Kyoto, Japan

Source: TSG RAN WG1 Chairman

# Proposed way forward for SSDT in UTRAN (revised based in TSG RAN discussion)

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### SSDT in Rel'99 (as reported in RP-010733)

- There was discussion on SSDT operation on it own and also in combination with other featureres:
- There was a CR agreed conditionally (if SSDT is kept in Rel'99) to clarify the UE TPC operation in SHO with SSDT
- For the UTRAN side, there is conflict with WG1 and WG3 specs as noticed in WG4, the threshold parameter for Node B is assumed to be given by the network (WG1) specs, but this is not supported by WG3 specs. This was expected to have problem is multivendor environment but exact way how to proceed was not agreed. Proponents were invited to input the proposed CR directly to TSG RAN for discussion. The views on the severity of the problems varied

#### SSDT in Rel'99 (cont.)

- Possible solutions:
  - a) Fix everything in Rel'99
  - b) Fix everything but also restrict the SSDT in combination with TX diversity (closed loop)
  - c) As a or b but make SSDT optional
  - d) Remove SSDT from Release'99, Fix SSDT for Rel'4
  - e) Remove SSDT from Release'99 & Rel'4, move & fix it to Rel'5
- TSG RAN WG1 was not able to reach consensus on the approach, thus TSG RAN guidance is asked
- Related papers: RP-010775 Conditionally agreed Rel'99 CR on the issue (agreed if TSG RAN decides to fix SSDT in Rel'99)

## SSDT in Rel'99 evening discussions during TSG RAN meeting

- Covered Papers:
  - Tdoc 903
  - Tdoc 901
- Open points discussed
  - Node B quality threshold for SSDT operation
    - Parameter not defined (in specs, O&M assumed, RRM relation?)
    - WG1 spec assumed as signaled parameter, WG3 specs do not cover the parameter
    - Problem in multivendor environment
  - Combination of TPC commands
    - Impacts UE depending on interpretation of the specs
    - Conditional CR in Tdoc 775
  - SSDT + closed loop TX diversity
    - Is operating jointly sensible? And does UE operate then correctly?
    - Tx diversity adjust phases assuming data (DPDCH) is coming from all cells, SSDT controls which cell transmits the data (DPDCH).
    - To exclude closed loop transmit diversity and SSDT.



#### Proposed actions

- Actions:
- 1. CR in Tdoc 775 to be approved
- 2 CR restricting the combination of SSDT & closed loop TX diversity to be created for 25.211 & 25.214
- 3. CR clarifying the meaning of primary cell (being from UE point of view the primary cell as assumed by the UE) for 25.214
- 4. WI to be created on UTRAN SSDT support (Qth in Node B & lub/lur) (completition date 03/2002)
- 5. SI to be created on SSDT improvements
- Schedule: Set of CRs available Day 3 Morning & to be distributed on the WG1 reflector. For approval on Day 4 as well as the WI. SI creation for TSG RAN#15

