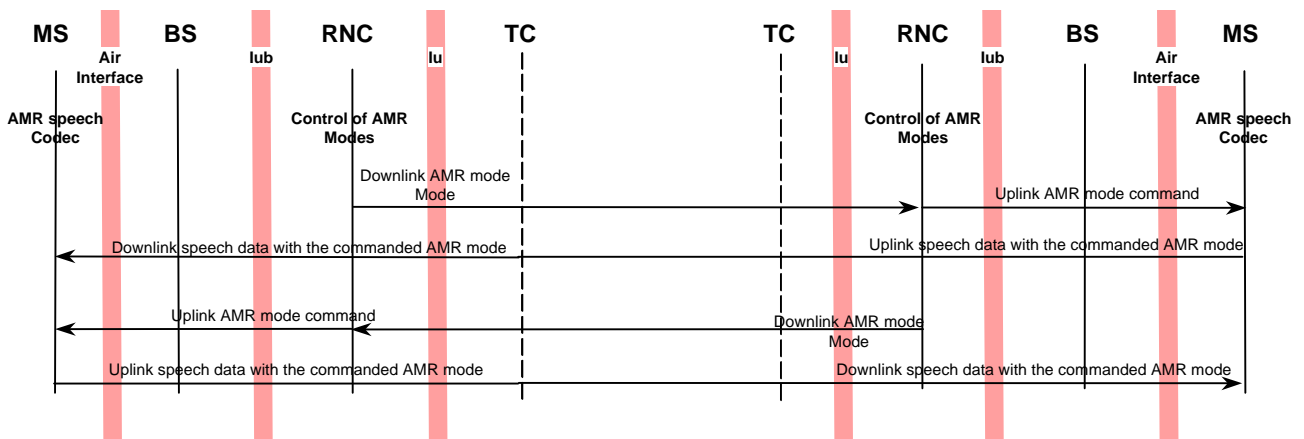


Liaison To: TSG-R3, TSG-R2
From: TSG-S4 (Codec Working Group)
cc:
Subject: Transmission of variable-rate codec mode commands on the lu Interface

TSG-S4 thanks TSG-R2 for the copy of its liaison to TSG-R3 (R2-99986) asking R3 to clarify the transmission means of the AMR codec mode commands on the lu Interface.

In addition to the operation mode described in the liaison statement, S4 would like to remind R2 and R3 that the codec mode may also be generated by a remote RNC in a TFO (Tandem Free Operation) configuration or a TrFO (Transcoder Free Operation) configuration. This situation is described in the following diagram:



In this case, the local transcoder is not the final destination of the downlink codec mode command. The command must be transmitted (by some means) to the remote RNC to request the remote MS to use the best codec mode for the two involved systems. Note that in some cases, the remote network may be a GSM network also supporting in-band TFO or TrFO.

The consequence of this type of configuration is that the transmission of the codec mode command on the lu Interface must be functionally symmetrical (RNC to Core Network or Core Network to RNC).