

Source: Drafting Group (GTT ad hoc)

Title: E911 support of CTM

Document for: Discussion

Agenda Item: 5

This contribution focuses on the FCC requirements for the treatment of Baudot code Text Telephony for emergency 911 call. The solutions discussed in the contribution should be able to be migrated to meet the requirements for user-to-user GTT.

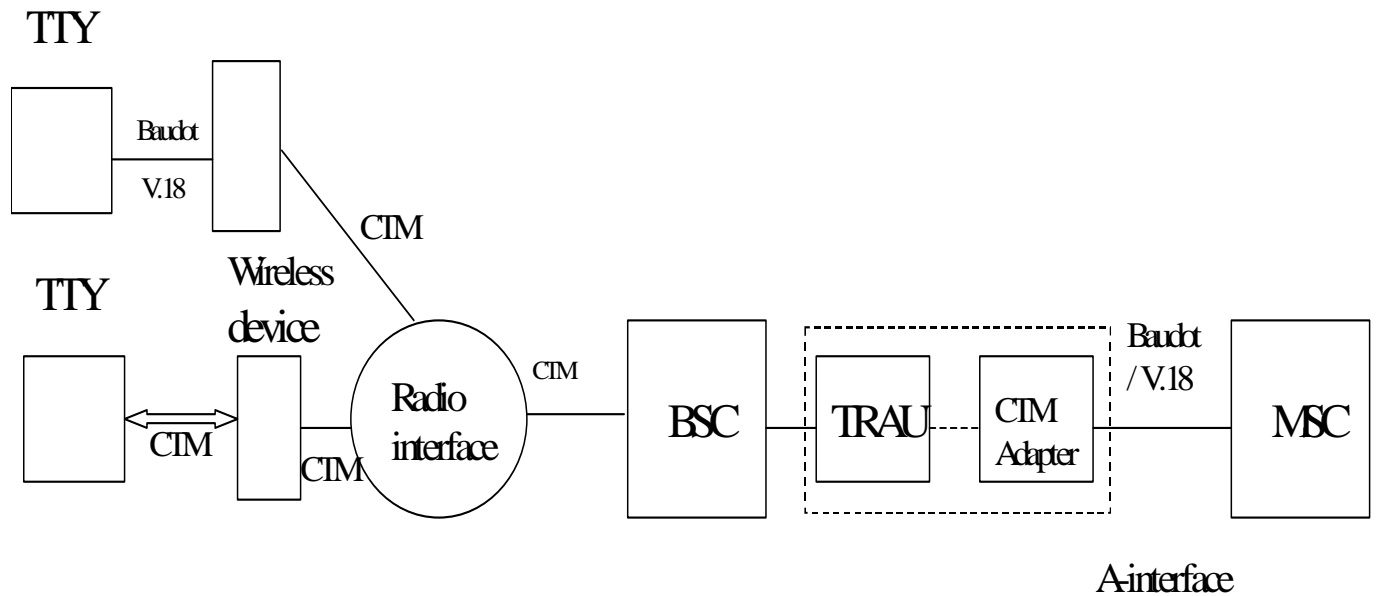
Possible solutions:

1. All transcoder (GSM and UMTS)
2. Transcoder pooling
3. CTM service node

1a - All transcoder solution (GSM)

Description

In this solution all the transcoders in a network are upgrade to support the CTM modem.



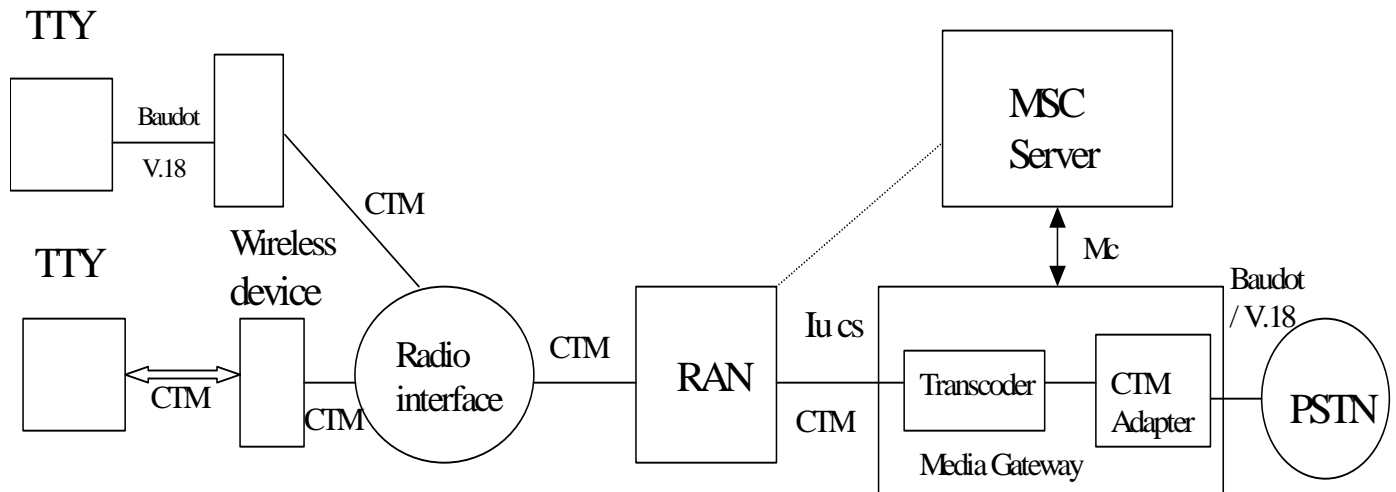
Main Issues

- Every transcoder in the network needs upgrading to support CTM

1b - All transcoder solution (UMTS)

Description

In this solution all the transcoders in a network are upgrade to support the CTM modem.



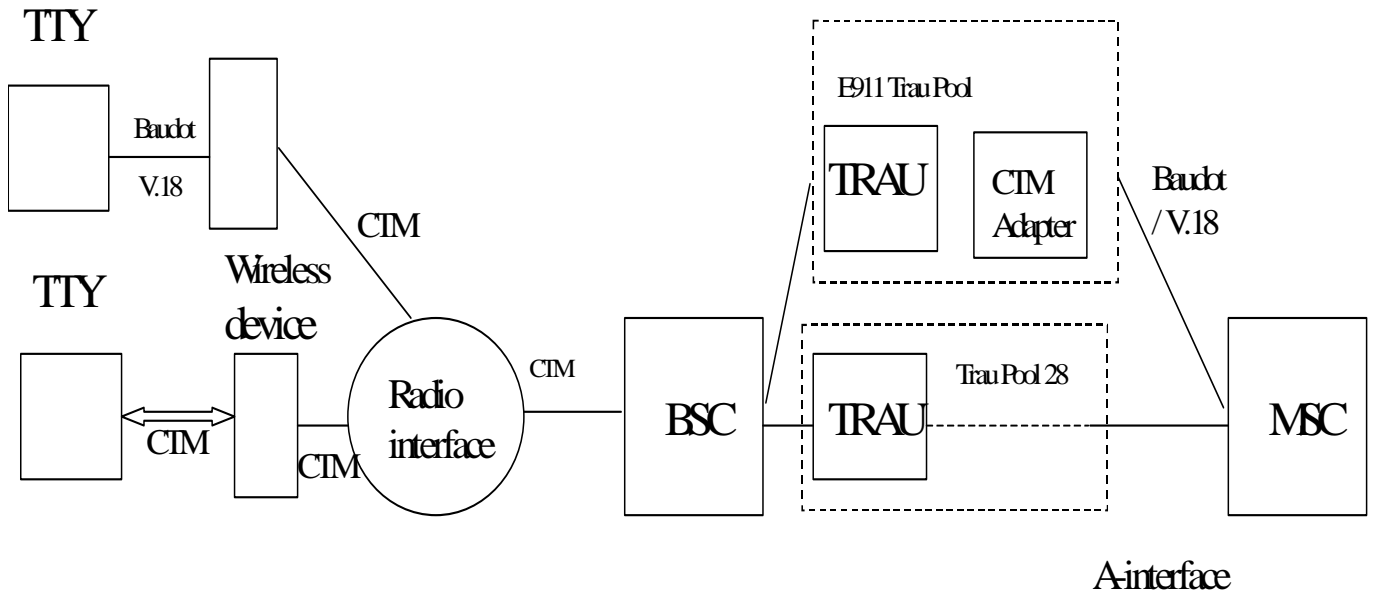
Main Issues

- Every transcoder in the network needs upgrading to support CTM

2 – Pooling of CTM Trau resources (GSM)

Description

In this solution a Trau pool is created which supports the CTM modem. All emergency calls are routed via a CTM (E911) Trau pool using standard techniques defined for trau pooling.



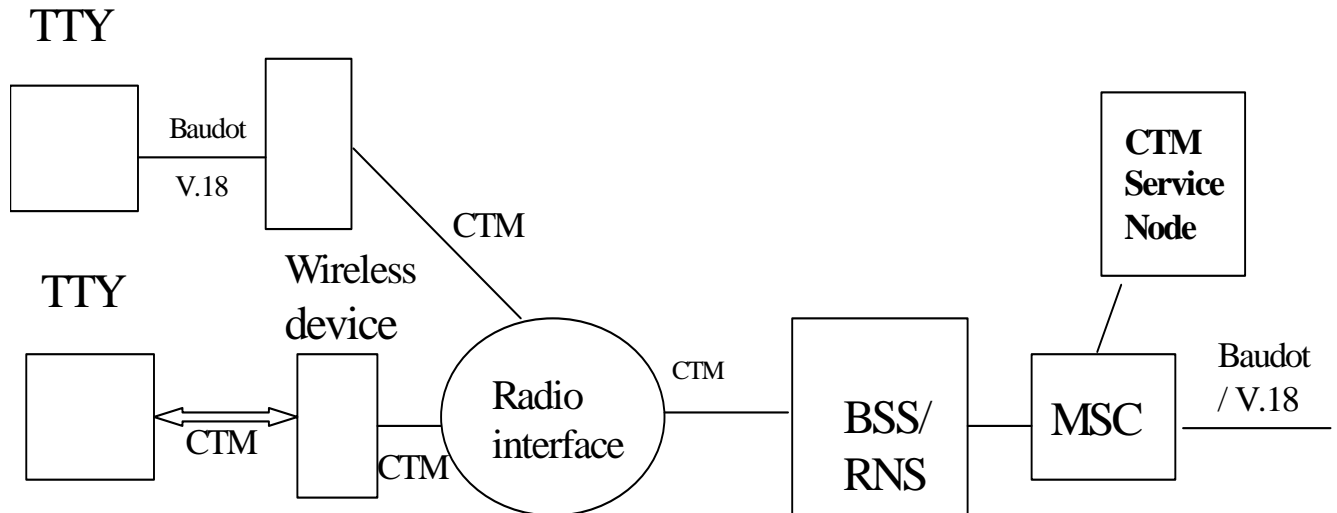
Main Issues

- Call Back – how to ensure that a return call from an emergency call centre is routed via the E911 trau pool - (possible solutions may be CLI identification of the emergency call centre in the MSC linking to the E911 trau pool or bearer capability information obtained from the mobile at call set up)
- 08.08 will need to be updated to show how this category of pool is supported.
- MSC needs to link the emergency call with access to the E911 trau pool.

3 – CTM service node solution (GSM)

Description

In this solution all emergency calls are routed via a CTM service node before being routed to the emergency call centre.



Main Issues

- Call Back - how to ensure that a return call from a emergency call centre is routed via the CTM service node - (Possible solution may be CLI identification of the emergency call centre in the MSC linking to the call to CTM service node before call setup)
- Fault tolerant service node required since all emergency calls from the MSC(s) are being route via it.
- It will be complicated to synchronise echo cancelling, speech enhancement, TrFO and TFO in the Trau with CTM usage.