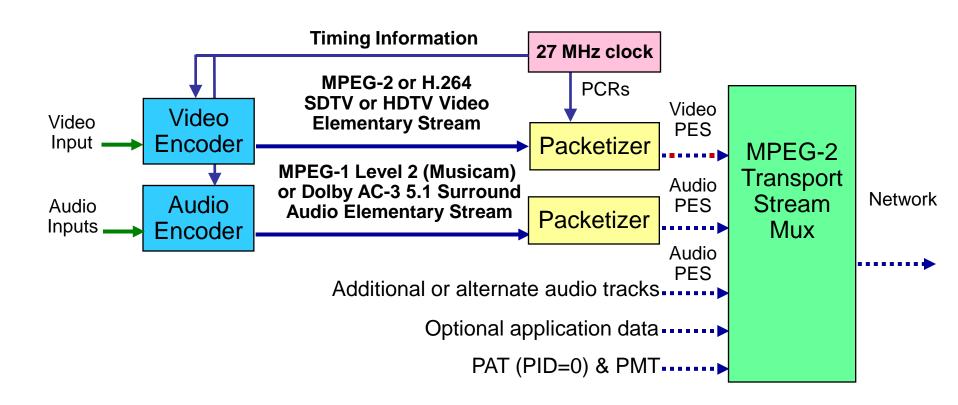
Preamble Acquisition of MPEG-TS Multicast Sessions

draft-xia-avt-mpeg2ts-preamble-00.txt
Frank Xia
Xingfen Wu

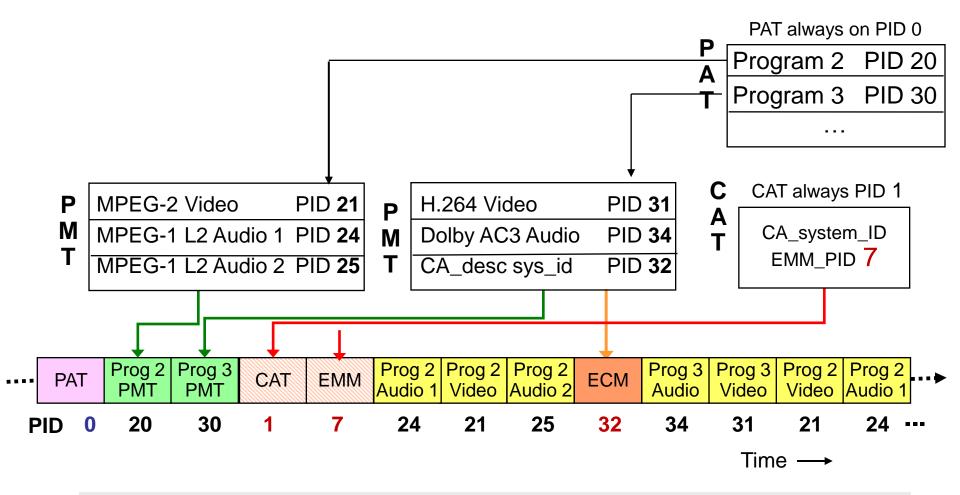
Presented by Peilin Yang

Packetization into MPEG-2 TS



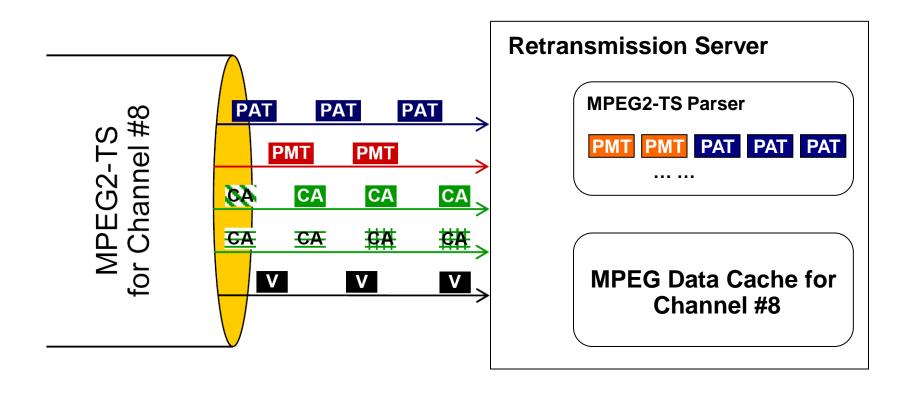
- Transport Stream defined by ISO/IEC 13818-1 or ITU-T H.222.0
- Preamble is necessary reference information which must be acquired before demux/decoder starts to process any data, e.g PAT, PMT.

Preamble illustration



Preamble TSes are delivered repeatedly and dispersed among other TSes

Preamble Acquisition and Cache



- MPEG2-TS Parser in RS extracts and caches TSes with preamble information
- These preamble TSes are packed into new created RTP packets which are sent to a RTP receiver prior to unicast burst

Comparison of the two alternatives

	begen-avt-rtp-mpeg2ts-preamble	xia-avt-mpeg2ts-preamble
Format for carry ing preamble	New defined	RFC4588
Requirement of RR	Post-processing	None
Advantage	Flexibility	Simplicity

The preamble TSes sent from RS are the same as the TSes after RR's post processing

Mailing list discussion highlights

Q: Is it a misuse RFC4588 for carrying preamble?

A: RFC4588 reads "RTP retransmission is an effective packet loss recovery technique for real-time applications with relaxed delay bounds". RAMS is not a retransmission solution as specified in RFC4588. This draft shares the same justification as RAMS to use RFC4588 format.

Q: How to set OSN field when RFC4588 is used?

A: Preamble RTP packet is sent prior to the burst.

1st preamble packet (SN: 2000 - OSN: 99)

1st burst packet (SN: 2001, OSN: 100)

2nd burst packet (SN: 2002, OSN: 101)

Thank You