, week of 28-31 May 2007