

IEEE 802.1aq Shortest Path Bridging D3.0 Review

Don Fedyk Editor

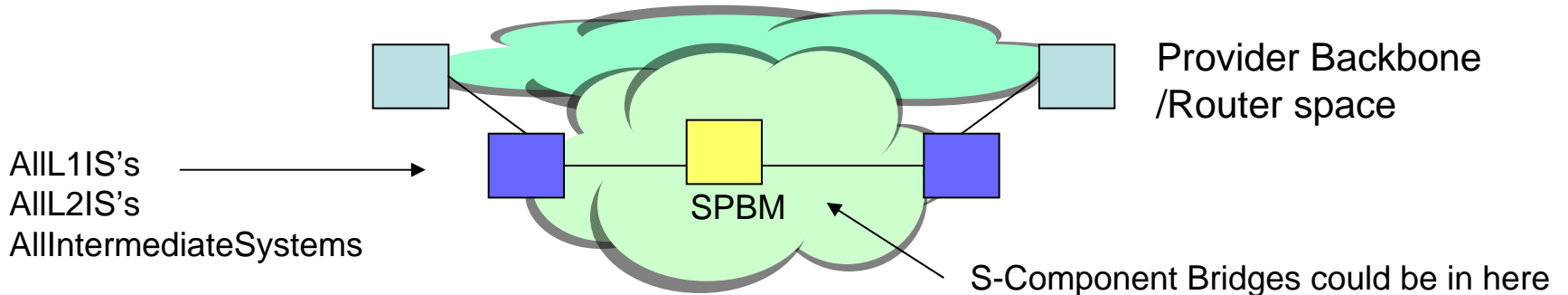
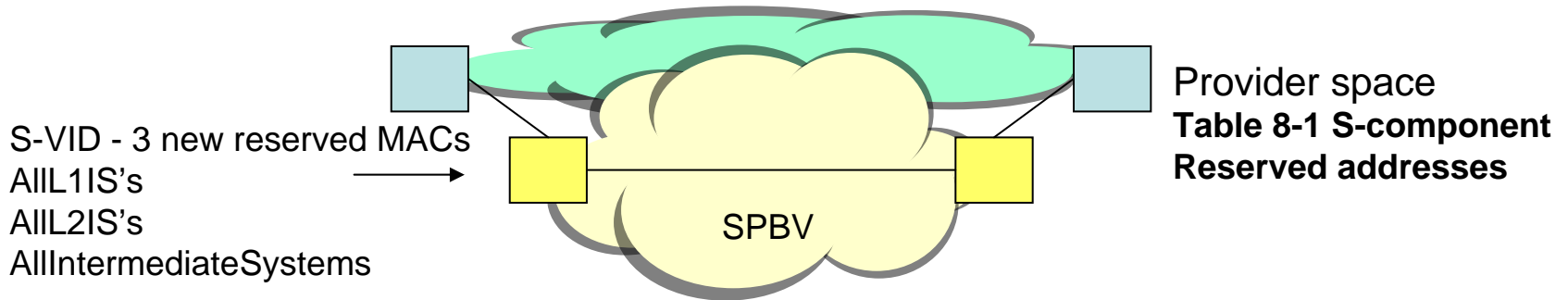
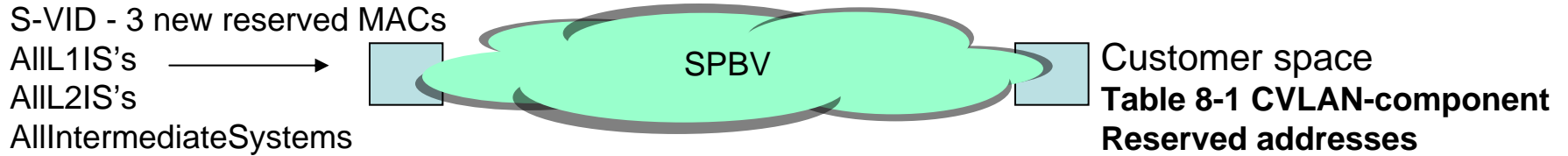
D3.0 July Ballot Summary

Category	Total	Percentage
Yes	5	38.46%
No	8	61.54%
Abstain	20	60.61%
No. of Voters	89	100.00%
Voters responding	33	37.08%

Issues being closed next version

- Addressing Ballot comments
- IS-IS addressing
 - Plan for 9 IS-IS reserved addresses 3 existing 6 new.
- Ports versus IS-IS Adjacencies
 - Need to nail down multiple link behavior
- Agreement Digest
 - Finalize Algorithm
- MIBs
 - Update
 - PICS

IS-IS Addressing



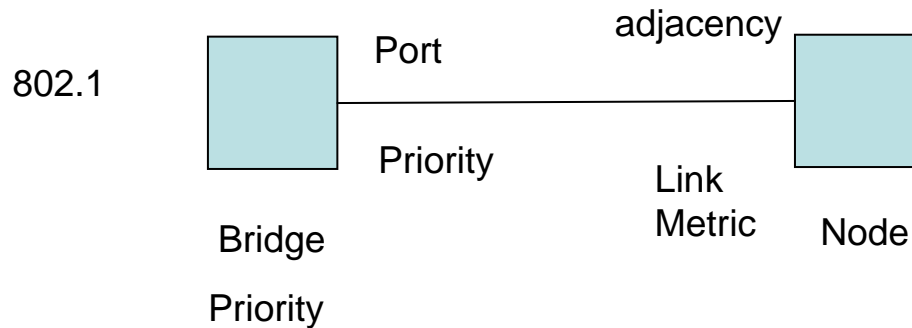
ISIS-Addressing Summary

- The S-VLAN behavior requires that we have a separate C-VLAN space
- The PBB space behaves like the router space.
- But since S-VLAN switches may be between SPB bridges the S-VLAN space needs to be distinct as well.
- There for we need 6 new reserved MACs

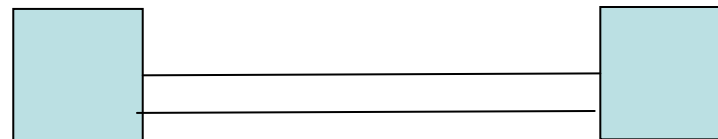
Ports versus IS-IS Adjacencies

Spanning Tree View

Link State View



When there is one link then all is good.



What to do about this?

One Solution treat as LAG group and then then is no issue
But IS-IS support multiple adjacencies

Action Document the solution

Ports versus IS-IS Adjacencies

- Port Priority is carried in IS-IS Port Identifier Port Number and Port Identifier
- Existing MIBs enough?
- Need Port Priority to Build the CIST
- Can we just use LAG group?

Agreement Digest

- Number of options
 - Algorithm
 - Node Link Node in a Multi topology instance

Acknowledgments

- Many people have contributed to the D3.0 version
- Peter Ashwood-Smith
- Nigel Bragg
- Janos Farkas
- Mick Seaman
- Panos Saltsidis
- Paul Unbehagen