

**Title:** LS on CBS Functionality and Responsibility

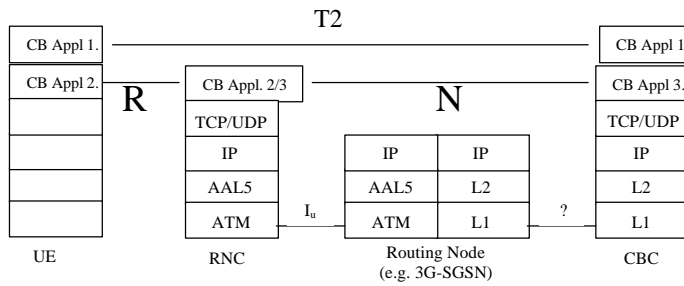
**From:** T2  
**To:** S1, S2, R3, R2, R1, N1, N2

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TSG-T2 SWG3 (Messaging) has discussed the support of CBS in the UMTS networks and has come to the following conclusions:

1. The S1 requirement as we understand it is for the basic CBS (Cell Broadcast Service) to be provided in more or less the same way as GSM, in order that existing features provided via CBS can also be provided on UMTS networks in a similar way, re-using existing equipment like CBCs. This will provide a high degree of compatibility with 2G systems. According to the S1 specifications, there is no requirement for additional functionality, like faster speeds, larger messages and reception of CBS in active mode (i.e. when in a call) but there is a requirement to support transfer of messages when in idle mode with no session (not even a packet session) active. If extra features or enhancements can be supported then these should be identified and communicated to S1, S2 and T2.
2. It is T2's understanding that S1 will address at some point an "Advanced Cell Broadcast Service" which will get over the limitations of the 2G service but this is unlikely to be available in R99.
3. T2 notes the proposed architecture from S2 (S299798), however the diagrams included cloud two functions of Cell Broadcast together and we feel that it is important to separate them.

The first function is the description of the information passed from the CBC to the UE at the highest layer. This is not changed by the RNC (CB Appl 1). The second function is the protocol used between CBC and RNC. (CB Appl 3). In this diagram we also introduce the lower level UE function (CB Appl 2).



T2 has a long history with development of both of these, however T2 recognises the desire of S2 to have the CBC functionality “within” the network and therefore suggests the following approach to responsibility.

- S1 Requirements
- S2 Architecture
- T2 Application Level protocol between CBC and UE (message id, serial number etc. as per 03.41),  
Requirements for CBC/RNC protocol (as per 03.41 requirements for BSC/CBC interface, outlining functions like write/replace),  
Confirmation that technical solutions proposed in other groups can meet S1’s requirements.
- N CBC/RNC protocol (equivalent of 03.49)
- R RNC/UE protocols