

Tokyo, Japan, 9 - 11 March 2005

## Release 6 Submission form

<b>Feature / Item:</b>		<b>Radio access bearer support enhancement</b>				
<b>Affects:</b>	<b>UE/MS:</b>	<b>CN:</b>	<b>UTRAN:</b> x	<b>GERAN:</b>	<b>Compatibility Issues:</b> <b>Yes:</b> <b>No:</b> x	
<b>Expected Completion Date:</b>		<b>June 2005</b>				
<b>Services impacted:</b>		<b>IMS Services over UTRAN</b>				
<b>Specifications affected:</b>		<b>25.323, 25.331, 25.862, 25.993 and 25.306</b>				
<b>Tasks within work which are not complete:</b>			<b>Optimized radio access bearer for IMS on DCH</b>			
<b>Consequences if not included in Release 6:</b>			<b>Suboptimal support of IMS Services in UTRAN</b>			
<b>Accepted by</b> TSG#27		<b>for late inclusion in Release 6:</b>				

**Abstract of document:**

RAN2 identified several technical approaches for optimizing radio access bearers for VoIP. RAN2 currently considers the most promising approach to be the usage of a secondary scrambling code in order to overcome the need for a low SF for handling of variable RTP packet sizes. This was agreed at RAN2#44.

RAN1 discussed Layer 1 simulations for this approach and a LS was sent to RAN4 at RAN1#39, because of the influence on the UE performance requirements. The issue was discussed in RAN4 at RAN4#34 and a reply LS was sent to RAN1 and RAN2 at the end of the meeting. This reply LS has not yet been discussed by RAN1 due to time constraints.

In RAN2 the decision to use the Secondary Scrambling Code solution is on hold until RAN1 has reached a conclusion.

Without an agreement on the SSC solution in Rel6 no optimised solution in terms of code usage, no packet delay and no frame stealing will be available in this release.

At RAN2#46 it was agreed that the use of ROHC shall be made mandatory for release 6 UEs, and these CRs were agreed at the RAN plenary.

**Contentious Issues:**

Conclusion in RAN1 on SIR estimation on both Primary and Secondary Scrambling Code for IL PC, based on reply LS from RAN4 (R2-050701, R4-050220).

Final agreement on Secondary Scrambling Code based solution for rare transmissions of uncompressed or low compressed real time packets.

Agreement on optimised RAB combination in RAN2 to provide VoIP services over DCH efficiently in order to avoid use of 42.8 kbps RAB as defined currently in TS34.108.