

**3GPP RAN Plenary #21 Meeting**  
**Frankfurt, Germany**  
Tuesday 16<sup>th</sup> through Friday 19<sup>th</sup> September, 2003

RP-030379

T1P1.2/2003-094

**Title:** UMTS 850 WI Update  
**Document for:** Review  
**Source:** WI Rapporteur – Don Zelmer – Cingular Wireless  
**Agenda Item** 8.1.3

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Status Report for WI to 3GPP TSG RAN Plenary

**Work Item Name:** "UMTS 850"

**SOURCE:** Don Zelmer-Cingular Wireless LLC **TSG:** RAN

**E-mail address Rapporteur:** [don.zelmer@cingular.com](mailto:don.zelmer@cingular.com)

**Ref. to WI sheet:** [ftp://ftp.3gpp.org/tsg\\_ran/TSG\\_RAN/Work\\_Item\\_sheets/](ftp://ftp.3gpp.org/tsg_ran/TSG_RAN/Work_Item_sheets/) (originally RP-020875)

**Progress Report since the last TSG (for all involved WGs):**

Since RAN #20,

**T1P1.2 meeting in Colorado Springs, Co. – USA, 5-8 August 2003:**

- ?? Reviewed and updated participants concerning some of the regulatory issues coming out of the FCC, including some of the Public Safety interference issues in the US 850 Cellular band.
- ?? Simulation documents dealing with 850 MHz. were reviewed:
  - o Document T1P1.2/2003-076 from Lucent dealing with 850 interference
  - o Document T1P1.2/2003-077 from Motorola dealing with 850 DL interference
  - o Document T1P1.2/2003-078 from Motorola dealing with 850 UL interference
- ?? The discussions concerning the differences between the results were continued via e-mail on the T1P1.2 and RAN 4 reflectors.
- ?? To further discuss any unresolved issues, T1P1.2 conference calls were set up for:
  - o Thursday 11 September 2003 at 11AM EDT
  - o Tuesday 28 October 2003 at 11 AM EST
  - o Conference call notices will be posted on the T1P1.2 reflector, the T1P1.2 web site, and the RAN4 reflector

**3GPP TSG RAN WG4 meeting in Sofia Antipolis, France, 18-22 August 2003**

- ?? Reviewed R4-030789 WI update from T1P1.2 - from Nokia
- ?? Reviewed R4-030783 "Methodology for coexistence studies of UTRA FDD with other radio technologies" also reviewed CR 011r1 to 25.942 Rel-6 from Nokia, Motorola and Lucent.
  - o Some discussion about the cell radii with disagreements concerning the original 1900 work. The CR was agreed.
- ?? Reviewed R4-030767 "UMTS 850/GSM coexistence simulation results for the downlink scenarios" from Motorola
- ?? Reviewed R4-030768 "UMTS 850/GSM coexistence simulation results for the uplink scenarios" from Motorola
- ?? Reviewed R4-030739 "UMTS850/GSM850 Co-existence Simulations Results for Downlink" from Lucent.
  - o Some discussion concerning the simulation assumptions (interferers and BCCH-power).
  - o It was noted that the Lucent and Motorola results were somewhat different and are being studied off line.

- ?? Reviewed R4-030726 "Changes in TS25.101 and TS25.104 according to UMTS 850 WI" (Nokia)
- ?? Reviewed R4-030740 "Defining BS and UE demodulation performance requirements for UMTS 850" (Lucent)

?? **T1P1.2 – 11 September 2003 Meeting:**

- o Reviewed R4-030740 (T1P1.2/2003-090) – from Lucent
- o Reviewed R4-030726 (T1P1.2/2003-085) – from Nokia
- o Discussion:
  - ~~o~~ Some thought an intermediate speed (120 km/h) should be simulated
  - ~~o~~ Some thought there was no need to make additional simulations at 120 km/h
  - ~~o~~ Qualcomm and Lucent will proceed with additional interference simulations and present their results in a T1P1.2 meeting (conference call) on Tuesday October 28th. All issues will be worked between October 28th and the regularly scheduled T1P1.2 meeting scheduled for the week of 4 November. These issues have been reserved to be discussed beginning on November 5th at 9:30 AM Las Vegas time (PST).
- o Reviewed T1P1.2/2003-093 "Discussion on UMTS 850/GSM coexistence simulation results" (Motorola) which discussed the reasoning 'why UMTS capacity losses would be more important in the urban environment in the case of downlink (GSM BTS->UMTS UE), and in the suburban environment in the case of uplink (GSM MS->UMTS BS).

?? **Future Meeting Schedule:**

- ?? The next meeting of T1P1.2 will be a conference call to review any additional simulations in the 850 band (conference call) on Tuesday October 28th at 11 AM EST. The meeting notice and agenda will be posted on the RAN4, T1P1.2 reflectors, and the T1P1.2 web site.
- ?? T1P1.2 will meet in Las Vegas, Nevada November 4-7, 2003
  - o The portion of T1P1.2 meeting dealing with UMTS @ 850 and related items will be held on Wednesday, 5 November 2003 beginning at 9:30 AMPST (Las Vegas time) the call in particulars and meeting notice will be posted on the T1P1.2 reflector, T1P1.2 web site, and the RAN4 reflector.
  - o We are hopeful that all issues dealing with UMTS @ 850 will be completed by the end of the November T1P1.2 meeting and final recommendations will be presented into RAN4 # 29
- ?? T1P1 regularly scheduled meeting, 20 – 23 January 2004 in TBD

**List of Completed elements (for complex work items):**

- ?? Analysis of existing 850 Cellular band plan – complete
- ?? Simulation assumptions – complete
- ?? In-band Interference scenarios – complete

**List of open issues:**

- ?? Simulations – On Going
- ?? Unsure just how the FCC will rule on some of the adjacent bands below 824/869 MHz and above 849/894 MHz.
- ?? Final agreement on utilizing results from earlier simulations in the 1900 band
- ?? Final Documentation to be decided by RAN4

**Estimates of the level of completion (when possible):**

- o 40%

**WI completion date review resulting from the discussion at the working group:**

- o RAN #23

**References to WG's internal documentation and/or TRs (within this package):**

- o T1P1.2/2003-052R2 (3P120522) which is the same as R4-030558
- o R4-030783 CR to 25.942.