Spatially aware sublayer and RPR reserved MAC address

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Agenda

- Objectives

- Problem overview

- Solution overview

Objectives

- Outline procedures by which a RPR frame, with a reserved group MAC address, is never bridged off the ring

Problem overview

- In the event that a RPR station client inadvertently request the transmission of a frame with a destination address that is a RPR reserved group MAC address

    - Intermediate bridging stations on the ring, may broadcast these frames out the off-ring network

    - The RPR reserved group MAC address should only be local to the ring

Solution overview

- Utilize the permanent database and/or filtering database associated within bridge clients on RPR

  - As specifically by IEEE Std 802.1D-2004, the permanent or filtering databases should be statically configured with (reserved) MAC addresses that should be filtered

- Statically add an entry in the permanent and/or filtering databases of all bridging clients on RPR such that the RPR reserved group MAC address is filtered