TSG RAN Working Group 1 Meeting #9
Dresden, Germany, November 30 - December 3

<div style="text-align: right;">**TSGR1#9(99)i31**</div>

TSG-RAN Working Group 2 (Radio L2 and Radio L3)   TSGR2#8(99)G59
Cheju, Korea, 2 - 5 November 1999

To: **RAN WG1**
Source: **RAN WG2**
Title: **LS on Predefined values for transport format attributes of BCH**

RAN WG2 would like to inform the R2 agreement on "Predefined values for all transport format attributes of BCH" which is asked in the LS from RAN WG1. We have compared the capacity of the actual L23 data (without SFN and scheduling header) for BCH between the cases of TTI=10 ms and TTI=20 ms.

We have agreed that the capacity of BCH should be as large as possible since there might be an expansion of actual L23 data and might be a requirement to increase the repetition time per certain time of period in the future. And also the additional delay(10ms-20ms) by applying TTI=20 ms instead of TTI=10ms is not seen as significant. Therefore we agreed to use TTI=20ms as a predefined TTI for BCH.

Also we have discussed about the transport block size for BCH. Based on the assumption that TTI=20msec, CRC=16its and N_{BCH_RM} =0, our current assumption is to use 246bits as a predefined transport block size for BCH.

TTI	10ms	20ms
CRC	16 bits/TrBLK	16 bits/BLK
Tail bits	8 bits/TrBLK	8 bits/TrBLK
L23 data	111bits/10msec	246bits/20msec
SIB SEG header (Scheduling header)	11bits/TrBLK	11bits/TrBLK
SFN(note1)	12bits/TrBLK	12bits/TrBLK
Capacity of BCH	11.1 kbps	12.3 kbps
Capacity of BCH without SIB SEG header and SFN	8.8 kbps	11.15 kbps
Delay	10msec 20msec	20msec 40msec

Note1: Whether to set SFN for each TrBLK or not is under discussion and will be defined at RAN WG2#9 meeting. In above table, the assumption that 1 SFN per 1 TrBLK is used to compare the BCH capacity.

Note2: Above table only applies to FDD and it is under discussion for TDD.