



Ring wide SDB Purge

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Ring wide SDB Purge

- Why is it needed ?
 - Change in network topology can cause some of all of SAS learnt entries because stale
 - Not all stations on the ring will necessarily detect the change in the topology
 - If some one else don't tell them about it, these SAS stations on the ring shall continue to use stale SAS table entries
 - This can lead to traffic black holing till the stale SAS table entries age out
 - We need a way to handle this quicker and better





Example Topology E1 E2 **S**3 E3 L2 Network with STP **S**1 S2 RPR R1 - SAS Enabled First Hop Router for all the subscribers

- E1.E2 & E3 are the subscribers accessing the network via the switches S1.S2 & S3 and the router R1.
- S1 & S2 run spanning tree to provide redundant connectivity to the ring.
- If the L2 topology changes such that all • the subscribers originally behind S1 are now behind S2 (from R1's point of view), R1 needs to be told about it.
- Why because R1 does not run • spanning tree so would not know about it.
- S1 or S2 need to trigger an SDB Purge ٠ message around the ring to let R1 know.
- Upon receiving this message, R1 would flush its SAS table, starts flooding and eventually relearns the new associations.