RTCP Extensions for SSM Sessions with Unicast Feedback

Julian Chesterfield

Eve Schooler

Jörg Ott

AVT WG - 12 November 2003

Changes

Incorporated changes from issues resolved at 57th IETF

1. **BYE reporting in RSI packets removed**
2. **Added motivation + clarifying text for each summary type**
3. **Clarified bandwidth utilization for sender in summary mode**
   - use calculated receiver b/w for RSI packets
4. **Changed RSI timestamp to 64 bits to match SR**
5. **Slightly reworked security consideration (tbc.)**
6. **Split references into normative and informative (+ updated references)**

Issue 1: RTCP packet format

- **RFC 3550 requires certain structure for RTCP packets**
    - **Start with SR or RR**

- **What to do with RSI packets?**

    - **Conveys summary of receiver information**

    - **But including RR seems pointless (which one?)**

- **Solution: include SR?**

    - **Benefits**

        - Can get rid of timestamp in RSI

        - Provide more frequent sender status to receivers

    - **Issue: semantics just don't feel right**

Issue 2: Controlling RTCP B/W

Two possible alternatives:

- **Distribute the current group size**
  - **Contained in basic RSI packet**
  - **Straightforward; feels like regular RTCP**

- **Notify each receiver about its bandwidth**
  - **RTCP bandwidth indication report block**
  - **Allows to conceal the actual group size**

- **Which one to choose?**
- **Allowing for both would require additional rules**

Next Steps

- **Fix editorial nits**
- **Provide more detailed text on how a distribution source generates RSI packets from the incoming RTCP reports**
- **Slim down security considerations**
- **Incorporate text on issue resolution**

Target: December 2003