

Source : RAN WG1, WG2, WG3 & WG4 Chairmen

Title: TSG RAN Release –99 outstanding items handling.

1. Introduction:

This documents presents the proposal for handling the outstanding issues for Release –99. The deadline for Release-99 items is RAN#7 (3/2000).

1. NOT DECIDED ISSUES, TSG RAN GUIDANCE NEEDED

Iur/Iub related

- Load information on Iur (25.423)
- Available capacity estimate in a drift cell
- Capacity modelling of Node B resources (simple solution)

2. RAN WG1 Specific issues still to be covered in Release –99 :

- Compressed mode with puncturing (FDD only)
WG2,WG3 & WG4 to be provided with details as soon as available
- Small size turbo interleavers (FDD+TDD)
WG2 and WG3 to be informed to the parameters
- Out-of-synchronization state handling (FDD+TDD)
WG2 to be informed
- Cell parameter cycling (TDD only)
WG1 only
- Parity bit attachment
To be clarified with WG2
- CPICH SIR measurement
Inclusions to be clarified based on WG4 discussions, WG4 will inform other WGs of the outcome of the feasibility and performance discussion.

3. RAN WG2 Specific issues still to be covered in Release –99

- UE capability in RRC connection establishment
- Cell selection and reselection
 - Solsa
 - Hierachical Cell Structure Support
 - UE behaviour on cell barring
 - Comparison of GSM cell vs. UMST cell
- Downlink Outer Loop Power Control

4. RAN WG3 Specific issues still to be covered in Release –99 :

General

- Performance requirements missing (delay budget still open), cooperate with R2

Iu-related:

- Cell broadcast protocols between SMS-CBC and RNC (may require a new TS) (25.401, 25.413, 25.4xx)
- Iu time alignment (25.402, 25.415)
- Tracing deactivation from CN (25.413)
- SoLSA on Iu (25.401, 25.413), dependent on decision of TSG SA. Technical input required from S2
- Partial relocation (and handover) (solution in R3 exists, pending acknowledgement from other groups), R2 to be involved

Iub and Iur signalling:

- Version handling for the user plane (required mechanisms in the control plane)
- Support of reallocation of physical channel for TDD USCH+DSCH due to harmonisation of model with FDD
- Possibility to perform soft handover during an active compressed mode pattern
- Delayed activation at RL establishment (to solve a possible soft handover problem)
 - WG4 to verify the problem scenario
- Triggering of the Common Transport Channel Resources Initiation procedure (selection of S CCPCH) (Iur)
- Crossing signalling between the Physical Channel Reconfiguration procedure and other procedures. (Iur)
- Definition of DRX Parameter on Iur – possible problem with definition in the RRC specification. Input required from R2. (Iur)
- Iub: Specify what SIBs are mandatory (if any) for Node B to originate on BCCH (input from R2)
- Iub: DSCH (TDD+FDD): signalling of physical channel parameters
- Iub: Alignment of the number of DSCHs supported to one UE (and how to signal TFI in case of >1), input from WG1+WG2 for aligned model of DSCH
- Precise definitions of some optimisation parameters (mean bit rate, RLC mode,

Iur / Iub UP protocol (25.427, 25.435, 25.425)

- Extension mechanisms - compatibility principles – version handling for UP protocols
- DSCH and USCH over Iur (25.423, 25.425), applying same principles as for RACH and FACH

5. For All Working Groups in Rel99

- LCS :
R3 : Support for specific positioning methods (OTDOA, GPS-assisted) on Iur and Iub, based on R2 25.305
R2: LCS stage 2 and RRC signalling
- CPCH
To be included in Release –99 as always optional for the UE. Risks exists for completion 3/2000 in all WGS due related issues in several WGs.
Open items: Channel Allocation scheme, testing aspects, channel monitoring details, CPCH interlayer model, Support in Iur & Iub, Admissing control.

6. Not Included in Release –99

For All Working Groups

- DPCCH gating (FDD)
Reasoning: Open items: Operation in Asymmetric Case, Mandatory vs Optional status, Compressed mode aspects, Performance Aspects, Power Control aspects, Random/Regulator gating patterns.
Not studied on Iur and Iub.
- Uplink Synchronous transmission: Higher layer and Iur and Iub impacts have not been studied at all. Clarifications in WG1 specifications.

R3-specific not in Rel99:

- FACH power control on Iur (25.425)
- DPC Rate Reduction in Soft Handover, DPC mode handling and switching
- TDD Neighbour cell measurement (not supported in WG1)
 - This is NodeB to NodeB measurement
- Reconfiguration of DL TPC step size