



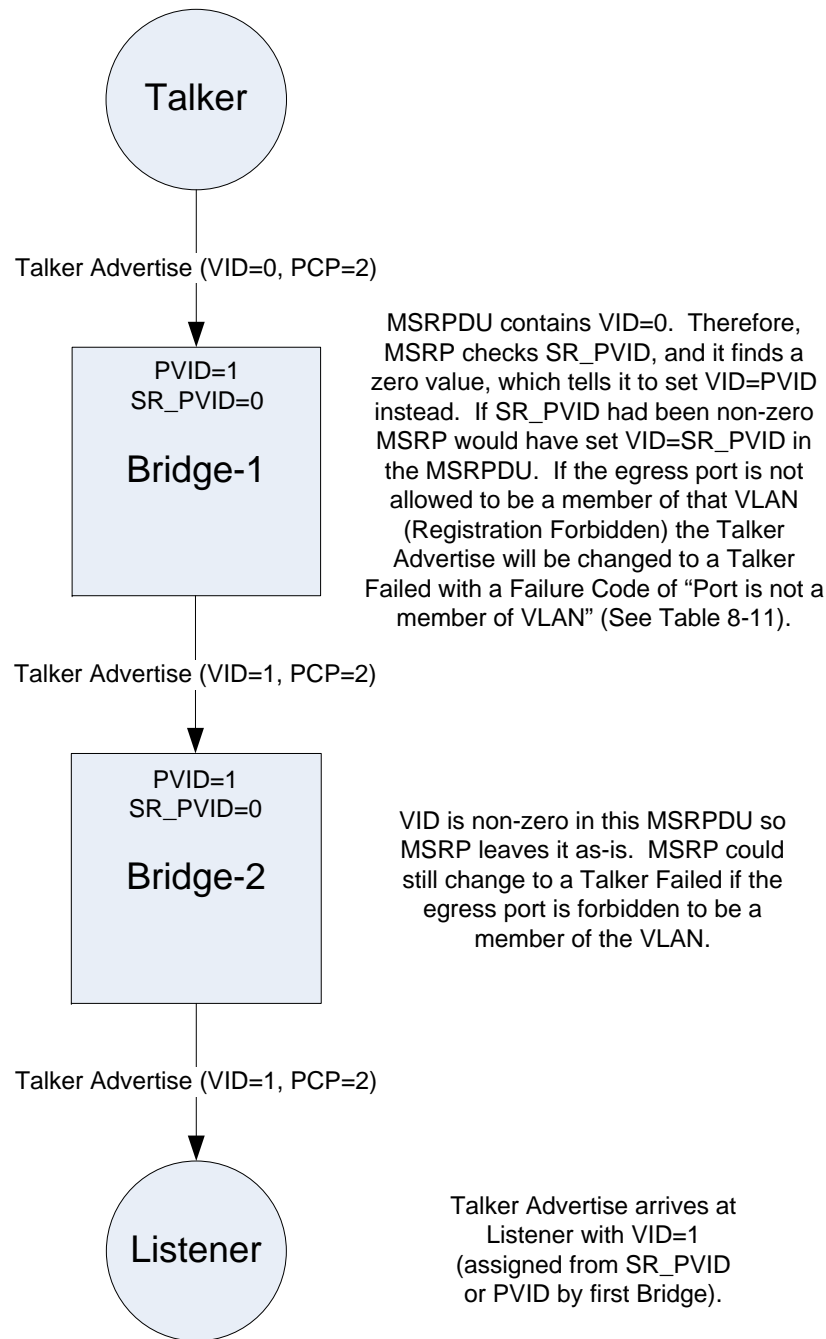
SRP and VLAN-IDs
a.k.a. “Comment #26”

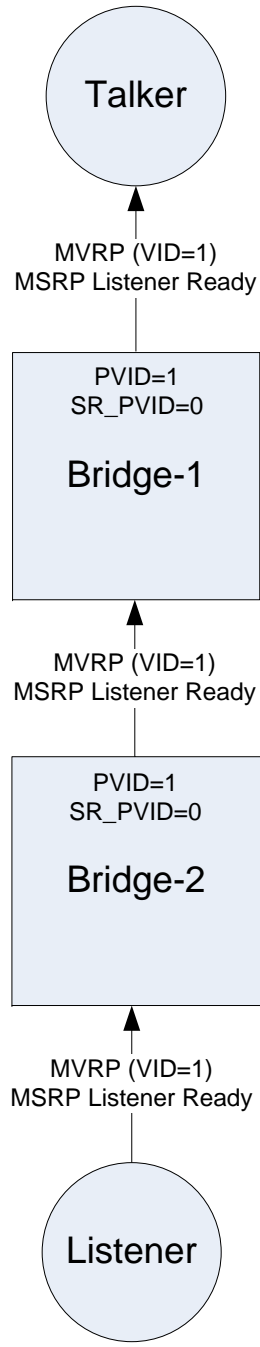
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VLAN Notes

- Clause 8.8.2, NOTE 1. Single vs multiple untagged vlans per port is an implementation option.
- Clause 8.8.2 says PVID defaults to Registration Fixed and untagged forwarding on all ports.
- Clause 8.8.2, NOTE 2. PVID untagged by default, all other VIDs tagged by default.



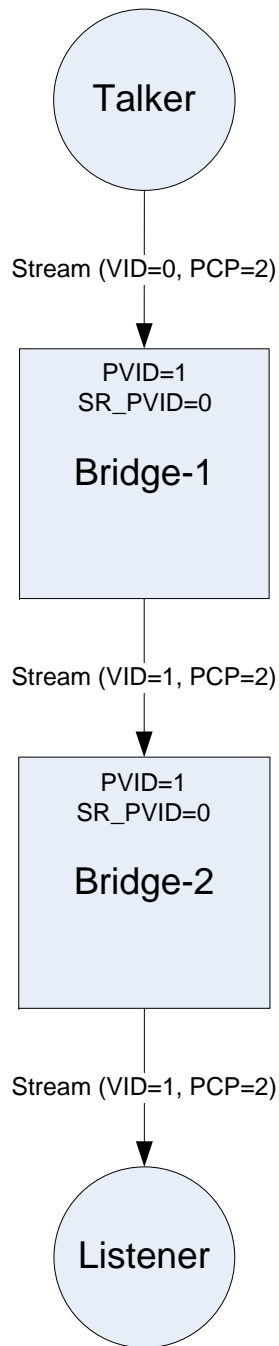


Talker receives MVRP, however it doesn't have to do anything with it.
Talker receives MSRP Listener Ready and can begin Streaming.

(same behavior as Bridge-2)

Bridges receives MVRP and adds port to VLAN Member Set.
Bridge receives MSRP Listener Ready and configures Qav, etc.

Listener extracts the VID from the Talker Advertise and sends an MVRP ES_REGISTER_VLAN_MEMBER (VID) back to the Bridge.
Listener also sends an MSRP Listener Ready.



Talker begins streaming with VID=0.

Here's a bit of a challenge. The Streaming data comes in with VID=0. How will the Bridge identify this as an MSRP related Stream without a lot of CPU effort? Certainly it could look at the PCP or the MAC DA, then insert the SR_PVID or PVID, but that seems like it may be something unusual to do. If we dismissed the idea of an SR_PVID and just used PVID then the Bridge could do what it already does with the PVID. Maybe the Talker should extract the VID from the MVRP packet, or MSRP could use the SRP Domain packets to tell the Talker which VID to use (This may apply to the Talker Advertise packets as well).

This Bridge routes the Stream data.

Listener receives the Stream data and processes it appropriately.

Questions to answer

- Should we stick with our very early assumption of using the PVID?
 - If so, Talkers would still send MSRP and Streams with VID=0.
 - How does this play with “PVID defaults to Registration Fixed and untagged forwarding”?
- Do we want to introduce SR_PVID?
 - If so, what value will Talker put in Stream VID?
 - How did it learn that VID?
- Regardless of which technique we use a “smart” Talker could be VLAN aware and use a non-zero VID in MSRP and Streams.