Modified Draft 0.9 steps in the normal case

- Listener discovers by some unspecified means what the multicast address of the stream is. The RSVP Path message is one possibility.
- MMRP registration in Listener to Talker direction.
- SRP configures queues along Talker to Listener direction.
- Acknowledgement must be returned Listener to Talker before data can be transmitted.
**MSRP: Required steps in the normal case**

- Talker make offering declaration in Talker-to-Listener direction.
- Listener responds with Ready declaration. Queues configured as registration progresses from Listener to Talker.
**MSRP vs. modified 0.9:** Required before transmit

**MSRP**
- Talker Offering registration
- Listener Ready registration

**Modified Draft 0.9**
1. Stream MAC address (e.g. RSVP Path)
2. MMRP “I want to listen”
3. SRP builds queues
4. ACK – OK to transmit data
802.1Qat + RSVP: Required before transmit

(Order of RSVP vs. 802.1Qat is not specified – Talker cannot transmit until both protocols are happy.)

MSRP

Talker Offering registration
Listener Ready registration
RSVP Reserved

Modified Draft 0.9

RSVP Path

Talker

Listener

1

2

3

4

MMRP “I want to listen”
SRP builds queues
ACK – OK to transmit data
RSVP Reserved
**802.1Qat + RSVP: Failure case 1**

(Order of RSVP vs. 802.1Qat is not specified – Talker cannot transmit until both protocols are happy.)

**MSRP**

1. Talker Offering registration
2. Listener Failed registration
3. RSVP Resv (failure)
4. Listener Failed registration

**Modified Draft 0.9**

1. Talker
2. Listener
3. RSVP Path
4. MMRP “I want to listen”
5. SRP builds queues
6. NACK – Not OK to transmit data
7. RSVP Resv (failure)
**802.1Qat + RSVP: Failure case 2**

(Order of RSVP vs. 802.1Qat is not specified – Talker cannot transmit until both protocols are happy.)

**MSRP**

**Talker**

| 1 | 2 | 3 | 4 |

**Listener**

| RSVP Path | Talker Offering registration | Listener Ready registration | RSVP Resv |

**Talker Failed**

| RSVP Resv (failure) |

**Modified Draft 0.9**

**Talker**

| 1 | 2 | 3 | 4 |

**Listener**

| RSVP Path | MMRP “I want to listen” | SRP builds queues |

| NACK – Not OK to transmit data |

| RSVP Resv (failure) |
Initial MAC address notification step

- One can argue about whether the initial step of leaning the MAC address of the stream should not be counted against the modified D0.9. We could consider this step a requirement, rather than a step in the process.
Summary

- **NO FAILURE CASE**
  MSRP requires two steps: offering, ready.

  Modified D0.9 requires three or four steps: (notification), MMRP, SRP, Ack.

- **FAILURE CASE**
  MSRP requires two or three steps: offering, (ready), failure.

  Modified D0.9 requires three or four steps: (notification), MMRP, SRP, NAck.