

**Agenda Item:** 6.1.7.1  
**Source:** S1  
**Title:** Liaison Statement regarding CS bearer services  
**Liaison To:** TSG-S2, S4, N1, N2, N3, T2

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S1 would like to clarify status of CS bearer services for release '99.

In Section 5.1, UMTS 22.100 (UMTS Phase 1), it is stated as follows: *Circuit switched data: Circuit switched data services and "real time" data services shall be provided for interworking with the PSTN/ISDN so that the user is unaware of the access network used (UMTS and GSM access network or handover between access networks). Both transparent (constant delay) and non-transparent (zero error with flow control) services shall be supported. These data services shall operate with minimum loss of data on handover between the GSM access network and the UTRAN.*

During last S1 meeting a normative reference to 02.02 was added: *UMTS shall support GSM General Bearer Services (GBS) and interworking scenarios as specified in 02.02.*

S1 current understanding is that interworking as specified at 02.02 contains needed scenarios for release '99. Both Asynchronous and Synchronous access modes shall be supported (when suitable) for:

- 3.1kHz Audio modems up to V.90 (0.3kbit/s-56kbit/s)
- V.110 UDI (0.3kbit/s-56kbit/s)
- X.31 flag stuffing UDI (2.4 kbit/s-56kbit/s)
- V.120 (1.2kbit/s-56kbit/s)
- Bit Transparent Mode (56kbit/s and 64kbit/s).

S1 asks N3 to study feasibility to include PIAFS interworking support for release '99.

*Note: that at SMG 1 Edinburgh meeting a CR for rel' 99 to 02.02 v 7.00 was agreed for approval at SMG#29. This was however withdrawn due to comments from CN3/SMG3 WPD. New corrected version of the CR is currently at email approval process at SMG1.*

Requirements for UMTS bearers has been introduced at 22.05., Work on QoS requirements is still ongoing between S1 and S2. S1 invites other WG's to consider how the bearers provided by UTRAN will be mapped to interworking scenarios provided by UMTS core network.

At 02.02 only required QoS attribute for bearers is T/NT mode (transparent (constant delay) and non-transparent (zero error with flow control) modes ).

S1 asks the other WGs to verify above working assumptions for release '99.