802.1 OTTAWA OCTOBER 1996 INTERIM MEETING
LIASON REPORT TO 802.5
JOHN MESSENGER
PROTEON
OCTOBER 1996

Ballot Status

	Q:	VLANS	D2)	More Work
Oct 9	P:	Multicast and priority	D4)	
Oct 14	D:	Bridging	D12	Almost finished

Group Address for DTR Concentrator Management

"P802.1 approves the request from P802.5 for assignment of a Standard Group MAC Address for the use specified in P802.5r/D5 (Dedicated Token Ring) as the 'All DTR Concentrator Management Group Address'. The value to be assigned will be determined in consultation with the editor of ISO/IEC TR 11802-2, Mr. Paul Cowell. P802.1 requests LMSC SEC (in its role as US TAG for ISO/IEC JTC1SC6) to forward a corresponding request for consideration by SC6." Proposed Chambers, Second Slager, Pass.

VIRTUAL LANS P802.1Q/D2

Presentations

Nine substantial presentations were made, including the following key ones:

A few simple architectural concepts	P. Langille
Supporting Multiple VLAN styles	J. Wakerly
Multiple Spanning Trees in 802.1Q	N. Finn
Quick VLAN Standardisation	Anil/Many

Resolution of Ballot Comments

ISSUE 2: SIMPLIFICATION

- Single Spanning Tree in Rev 1 of standard (but leave room to change this within architecture)
- Model is Ingress rules, Forwarding rules, Egress rules
- Port-based VLANS only, in Rev 1. (This is an ingress rule)
- Thus no grammars defined for frame classification
- Single-level tagging

ISSUE 1: FRAME FORMAT

- Priority will go in top 3 bits of VID word
- Keep TR encap bit (also in VID word)
- VID = 0 means "No VLAN info"
- Comments on priority belong in P802.1P ballot
- RIF will be maintained at the front of the frame
- For any given wire, there must be a unique representation of a given frame
- Will not specify MTU violations : stick to limits

ISSUE 3: TERMINOLOGY

- Confusion of terminology distinguishing "LLC Frame" from "Token Ring Frame" will be fixed

ISSUE 4: TAGGING

- Tag format on Ethernet/802.3:

  DA | SA | VPID | Encapsulated Frame

  VPID = VLAN Protocol ID - a fixed, allocated 802.3 "Type" value to be assigned

  VID = Priority, TR - encap, VLAN identifier
          (3)   (1)   (12)   bits

  Encapsulated frame = (starts with a "Type" or length)

- Tag format on Token Ring:

  REQUEST FOR INPUT FROM 802.5

  In 802.1Q/D2:

  DA | SA | RIF | SVPID | VID | Encapsulated Frame

  SVPID = SNAP - encoded VPID including LLC
          (8 octets: AA AA 03 | 00 00 00 | XX XX)
                               ←-------→
                                 VPID

THIS IS A LONG TAG

Some .1 members want to participate in this discussion
Encapsulated frame = (starts with 3-byte LLC header)

ISSUE 5: TOPOLOGY DISCOVERY

- No Topology discovery protocol in 802.1Q

ISSUE 6: MANAGEMENT

- Proposals solicited

ISSUE 7: SUPPORT FOR DUPLICATE ADDRESSES

- The issue is that people want to be able to have duplicate MAC addresses provided they are in different VLANS.
- An attempt will be made to support this

ISSUE 8: SUPPORT FOR OTHER LAN TECHNOLOGIES

- 802.12 comes for free
- Add .6, .11, .14

ISSUE 9: ARCHITECTURE

- A frame maps to one and only one VLAN
- All ports default to VLAN 1 (ingress rule)

Next Draft

P802.1Q/D3 will be hand carried into the Nov. '96 meeting in Vancouver

<u>Options for Representing VLAN frames on 802.5 Media</u>

- SVPID - Snap-encoded Ethertype (VPID)   (10 bytes)
- Our own LSAP   (5 or 6 bytes)
- A different FC value - bits - where?   (2 bytes)

FC

F	F						

FC

0	1	r	r	r	Y	Y	Y

. . . .

```
DA | SA | RIF |
        /    \
     | RT | LTH |
      / \
   [   |   | • ]
```