

# **AVB Domain Boundary Detection**

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#### **Overview**



- Original problem brought to the IEEE 1722.1 workgroup
- Assuming that all entities are in the same 802.1AS domain, a controller attached somewhere on the network wants to know which entities can be connected to the each other
- No method to determine if two end stations are in the same domain
- This creates a U/I problem of displaying devices or combinations of devices that are in separate domains

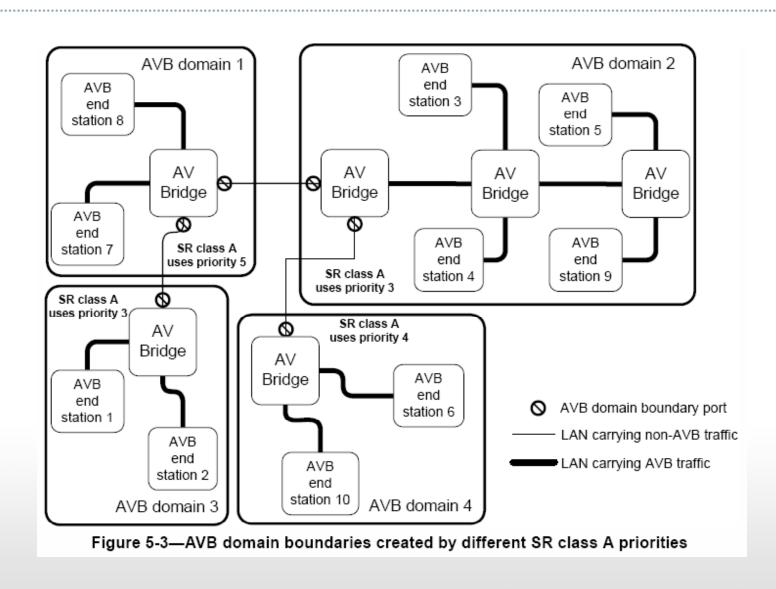




- End Stations have the following information
  - 802.1AS Grandmaster ID
  - SR Class A Priority
  - SR Class B Priority
  - SR\_PVID (not used for boundary determination)
- No way to distinguish between stations in different Domains with identical GM ID and SR Priorities

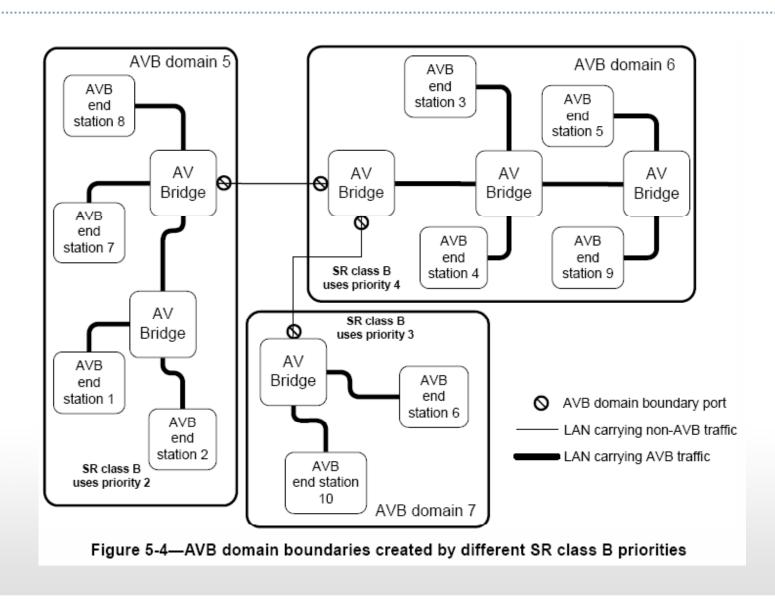






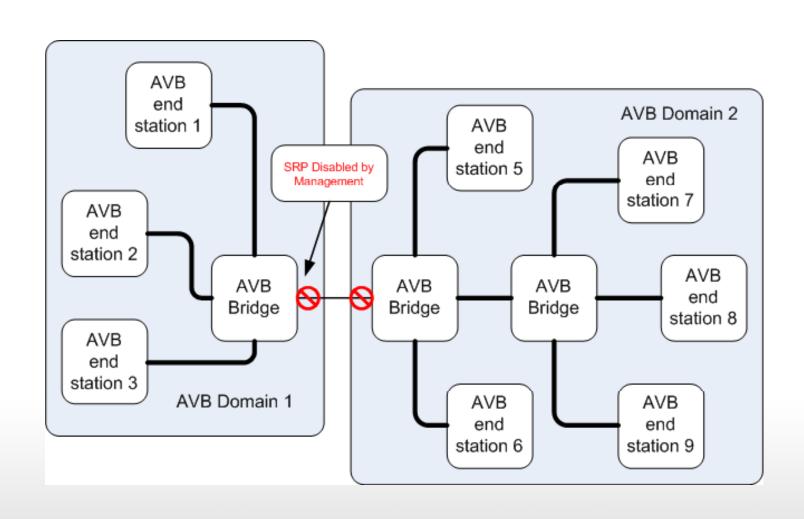












### **Solutions Discussed**



### Zero byte reservation solution

- Attempt to create a zero byte SRP reservation between all possible combinations
- Failed reservations must be in different domains
- Are zero byte reservations legal or supported?

## Add Unique Domain ID to SRP

- Add something to SRP to communicate a unique ID from bridges to end stations
- How do we generate a unique ID?
- Can we create an SRP Domain Master?



WHERE SOUND MATTERS











