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Title: System multiplexing and priorities
Source: PTT Research (NL)
Purpose: Discussion

Major future MPEG2/H.26x applications will use the coming Broad band Integrated Service Digital Network (B-ISDN). This is an ATM network, transferring cells in a switched environment allowing for one terminal several 'virtual channels' via the same user interface.

In this network prioritization of data is possible, on virtual channel level, and on a cell by cell basis. This relates to the following discussion items:

1. What is the multi program multiplex functionality beyond program (pack) identification?
2. How can the multiprogram multiplex be translated in a multimedia ATM transmission with minimal demux and mux efforts?
3. Do we allow prioritization of elementary streams and how.
4. In which way are elementary streams qua priority linked to the transport demultiplex as given in e.g. the email of Pieter Noordam of March 12 on hierarchical transport Related issues are:
 - Is it possible to transmit an elementary stream over several transport layers.
 - Is it possible to indicate different priorities in one transport layer, (e.g. the Cell Loss Priority bit in B-ISDN) and how to signal this from the elementary stream.