

1 **Title:**

2 **APPROVED SUMMARY OF TSG-C MEETING**
3 **for 21 April 2008 Interim Plenary Conference Call**

4 **Source:**

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17
18 **Abstract:**

19 This document is a summary of the 3GPP2 TSG-C meeting that was held via conference call on 21 April 2008.
20

21 **Recommendations:**

22 For review and approval.
23

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1 On 21 April 2008, an interim Plenary conference call of 3GPP2 TSG-C meetings was held. This document is
2 intended to summarize those proceedings.

3 4 OPENING PLENARY

5 1. CALL TO ORDER AND OPENING REMARKS: The meeting was called to order on 21 April 2008 at
6 8:06 PM US east coast time by TSG-C Chair, Dennis Gentzler (Alltel).

7 2. ATTENDANCE REGISTRATION AND ROLL CALL: A roll call of companies indicated that 19
8 companies included on the list of 29 active quorum members were present (66% participation). Thus,
9 meeting quorum was achieved.

10 The Secretary noted that no proxy statements had been received for this meeting.

11 3. INTRODUCTION AND NUMBERING OF CONTRIBUTIONS: Contributions were loaded onto the
12 3GPP2 ftp site and listed in the document register (C00-20080421- 000).

13 4. AGENDA APPROVAL: The proposed agenda (C00-20080421-001R1) was presented.

14 **DECISION: The agenda was approved without objection as modified by the discussion (C00-**
15 **20080421-001R1).**

16 The Chair noted the following items were planned for discussion on this call:

- 17 • EMAH output on UMB characterization
- 18 • Any outstanding issues related to HDP
- 19 • 3GPP2 Workshop logistics

20 5. ASSIGNMENTS OF CONTRIBUTIONS TO AGENDA ITEMS: Contributions were assigned to
21 agenda items as noted on the agenda.

22 6. OLD BUSINESS: The following contributions were discussed:

- 23 • The interim WG3 Report (C00-20080421-003) was presented by the WG3 Chair, Ed Tiedemann
24 (Qualcomm) as FYI.
- 25 • During the WG3 review of the HDP document, a question was raised on whether one (1)
26 of the technical R&F comments accepted by WG2 caused a problem. The experts on the
27 call were unsure whether this caused a problem or not and needed some time to
28 investigate. As a result, it was decided to postpone approval of both versions of HDP text
29 until this issue could be better understood. It is expected that the document will be
30 approved for V&V in Osaka.

31 The Chair made a recommendation, given length of time that this issue has remained
32 open and the completeness of HDP and the fact that further development work is required
33 for HRPD Enhancements, that HDP be approved as a standalone document on an
34 exceptional basis. Specifically, TSG-C still needs to discuss the strategy for developing
35 and documenting enhancements to HRPD and the action with respect to HDP will not be
36 considered as precedence on this issue. **DE CISION: HDP was approved to be**
37 **published as a standalone document on an exceptional basis.**

ACTION: WG1 was directed to make the assignment of a new document number for HDP.

- WG3 EMAH has decided that some additional optimization and verification should be done on the Forward Link evaluations being done by EMAH. There were also some suggestions on the format of the output document. Several additional days would be needed to complete this. Since WG3 was not able to schedule a meeting with such short notice, it was decided to continue the EMAH work by email, have an EMAH meeting just before this interim Plenary, and then have EMAH directly submit the EMAH evaluation output document to this Plenary session.
- The Preliminary UMB Performance Report (C00-20080421-002) was presented by WG3 EMAH Vice-Chair, Satoshi Konishi (KDDI).
 - **BACKGROUND:** In April 2007, 3GPP2 published a preliminary version of the UMB^{TM1} (Ultra Mobile BroadbandTM) air interface. In September 2007, version 2.0 of UMBTM was published. In June 2007, 3GPP2 TSG-C (Technical Specification Group C) agreed to begin the performance characterization of UMBTM. This report is a preliminary report of the 3GPP2 TSG-C performance characterization of UMBTM.
 - **KEY ASPECTS OF THE DEVELOPMENT PROCESS:**
 - Development of an evaluation methodology,
 - Calibration between companies, and
 - Generation of results
 - **CALIBRATION LEVELS**
 - Link Level
 - System Level
 - Forward Link (FL) Full-Buffer (FB) traffic with 1x2 SIMO,
 - Forward Link (FL) Full-Buffer (FB) traffic with 2x2 MIMO,
 - Reverse Link (RL) Full-Buffer traffic,
 - Forward Link VoIP, and
 - Reverse Link VoIP
 - In addition to the key simulation parameters, FL overhead assumptions, and RL overhead assumptions, the following additional configuration aspects were used for full buffer simulations:
 - An equal resource scheduler, that is similar to proportional fair
 - No power control was used for the FL
 - OSI-based power control with DataCtoI range [-3 dB,10 dB] and IoTtarget of 7.5 dB was used for the RL
 - A SIMO 1x2 was used for the RL

¹ Ultra Mobile BroadbandTM and (UMBTM) are trade and service marks owned by the CDMA Development Group (CDG).
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- Either a SIMO 1x2 antenna configuration or MIMO 2x2 antenna configuration with precoding (64 precoding matrices were used) and rank selection was used for the FL
- For VoIP simulations, the following additional configuration aspects were used:
 - Target termination based power control was used
 - SIMO 1x2 was used for both the FL and RL

The Chair thanked the EMAH group for their outstanding efforts in this development effort.

DECISION: The Preliminary UMB Performance Report (C00-20080421-002) was approved without objection for transmittal to external organizations based on the strategic decisions to be completed by the TSG-C elected leadership in consultation with the 3GPP2 Secretariat. The TSG also approved that a copy will also be sent to TSG-S and CDG.

- The Proposed 3GPP2 TSG-C presentation to the Special Workshop (C00-20080331-110) was noted. The NTAH Chair, Anthony Soong (Huawei), noted that no comments had been received to date. He suggested that all TSG-C participants continue to review and bring comments to the NTAH meeting on Monday afternoon in Osaka.

7. FUTURE MEETING SCHEDULE:

12-16 May 2008	Hotel New Otani Osaka in Osaka, Japan
16-20 June 2008	JW Marriott Hotel Cancun in Cancun, Mexico
21-25 July 2008	Ritz-Carlton Orlando Grande Lakes in Orlando, FL, USA

8. OPEN DISCUSSION AND OTHER BUSINESS: The following issues were discussed:

- The Secretary confirmed that meeting rooms would be available until 10:00 PM in Osaka.
- The Secretary noted that SWG1.2 has now decided not to meet in Osaka.
- The TR45.5 Chair noted that, if an interim Plenary conference call is required between Osaka and Cancun, the date for that meeting must be determined on Monday in Osaka, either at opening or at an interim Plenary that same night.

9. ASSIGNMENTS: The open action items, other than standard document remands, are noted below:

071203-001 WGs should review their ToRs to make sure they are consistent with the new TSG-C ToR. Final input from WG1 and WG4 is still outstanding.

080331-002 TSG-C participants who decide to submit their WI proposal for TSG-C only activities directly to TSG-S are requested to provide a courtesy copy to TSG-C in parallel with the submission to TSG-S.

080331-003 The Chair directed that proposals for enhancements to UMB must be directed to NTAH for discussion. Existing contributions on that topic in the WGs should also be forwarded to NTAH. Contributions on UMB bug fixes or work on non-UMB technologies should be directed to the applicable WG.

1 080331-004 The Chair directed that NTAH take the lead on coordinating TSG-C inputs into the
2 3GPP2 Workshop in Osaka. All WGs are directed to make their inputs on this subject to NTAH.
3 WG4 comments are still outstanding.

4 080331-005 The Chair reiterated his request for support and additional participation in WG4 to
5 progress the work on UMB test specifications. The specific need is for coordinated simulation
6 data.

7 080331-006 Proposed 3GPP2 TSG-C presentation to the Special Workshop (C00-20080331-110) was
8 presented. This contribution was remanded to all WGs and AdHocs for review and comment
9 with comments to be coordinated by NTAH. The contribution will also be held OPEN at the
10 Plenary level.

11 080331-007 Correspondence to TSG-C dated 3 April 2008 regarding joint meeting for comments
12 resolution on S.P0126-0 v0.2.0 Systems Requirements for Femto Cell Systems (C00-20080331-
13 130) was presented from TSG-S. This contribution was remanded to WG1 and WG2 for review
14 and comment with comments to be coordinated by WG1 and to WG3 as FYI. The WG1 Chair
15 will also represent TSG-C in the joint meeting.

16 10. ADJOURNMENT: The Plenary was adjourned on 21 April 2008 at 8:57 PM local time.
17

NUMBER	SUBJECT	SOURCE	ACTION
OPENING PLENARY – C00-20080331-			
000	DOCUMENT REGISTER	SECRETARY	FYI
001	AGENDA	CHAIR	APPROVAL
002	Preliminary UMB Performance Report	WG3 EMAH	FYI
003	WG3 Interim Report	WG3	FYI

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3GPP2 QUORUM ROLL CALL
 TSG-C (cdma2000 Air Interface)
 Interim Plenary Conference Call
 21-Apr-08

INDIVIDUAL MEMBER COMPANY	Attendance		Consec Mtgs Missed	Voting Status	Quorum Status	Voting Status	Quorum Status
	4/21/2008		Including this Mtg	This Meeting	This Meeting	Next Meeting*	Next Meeting*
AGILENT TECHNOLOGIES			3	1	1	0	0
AIRCELL	1		0	1	0	1	1
AIRVANA	1		0	1	1	1	1
ALCATEL-LUCENT	1		0	1	1	1	1
ALLTEL	1		0	1	1	1	1
CHINA UNICOM			2	1	1	1	1
DOCOMO US LABORATORIES			1	1	1	1	1
ERICSSON	1		0	1	1	1	1
GEMALTO			1	1	1	1	1
HITACHI	1		0	1	1	1	1
HUAWEI	1		0	1	1	1	1
KDDI	1		0	1	1	1	1
KYOCERA	1		0	1	1	1	1
LG ELECTRONICS	1		0	1	1	1	1
LG TELECOM			3	1	1	0	0
MARKETING INFORMATION TECHNOLOGY			3	0	0	0	0
MOBILE SATELLITE VENTURES	1		0	1	0	1	1
MOTOROLA	1		0	1	1	1	1
NEC			1	1	1	1	1
NOKIA			3	0	0	0	0
NORTEL NETWORKS	1		0	1	1	1	1
QUALCOMM	1		0	1	1	1	1
RESEARCH IN MOTION			1	1	1	1	1
RITT			2	1	1	1	1
ROHDE & SCHWARZ	1		0	1	1	1	1
SAMSUNG	1		0	1	1	1	1
SIERRA WIRELESS	1		0	1	1	1	1
SIRF TECHNOLOGIES			3	0	0	0	0
SK TELECOM			2	1	1	1	1
SPIRENT COMMUNICATIONS			1	1	1	1	1
SPRINT/NEXTEL	1		0	1	1	1	1
VERIZON WIRELESS	1		0	1	1	1	1
VIA TELECOM	1		0	1	1	1	1
ZTE	1		0	1	1	1	1
TOTALS	19	0		31	29	29	29
QUORUM CALCULATION	66%	0%					
ADDITIONS							
ARIB	1						

QUORUM STATUS NOTES:
 - HIGHLIGHTED ZERO = Must attend 2 consecutive mtgs to be added to quorum list
 - NON-HIGHLIGHTED ZERO = Will be added to quorum list next mtg if they attend
 P = Letter of Proxy in effect
 * Next Meeting status based on the assumption that the company will be present at the next meeting.