

Application of Loss Metrics to Multimedia Streams

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Outline

- ❑ Need
- ❑ Requirements
- ❑ Proposal
- ❑ Discussion

The Need

- ❑ Industry need: Consistent metric for monitoring media stream performance in IP networks
- ❑ Packet level loss metrics based on RFC 3357 are very useful and simple to understand; they are applicable to media applications
- ❑ Need for a clear understanding of the applicability

Requirements

- ❑ **Based on current IPPM Metrics**
 - Consistent and predictable
 - Scalable

- ❑ **Content agnostic**
 - No decoding of content
 - Based on packet headers

- ❑ **Use in network operation**
 - Meaningful and actionable metrics

Proposal

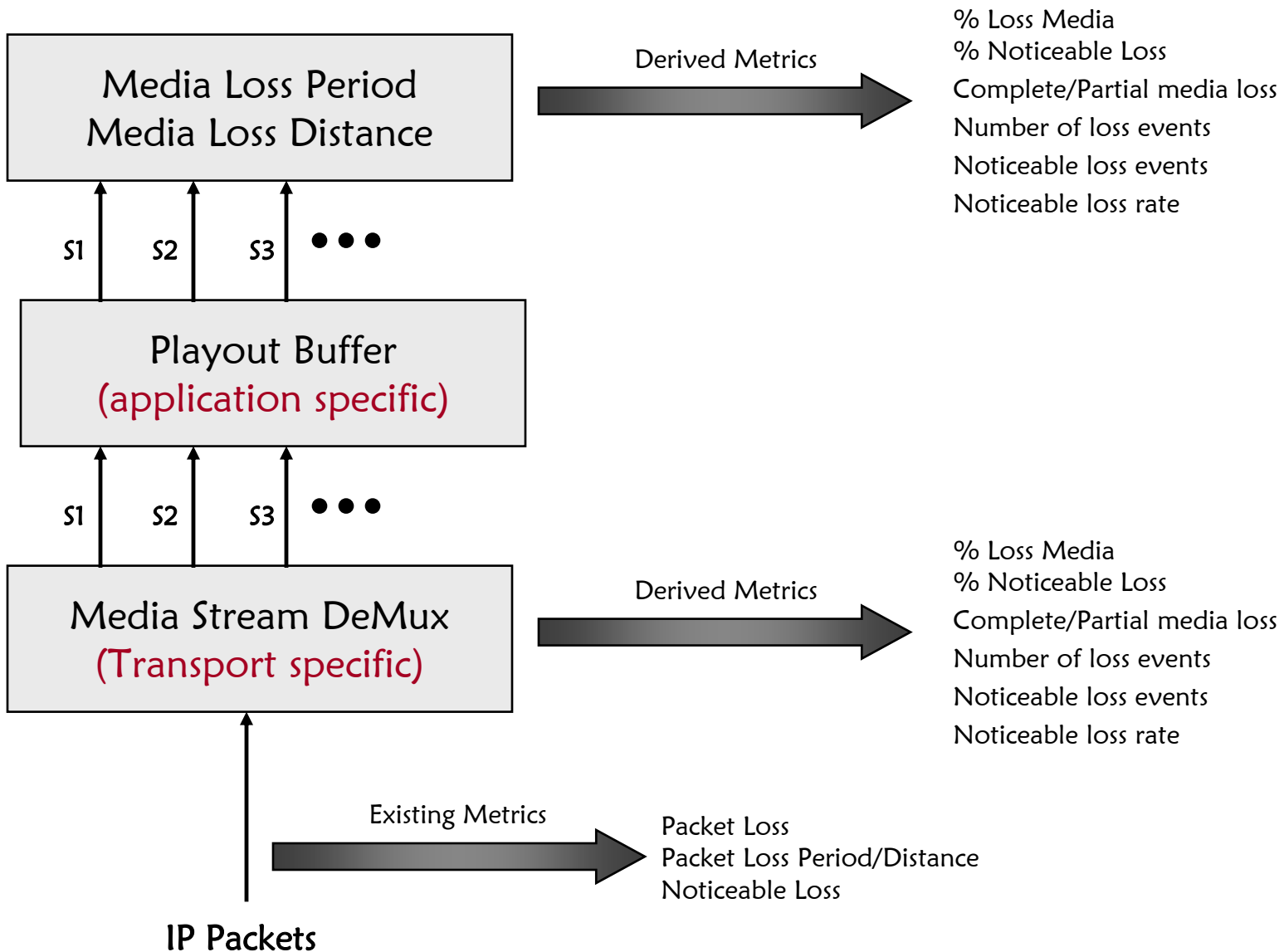
❑ Problems

- Large “Frames”
- Multiplexed Media Streams

❑ Specify how to compute metrics

- Media Loss
- Media Loss Period and Media Loss Distance
- Percent media loss
- Complete/Partial media loss
- Number of loss events
- Noticeable loss events, noticeable loss rate

Proposal



Discussion

□ Next Steps...