

Title:

APPROVED SUMMARY OF 3GPP2 TSG-C MEETINGS
for 5-9 August 2002 in Portland, OR (USA)

Source:

Phil Brown

SECRETARY (acting)

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**Abstract:**

This document is a summary of the 3GPP2 TSG-C meetings that were held during the period of 5-9 August 2002 in Portland, OR.

Recommendation:

Review and adopt.

Notice:

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1 During the period of 5-9 August 2002, 3GPP2 TSG-C meetings were held at the Doubletree
2 Lloyd Center Hotel in Portland, OR. This document is intended to summarize those
3 proceedings.

4 **OPENING PLENARY**

- 5 **1. CALL TO ORDER AND OPENING REMARKS:** The meeting was called to order at
6 8:45 AM local time on 5 August 2002 by the TSG-C Chair, Jean Alphonse (Lucent). The
7 Chair noted that the Secretary, Clif Barber, was unable to attend the meeting and that Phil
8 Brown (Ericsson) would serve as Secretary for this meeting.
- 9 **2. ATTENDANCE REGISTRATION AND ROLL CALL:** A roll call of companies
10 indicated that 24 companies included on the list of 39 active members were present.
11 Thus, quorum was established (62% participation). The (acting) Secretary noted that no
12 proxies had been received.
- 13 **3. INTRODUCTION AND NUMBERING OF CONTRIBUTIONS:** Contributions were
14 loaded onto the TSG-C network server and were listed in the document register
15 (C00-20020805-000).
- 16 **4. AGENDA APPROVAL:** The proposed agenda (C00-20020805-001) was presented.
17 **DECISION: The agenda (C00-20020805-001) was approved without objection.**
- 18 **5. ASSIGNMENT OF CONTRIBUTIONS TO AGENDA ITEMS:** Contributions were
19 assigned to agenda items as noted on the agenda.
- 20 **6. APPROVAL OF PREVIOUS MEETING SUMMARY:** The meeting summary of the
21 July, 2002 meeting in San Diego (C00-20020805-002) was presented.
22 **DECISION: The previous meeting summary (C00-20020805-002) was approved**
23 **without objection.**
24 The meeting summary of the June, 2002 meeting in Shenzhen, China (C00-20020708-
25 **002)** was reintroduced because it had been overlooked at the meeting in July. There was
26 a lengthy discussion about whether the actions at the meeting in Shenzhen should be
27 summarized at all, due to the fact that quorum was never established. Although no
28 official action could be taken by the Plenary at that meeting, the meeting did take place
29 and it was agreed that a summary of the proceedings was still necessary.
30 **ACTION: C00-20020708-002 was carried forward for action at the next Plenary**
31 **meeting, pending inclusion of a statement that the meeting was “unofficial” due to**
32 **the lack of quorum.**

1 **7. CORRESPONDENCE:**

- 2 • A contribution from the 3GPP2 Secretariat concerning the most recent 3GPP2
3 Work Plan for TSG-C (C00-20020805-023) was presented.
4 **ACTION: C00-20020805-023 was remanded to WG1 for review and**
5 **comment by the September closing Plenary.**

6 **8. LIAISON REPORTS:**7 **d) TSG-A**

8 Correspondence from TSG-A concerning the *MS Registered Message* (C00-
9 20020805-024) was presented.

10 **ACTION: C00-20020805-024 was remanded to WG2 for review and action**
11 **by the closing Plenary.**

12 **e) TSG-N**

13 Correspondence from TSG-N addressed to TSG-A concerning QoS Support in the
14 IOS (C00-20020805-013) was presented.

15 **ACTION: C00-20020805-013 was remanded to WG2 for review and action**
16 **as appropriate.**

17 **f) TSG-S**

18 Correspondence from TSG-S concerning Initial Review of End-to-End QoS Stage
19 1 (C00-20020805-003) was presented.

20 **ACTION: C00-20020805-003 was remanded to WG1, WG2 and WG3 for**
21 **review and action by the closing Plenary.**

22 Correspondence from TSG-S concerning Initial Review of Packet Prepaid Service
23 Stage 1 (C00-20020805-004) was presented.

24 **ACTION: C00-20020805-004 was remanded to WG1, WG2 and WG3 for**
25 **review and action by the closing Plenary.**

26 Correspondence from TSG-S concerning Review of Packet Prepaid Service Work
27 Item (C00-20020805-005) was presented.

28 **ACTION: C00-20020805-005 was remanded to WG1, WG2 and WG3 for**
29 **review and action by the closing Plenary.**

30 Correspondence from TSG-S concerning Approved NAM Updates (C00-
31 20020805-006) was presented.

32 **ACTION: C00-20020805-006 was remanded to WG1, WG2 and WG3 FYI.**

33 Correspondence from TSG-S concerning 3GPP2 MMD and 3GPP IMS Release 5
34 Gap Analyses (C00-20020805-007) was presented.

35 **ACTION: C00-20020805-007 was remanded to WG1 and WG2 FYI.**

36 Correspondence from TSG-S concerning IOTA Stage 1 comments (C00-
37 20020805-008) was presented.

38 **ACTION: C00-20020805-008 was considered to be FYI for the TSG.**

1 Correspondence from TSG-S addressed to TSG-A concerning Multiple Service
2 Instances (C00-20020805-009) was presented.

3 **ACTION: C00-20020805-009 was remanded to WG1 and WG2 FYI.**

4 Correspondence from TSG-S concerning three new Work Items for review (C00-
5 20020805-010) was presented.

6 **ACTION: C00-20020805-010 was remanded to WG1, WG2 and WG3 for**
7 **review and action by the September closing Plenary.**

8 Correspondence from TSG-S concerning Review of Enhanced Process Guidelines
9 (C00-20020805-012) was presented.

10 **ACTION: C00-20020805-012 was remanded to WG1, WG2 and WG3 for**
11 **review and action by the September closing Plenary.**

12 Correspondence from TSG-S addressed to TSG-N concerning Release Candidate
13 Work Items (C00-20020805-014) was presented.

14 **ACTION: C00-20020805-014 was considered to be FYI for the TSG.**

15 Correspondence from TSG-S addressed to TSG-N concerning TSG-N comments
16 on Subscribed Rate Stage 1 (C00-20020805-015) was presented.

17 **ACTION: C00-20020805-015 was considered to be FYI for the TSG.**

18 Correspondence from TSG-S concerning TSG Review of S.P0078 Common
19 Security Algorithms (C00-20020805-021) was presented.

20 **ACTION: C00-20020805-021 was remanded to WG1, WG2 and WG3 for**
21 **review and action as appropriate.**

22 Correspondence from TSG-S concerning Trial of New Process for Stage 1
23 Review (C00-20020805-022) was presented.

24 **ACTION: C00-20020805-022 was remanded to WG1, WG2 and WG3 for**
25 **review and action by the closing Plenary.**

26 **g) TSG-P**

27 Correspondence from TSG-P concerning 3GPP2-IETF Draft Dependencies List
28 (C00-20020805-025) was presented.

29 **ACTION: C00-20020805-025 was remanded to WG1 and WG2 FYI.**

30 Correspondence from TSG-P addressed to TSG-A concerning TSG-A Activities
31 Regarding 1xEV-DV in IOS V5.0 (C00-20020805-026) was presented.

32 **ACTION: C00-20020805-026 was considered to be FYI for the TSG.**

33 Correspondence from TSG-P addressed to TSG-S concerning Subscribed Rate for
34 Packet Data Service Stage 1 comments (C00-20020805-027) was presented.

35 **ACTION: C00-20020805-027 was remanded to WG1, WG2 and WG3 for**
36 **review and action as appropriate.**

37 Correspondence from TSG-P addressed to TSG-S concerning TSG-P
38 Broadcast/Multicast System Requirements (C00-20020805-028) was presented.

39 **ACTION: C00-20020805-028 was remanded to WG1, WG2 and WG3 for**
40 **review and action as appropriate.**

1 **9. WORKING GROUP REPORTS:**

- 2 • **WG4 REPORT:** WG4 had approved two documents for SDO Review during
3 conference calls prior to the opening Plenary, so both were presented for approval.

4 Draft SDO Review text for C.P0029-0 v3.0 (C00-20020805-029), Test Application
5 Specification for HRPD Addendum 1, was presented.

6 **DECISION: C00-20020805-029 was approved without objection as SDO Review**
7 **text for C.P0029-0 v3.0 (i.e., next point release).**

8 Draft SDO Review text for C.P0026-0 v3.0 (C00-20020805-030), Test Data Service
9 Option Addendum 1, was presented.

10 **DECISION: C00-20020805-030 was approved without objection as SDO Review**
11 **text for C.P0026-0 v3.0 (i.e., next point release).**

- 12 • **WG1 REPORT:** The WG1 Chair, Phil Brown (Ericsson), introduced a contribution
13 summarizing cdma2000 Revision D work planning efforts to date and outlining a set of
14 candidate work items (C00-20020805-031).

15 **ACTION: C00-20020805-031 was considered to be FYI for the TSG.**

16 **10. OLD BUSINESS:**

17 **a) Release A Addendum 3 (carried forward from 17 May 2002 Closing Plenary)**

18 The Chair received no response when he asked the group if there was any change
19 in status with respect to the Sync Channel issue or any interest in considering the
20 existing documents for baseline text. There was a question as to why this item is
21 continuing to be carried on the TSG agenda, to which the Chair replied that ample
22 time must be allowed for review and comment in order to fulfill the directive from
23 the Steering Committee.

24 **b) ITU Process/Approval**

25 There was no discussion of this agenda item.

26 **c) C.P9021 LLA ROHC Service Option for Voice Over IP Operation – V&V**

27 There was no discussion of this agenda item.

28 **11. NEW BUSINESS:**

- 29 • A contribution from Telus Mobility requesting a new addendum to cdma2000
30 Revision C for improved Reverse Link bandwidth (C00-20020805-011) was
31 presented. The contribution stated that RL data rates in excess of 300 kbps are
32 needed to support some peer-to-peer and telecommuting applications. The WG3
33 Chair pointed out that the existing 1xEV-DV RL already supports a data rate of
34 307 kbps, and that new capabilities – such as enhancing data rates – are generally
35 added through revisions to the specification (whereas addenda are meant to
36 provide technical corrections to existing capabilities).

37 **ACTION: C00-20020805-011 was remanded to WG1 for review and action**
38 **(with respect to Rev. D planning) and to WG2 and WG3 FYI.**

- 1 • A contribution from Lucent Technologies proposing work items for the 2003
2 TSG-C workplan (**C00-20020805-016**) was presented.
3 **ACTION: C00-20020805-016 was remanded to WG1 for review and action.**
- 4 • A contribution from Research In Motion proposing additions to the Voice Mail
5 Notification Teleservice in C.S0015 (**C00-20020805-017**) was presented. There
6 was a question about why this capability was not being proposed as an
7 application-level service and whether TSG-N was involved or not; the response
8 was that the proposal is simply an enhancement to an existing SMS teleservice.
9 RIM also suggested that they would be bringing a more detailed technical
10 proposal to the September meeting.
11 **ACTION: C00-20020805-017 was remanded to WG1 for review and action.**
- 12 • A contribution from QUALCOMM requesting development of a specification for
13 electro-acoustical requirements for CDMA Mobile Stations and Base Stations
14 (**C00-20020805-018**) was presented.
15 **ACTION: C00-20020805-018 was remanded to WG1 for review and action.**
- 16 • A contribution from QUALCOMM requesting addition of a work item to the
17 TSG-C workplan for HRPD Broadcast (**C00-20020805-019**) was presented.
18 **ACTION: C00-20020805-019 was remanded to WG1 for review and action.**
- 19 • A contribution from Alltel, Bell Mobility and Sprint PCS identifying priority
20 work items for cdma2000 Revision D (**C00-20020805-020**) was presented.
21 **ACTION: C00-20020805-020 was remanded to WG1 for review and action.**

22 The Plenary meeting was recessed on 5 August 2002 at 11:10 AM local time.

23 **CLOSING PLENARY**

24 The Plenary meeting was reconvened on 9 August 2002 at 8:35 AM local time.

25 Quorum had been established at the Opening Plenary and was not challenged at this time. Two
26 (2) additional member companies were noted in attendance.

27 **9. WORKING GROUP REPORTS (continued):**

- 28 • **WG4 REPORT:** The WG4 report (**C00-20020805-104**) was presented by the SWG4.2
29 Chair, Kurt Bantle (Spirent Communications), as FYI.

30 The WG agreed that C.S0031 should be discontinued, and that six separate documents
31 should take its place. The WG requested assignment of two new project numbers as the
32 first phase of developing this new suite of specifications.

33 **DECISION: Approved assignment of two new project numbers, as follows:**

- 34 • **C.P0043: Signaling Conformance Test Specification for cdma2000 Air Interface,**
35 • **C.P0044: Interoperability Test Specification for cdma2000 Air Interface.**

- 1 • **WG3 REPORT:** The WG3 report (C00-20020805-103) was presented by the WG3
2 Chair, Ed Tiedemann (QUALCOMM), as FYI.
- 3 • Reviewed Stage 1 documents for End-to-End QoS [S.P0079] and Packet Prepaid
4 Service [S.P0084]; WG3 did not have any comments on either one. Reviewed
5 Work Item descriptions for Packet Prepaid Service, Network Initiated Data
6 Session (NIDS), IP-Based Location Service, and Security Framework for Data
7 Services via HRPD; none of these Work Items was believed to affect the Physical
8 Layer. Reviewed the IP Network Architecture Model and determined that there is
9 no impact on the Physical Layer.
- 10 • Received an overview of the Spatial Channel Modeling work in the joint
11 3GPP/3GPP2 ad hoc meeting. The group will meet again in Quebec (October)
12 and San Diego (January), with a target of completing the work by March, 2003.
- 13 • Spent considerable time discussing and reviewing updates to the (1xEV-DV)
14 evaluation strawman. The WG agreed to publish the final document as a 3GPP2
15 Technical Report (an informative document, not a technical specification).
- 16 • Received a report on the activity of the ITU ad hoc group. It was determined that
17 submissions need to be sent in by September 18th, 2002, in order to be included
18 for the next M.1457-3 update.
- 19 • Approved inclusion of Band Class 10 and Band Class 11 in the point release of
20 C.S0024 (developed by WG2).

21 WG3 requested assignment of a project number for the evaluation strawman document,
22 which will be published as a 3GPP2 Technical Report.

23 **DECISION: Approved assignment of project number C.P1002, entitled “1xEV-DV**
24 **Evaluation Methodology”.**

- 25 • **WG2 REPORT:** The WG2 report (C00-20020805-102) was presented by the WG2
26 Chair, Orlett Pearson (Lucent Technologies), as FYI.
- 27 • Reviewed Work Item descriptions for IP-Based Location Service, Security
28 Framework for Data Services via HRPD, and Network Initiated Data Session
29 (NIDS). The WG has grave concerns about the lack of detail contained in recent
30 Work Item worksheets, because it makes it virtually impossible for the WG to
31 determine whether there is any impact from a proposal on cdma2000 signaling.
32 At the same time, not responding to TSG-S – even though no meaningful
33 response is possible – increases the likelihood that the Work Item will be
34 approved. The WG discussed several possible remedies and would like to see
35 changes made to improve the Work Item proposal process.
- 36 **ACTION: The Chair agreed to add an item to the TSG-C agenda to draft a**
37 **liaison to TSG-S to identify improvements in the Work Item process.**
- 38 • Reviewed the Stage 1 document for Legacy QoS [S.P0035] and provided
39 comments to the RRAHG. The Stage 1 for End-to-End QoS [S.P0079] was also
40 remanded to the WG, but it was decided to hold this open for one meeting cycle.

- 1 • Reviewed a Lucent contribution suggesting that an ad hoc group be created to
2 progress work on a Broadcast Services Stage 2 document. Lucent stated that
3 experts from all TSGs should be invited to participate in this ad hoc. The intent is
4 to create a clear understanding of the operation of Broadcast/Multicast Service.
5 The WG could not reach consensus on this item, and discussion was closed.
- 6 • During the April, 2002 meeting, WG2 received correspondence from TSG-A
7 regarding CCPD (C00-20020415-006). In the correspondence, TSG-A assumes
8 that the base station can determine that an origination is from a CCPD Device by
9 verifying FCH_SUPPORTED and DCCH_SUPPORTED fields in the *Origination*
10 *Message* are both set to zero. TSG-A would like TSG-C to confirm that the
11 FCH_SUPPORTED and the DCCH_SUPPORTED fields could be set to zero
12 when neither channel is requested. Two liaisons were presented to WG2 with
13 opposing views. WG2 could not reach consensus regarding this item and is
14 therefore submitting these three contributions (see below) for plenary action.

15 Draft SDO Review text for C.P0024-0 v4.0 (C00-20020805-112), cdma2000 High Rate
16 Packet Data Air Interface Specification (Addendum 2), was presented.

17 **DECISION: C00-20020805-112 was approved without objection as SDO Review**
18 **text for C.P0024-0 v4.0 (i.e., next point release).**

19 Proposed return correspondence to TSG-A regarding the *MS Registered Message* (C00-
20 **20020805-118**) was presented (in response to C00-20020805-024).

21 **DECISION: C00-20020805-118 was approved without objection for transmission to**
22 **TSG-A.**

- 23 • **WG1 REPORT:** The WG1 report (C00-20020805-101) was presented by the WG1
24 Chair, Phil Brown (Ericsson), as FYI.
- 25 • Approved two project requests: one for Multimedia Messaging Service (MMS)
26 and one for Multimedia Streaming Service (MSS).
- 27 • Agreed to hold development of a specification for MMS at the WG level, in order
28 to coordinate cross-discipline issues with respect to the variety of associated
29 codecs and file formats. Because there was not unanimous support for this
30 proposal, the issue will be revisited as development work proceeds.
- 31 • Noted the resignation of Soumitra Das (Motorola) as SWG1.6 Chair, and that an
32 appointment for that position should be announced at the September meeting.

33 A reply from SWG1.1 regarding electro-acoustical requirements for CDMA BS and MS
34 (C00-20020805-114) was presented (in response to C00-20020805-018).

35 **ACTION: C00-20020805-114 was remanded to WG4 for review and action as**
36 **appropriate (C00-20020805-018 was also remanded to WG4 FYI).**

37 A contribution from SWG1.5 regarding TSG-C candidate work items for 2002/2003
38 work planning (C00-20020805-107) was presented.

39 **ACTION: C00-20020805-107 was held open, and the membership was asked to**
40 **review the candidate list and to respond by the September meeting.**

1 Draft publication text for C.S0042-0 v1.0 (C00-20020805-108), Circuit-Switched Video
2 Conferencing Services, was presented.

3 **DECISION: C00-20020805-108 was approved without objection for publication as**
4 **C.S0042-0 v1.0.**

5 Proposed return correspondence to TSG-P regarding the 3GPP2-IETF Draft Dependency
6 List (C00-20020805-109) was presented (in response to C00-20020805-025).

7 **DECISION: C00-20020805-109 was approved without objection for transmission to**
8 **TSG-P.**

9 Proposed return correspondence to ISO/IEC/JTC/SC29/WG11 regarding their liaison on
10 MPEG-4 Visual Simple Scalable Profile (C00-20020805-110) was presented (in response
11 to C00-20020610-020).

12 **DECISION: C00-20020805-110 was approved without objection for transmission to**
13 **ISO/IEC/JTC/SC29/WG11.**

14 Proposed correspondence to TSG-S regarding TSG-C Requirements Review Activity in
15 August, 2002 (C00-20020805-115) was presented. A minor editorial error was noted (a
16 reference to TSG-S should have been to TSG-C), and a corrected version was posted.

17 **DECISION: C00-20020805-115R1 was approved without objection for**
18 **transmission to TSG-S.**

19 Proposed return correspondence to TSG-S regarding TSG-C Work Items on the 3GPP2
20 Work Plan (C00-20020805-116) was presented (in response to C00-20020805-023).
21 Several minor editorial errors were noted, and a corrected version was posted.

22 **DECISION: C00-20020805-116R1 was approved without objection for**
23 **transmission to TSG-S.**

24 Draft baseline text for C.P1001-D v0.4 (C00-20020805-117), Administration of
25 Parameter Value Assignments for cdma2000 Spread Spectrum Standards, was presented.

26 **DECISION: C00-20020805-117 was approved without objection as baseline text for**
27 **C.P1001-D and was remanded back to WG1 for V&V.**

28 An updated version of the TSG-C 2002 Work Plan (C00-20020805-113), Version 4, was
29 presented. A revised version containing the (five) approved project requests from the
30 closing Plenary was later posted on the meeting server.

31 **ACTION: C00-20020805-113R1 was held open because of discrepancies noted on**
32 **the “Document Catalog” tab (Rev. C of the air interface specifications was not**
33 **present). A revised version will be presented at the September meeting.**

1 **7. CORRESPONDENCE (continued):**

- 2 • A proposed liaison to TSG-P, developed by Lucent, regarding Joint Stage 2
3 Development Work for Broadcast/Multicast (C00-20020805-106) was presented.
4 During the ensuing discussion it was noted that the liaison statement requests
5 TSG-P to expand the scope of its current ad hoc BC/MC effort to include
6 participation by members of other TSGs, resulting in a systemwide Stage 2
7 document that could be used by all TSGs. Concern was expressed by several
8 members that TSG boundaries need to be observed and that such a liaison could
9 be seen as an encroachment on TSG-P and its areas of responsibility.
10 **ACTION: C00-20020805-106 was held open, following objections by**
11 **Samsung and LGE when the Chair asked for approval of the document.**
- 12 • Proposed return correspondence to TSG-S regarding “Trial of New Process for
13 Final Review of Stage 1” dated 11 July 2002 (C00-20020805-120) was presented
14 (in response to C00-20020805-022). The correspondence expresses several
15 concerns TSG-C has with the proposed process for expediting Stage 1 work,
16 which many members felt could result in inadequate time for review.
17 **DECISION: C00-20020805-120 was approved without objection for**
18 **transmission to TSG-S.**

19 **11. NEW BUSINESS (continued):**

- 20 • A contribution from WG2 (see above) consisting of correspondence originally
21 received from TSG-A at the April, 2002 meeting as well as attached contributions
22 from Lucent and from Motorola (C00-20020805-119) was presented. The
23 question posed by the correspondence is whether a mobile station is permitted to
24 identify itself as supporting *neither* the FCH nor the DCCH (in other words, both
25 the FCH_SUPPORTED and DCCH_SUPPORTED fields in the *Origination*
26 *Message* are set to zero) – a combination also referred to as “Common Channel
27 Only Device” (CCOD) capability. Lucent maintains that CCOD is expressly
28 prohibited by language in both C.S0002 (Physical Layer) and C.S0003 (MAC),
29 while Motorola maintains that CCOD has been an approved work item for several
30 years and that any restrictions on the capability in either C.S0002 or C.S0003 are
31 erroneous and should be removed. The Chair asked the WG3 Chair whether the
32 description of the text in C.S0003 was correct, and the WG3 Chair responded that
33 Lucent summarized the text correctly; the WG3 Chair also pointed out that a
34 potential problem with CCOD devices is that the current Minimum Performance
35 Standards perform many tests on either the FCH or DCCH (meaning CCOD
36 devices could not be tested using the existing MPS documents).
37 Lucent then made a motion that a proposed liaison response to TSG-A prepared
38 by Lucent, QUALCOMM and Samsung (C00-20020805-111) be approved (the
39 liaison articulated the Lucent position that CCOD capability is not supported).
40 Nortel Networks and Motorola objected, and Nortel requested a quorum call. The
41 result of the quorum call was that 19 of 39 companies (49% participation) were
42 present, thus there was no quorum and no action could be taken.
43 **ACTION: C00-20020805-119 was considered to be FYI for the TSG.**
44 **ACTION: C00-20020805-111 was held open.**

- 1 **12. ASSIGNMENTS:** The following contributions are being carried forward for action at
 2 the next meeting (or a future meeting):

CONTRIBUTION	TITLE
C00-20020708-002	TSG-C Meeting Summary June, 2002 – Shenzhen, China
C00-20020708-020	3GPP2 E-Library Status Report [Secretariat]

- 3 **13. FUTURE MEETING SCHEDULE:**

DATE	LOCATION
9-13 September 2002	Cheju, Korea – Shilla Cheju Hotel
21-25 October 2002	Quebec City, Canada – Le Chateau Frontenac
9-13 December 2002	Maui, HI, USA – Outrigger Hotel

- 4 **14. OPEN DISCUSSION AND OTHER BUSINESS:** None.
- 5 **15. ADJOURNMENT:** The Plenary was adjourned on 9 August 2002 at 12:00 PM local
 6 time.

- 1 A listing of the contributions that were distributed is itemized below:

NUMBER	SUBJECT	SOURCE
OPENING PLENARY - 3GPP2-C00-20020805-		
000	DOCUMENT REGISTER	CHAIR
001	AGENDA	CHAIR
002	TSG-C Meeting summary - July 2002 – San Diego, CA	Acting SECRETARY
003	Correspondence dated 11 July 2002 from TSG-S on TSGs Initial Review of End to End QoS (S.P0079)	TSG-S
004	Correspondence dated 11 July 2002 to all TSGs regarding Packet Prepaid Services Stage-1	TSG-S
005	Correspondence dated 11 July 2002 to all TSGs regarding Review of Packet Prepaid Service Work Item	TSG-S
006	Correspondence dated 11 July 2002 to all TSGs regarding NAM Updates	TSG-S
007	Correspondence dated 11 July 2002 to all TSGs regarding Gap Analysis Stage 1	TSG-S
008	Correspondence dated 10 July 2002 to TSG-A and TSG-N regarding IOTA Stage 1 (S.P0073)	TSG-S
009	Correspondence dated 10 July 2002 to TSG-A on Multiple Service Instances	TSG-S
010	Work Items for Review	TSG-S
011	1XEV-DV - Improved Reverse Link Bandwidth (Data Rate)	TELUS MOBILITY
012	Correspondence dated 10 July 2002 to all TSGs on Enhanced Process Guidelines	TSG-S
013	Correspondence dated 12 July 2002 from TSG-N to TSG-A regarding QoS Support in the IOS	TSG-N
014	Correspondence dated 8 July 2002 to TSG-N on Candidate Work Items	TSG-S
015	Correspondence dated 11 July 2002 to TSG-N Subscribed Rate Stage 1	TSG-S
016	Work Items	Lucent Technologies
017	Additions to Voice Mail Notification in C.S0015	Research In Motion
018	Standard specification for Electro-acoustical Requirements of CDMA base-stations, and mobile stations	Qualcomm
019	Request for Work Item for DO Broadcast	Qualcomm
020	Priority Work Items for Release D of IS-2000	AllTel, Sprint, Bell Mobility
021	TSGs Review of Common Security Algorithms	TSG-S
022	Trial of New Process for Final Review	TSG-S
023	TSG-C August Workplan	3GPP2 Secretariat
024	Correspondence dated 15 May 2002 on MS Registered Message	TSG-A
025	Correspondence dated 18 June 2002 to all TSGs – 3GPP2 – IETF Draft Dependencies	TSG-P

NUMBER	SUBJECT	SOURCE
026	Correspondence dated 12 July 2002 to TSG-A regarding IXEV-DV in IOSv5.0	TSG-P
027	Correspondence dated 11 July 2002 to TSG-S regarding Subscriber Rate for Packet Data Service – Stage 1	TSG-P
028	Correspondence dated 12 July 2002 to TSG-S regarding TSG-P BCMCS System Requirements and Working Assumptions	TSG-P
029	TAS addendum	WG 4
030	TDSO addendum	WG 4
031	Candidate Work items for Rev. D	SWG 1.5
WG1 - APPLICATION SERVICES - 3GPP2-C10-20020805 -		
001	Draft Agenda – meeting #39	Chair
002	Contribution Status	Chair
003		-VOID-
004	Proposed Stage 2 & 3 text for IOTA	CDG
005	C.P1001-D updates/status	C.P1001-D Editor
006	Report of 1 August 2002 SWG1.2 teleconference	SWG1.2 Chair
007	(C00-20020805-003) Corr re: Initial review of End-to-End QoS	TSG-S
008	(C00-20020805-004) Corr re: Initial review of Packet Prepaid Service	TSG-S
009	(C00-20020805-005) Corr re: Review of Packet Prepaid Service Work Item	TSG-S
010	(C00-20020805-006) Corr re: NAM updates	TSG-S
011	(C00-20020805-007) Corr re: 3GPP2 MMD and 3GPP IMS Release 5 Gap Analysis	TSG-S
012	(C00-20020805-009) Corr to TSG-A re: Multiple Service Instances	TSG-S
013	(C00-20020805-010) Corr re: Work Items for review	TSG-S
014	(C00-20020805-012) Corr re: Enhanced Process Guidelines	TSG-S
015	(C00-20020805-021) Corr re: TSG Review of S.P0078 Common Security Algorithms	TSG-S
016	(C00-20020805-022) Corr re: Trial of new process for Stage 1 Final Review	TSG-S
017	(C00-20020805-023) Corr re: 3GPP2 Work Plan for TSG-C	3GPP2 Secretariat
018	(C00-20020805-025) Corr re: 3GPP2-IETF Draft Dependencies List	TSG-P
019	(C00-20020805-027) Corr to TSG-S re: Subscribed Rate for Packet Data Service Stage 1 comments	TSG-P
020	(C00-20020805-028) Corr to TSG-S re: TSG-P BC/MCS System Requirements	TSG-P
021	(C00-20020805-031) Candidate Work Items for Rev. D	SWG1.5 Chair
022	(C00-20020805-011) 1xEV-DV Improved Reverse Link Bandwidth (Data Rate)	Telus Mobility
023	(C00-20020805-016) Proposed Rev. D Work Items	Lucent

NUMBER	SUBJECT	SOURCE
024	(C00-20020805-017) Additions to Voice Mail Notification in C.S0015	Research In Motion
025	(C00-20020805-018) Request for standard specification for electro-acoustical requirements of CDMA BS and MS	QUALCOMM
026	(C00-20020805-019) Request for Broadcast Over HRPD Work Item	QUALCOMM
027	(C00-20020805-020) TSG-C Priority Work Items for Rev. D	Alltel/Bell Mobility/Sprint PCS
028	TIA PN-3-0072 ballot comments (SDO Review of C.P9016)	TR-45.5
101	SWG1.1 report	SWG1.1 Chair
102R1	SWG1.2 report	SWG1.2 Chair
103R1	SWG1.3 report	SWG1.3 Chair
104	SWG1.4 report	SWG1.4 Chair
105		-VOID-
106	SWG1.6 report	SWG1.6 Chair
107R1	RRAHG report	RRAHG Chair
108	C.P9016/C.S0042-0 SDO Review comment resolution text	SWG1.2
109	Proposed reply to TSG-P re: 3GPP2-IETF dependencies list	SWG1.2
110	Proposed reply to ISO/IEC re: MPEG-4 Visual SSP	SWG1.2
111	TSG-C 2002 Work Plan V4 (draft)	SWG1.5
112	Response re: electro-acoustical specification request	SWG1.1
113	Request to include Band Class 11 and 12 in C.R1001	Lucent
114	Request to include Band Class 13 in C.R1001	Lucent
115	Response re: Stage 1 final review process (C00-20020805-022)	WG2
116	Comment on End-to-End QoS	SWG1.3
117R1	Corr to TSG-S re: Stage 1 review comments	RRAHG
118	Corr to WG2 and WG3 re: Enhanced Call Recovery Stage 1	RRAHG
119	Reply to TSG-S re: Common Security Algorithms	SWG1.3
SWG1.1 - VOICE SERVICES - 3GPP2-C11-20020805-		
001	Agenda	Chair
002	Report of the July 2002 TSG-C1.1 Voice Services Meeting	Chair
003	ANSI-127 Comments	Motorla
004	Proposal for Wideband Coder Requirements for Rate 1 to Rate ½ Translation	Lucent
005		-VOID-
006	Blank All-Zeros Frames for CDMA Vocoders in Rate 1, Rate ½, Rate ¼ and Rate 1/8	Lucent
007	Lucent ANSI-733 13K Vocoder Comments	Lucent
008	Quality and ADR Targets for CDMA2000 Wideband Speech Coder under Noisy Conditions	Nokia

NUMBER	SUBJECT	SOURCE
009	Standard specification for Electro-acoustical Requirements of CDMA base stations and mobile stations	Remand
010	System Capacity Impacts of CDMA2000 Wideband Vocoder Modes	Qualcomm
011, 011R1	Dunnett's Analysis Spreadsheet for the SMV Minimum Performance Specification	Dynastat
012	iBiquity PAC – a proposal for a Wideband Audio Codec for 3G	Ibiquity
013	Wideband Speech Codec Stage One Requirements	Nokia
014	Qualcomm Review Comments on ANSI-733 Document	Qualcomm
015	Resolution of the Issue of the Proposed Mandatory Interoperability with 3GPP/UMTS Requirement for 3GPP2 WB codec	Qualcomm
016, 016R1 016R2	Reply to C00-20020805-018 (C11-20020805-009): Standard Specification for Electro-acoustical Requirements of CDMA Base Stations, and Mobile Stations	Chair
017, 017R1	Updated TTY Minimum Performance Specification	Lucent
018AH	CDMA2000 Wideband Coder Dim & Burst Requirements	Lucent
019	EVRC Text changes for agreed-upon changes	Lucent
SWG1.2 – VIDEO SERVICES - 3GPP2-C12-20020805 -		
001	Draft Agenda	Chairs
002	Meeting Report of the Shenzhen (June 2002) meeting	Chairs
002R1	Meeting Report of the Shenzhen (June 2002) meeting	Chairs
003	Meeting Report of the Previous Teleconference (August 1, 2002)	Chairs
004	Correspondence from ISO/IEC MPEG Video Group	ISO/IEC
005	Stage 1 Documents from TSG-S on Multimedia File Format	TSG-S
006	Correspondence from ITU	ITU
007	Multimedia Codec for Multimedia Messaging Service	Ericsson
008	Correspondence from TSG-P	TSG-P
009	Proposed Baseline Text for Multimedia Streaming Services	Nokia
010	Error Resilience for MPEG-4 Simple Scalable Profile	Motorola
011	Updated Proposed Baseline Text for Multimedia Streaming Services	Nokia
012	File Format for Multimedia Services	KDDI
013	C.S0042 Ballot Resolution Text	Editors
013R1	C.S0042 Ballot Resolution Text	Editors
013AR2	C.S0042 Ballot Resolution Text	Editors
014	C.P9016 SDO Ballot Comments Status	Qualcomm
015	3GPP2 Reply to ISO/IEC MPEG Video Group	Chairs
016	TSG-C Reply to TSG-P	Chairs

NUMBER	SUBJECT	SOURCE
017	Multimedia Codec for Multimedia Streaming	Qualcomm
SWG1.3 – DATA SERVICES - 3GPP2-C13-20020805-		
001	Agenda	Chair, C1.3
002	July 8-12, 2002 Meeting Summary	Chair, C1.3
003	Contribution Status	Chair, C1.3
004		- VOID-
005	=C10-20020805-007=C00-20020805-003 End-to-end QoS Stage 1	TSG-S
006	=C10-20020805-015=C00-20020805-021 Common Security Algorithms Specification	TSG-S
007	=C10-20020805-018=C00-20020805-025 IETF Dependencies	TSG-S
008	C.P9021 LLA ROHC SO61 V07	Ericsson
009	QoS Parameters	Nortel Networks
010r1	RLP_support_for_0xf00	Motorola
011r2	RemovalFillFrames	Lucent
012	Proposed_Jitter_Text_For_QoS	Sprint PCS
013	Removal of Changes in IS-707-B for Common Channel Only Device Support	Lucent
SWG1.4 - ANCILLARY SERVICES AND MS INTERFACES - 3GPP2-C14-20020805-		
001	Agenda	Chair
002	(Draft) Meeting Summary: July 2002 San Diego	Chair
003	Approved Meeting Summary: June 2002 Shenzhen	Chair
004	CDG IOTA stage 2&3	CDG
005	=C00-20020805-021 Correspondence from TSG-S re: TSG Review of Common Security Algorithms	Chair
006	ME-RUIM interface specification	Motorola
007	Comments on CCAT	SLBSema
008	Content and Application Protocol for supporting MMS	SLBSema
009	Advanced ballot comments on TIA/EIA -683-C	Lucent
010	Advanced ballot comments on TIA/EIA/IS-820-A	Gemplus
SWG1.5 - WORKPLAN - 3GPP2-C15-20020805-		
001	Proposed Agenda	Chair
002	(C10-20020805-009/C00-20020805-005) Corr re: Review of Packet Prepaid Service Work Item	TSG-S
003	(C10-20020805-013/C00-20020805-010) Corr re: Work Items for review	TSG-S
004	(C10-20020805-014/C00-20020805-012) Corr re: Enhanced Process Guidelines	TSG-S

NUMBER	SUBJECT	SOURCE
005	(C10-20020805-017/C00-20020805-023) Corr re: 3GPP2 Work Plan for TSG-C	3GPP2 Secretariat
006	(C10-20020805-021/C00-20020805-031) Candidate Work Items for Rev. D	Chair
007	(C10-20020805-022/C00-20020805-011) 1xEV-DV Improved Reverse Link Bandwidth (Data Rate)	Telus Mobility
008	(C10-20020805-023/C00-20020805-016) Proposed Rev. D Work Items	Lucent
009	(C10-20020805-026/C00-20020805-019) Request for Broadcast Over HRPD Work Item	QUALCOMM
010	(C10-20020805-027/C00-20020805-020) TSG-C Priority Work Items for Rev. D	Alltel/Bell Mobility/Sprint PCS
011	TSG-C Work Plan V3+	Chair
SWG1.6 - LOCATION SERVICES - 3GPP2-C16-20020805-		
001	Meeting agenda	Chair
002	SWG 1.6 San Diego Meeting Summary	Chair
003	Message definition for backward compatibility	SiRF
004	Reply to Steering Committee Chair regarding liaison relationship with LIF	SiRF
005	IS-801-A Plan	QUALCOMM
WG2 - SIGNALING AND PROTOCOL - 3GPP2-C20-20020805-		
SWG2.1 - MAC - 3GPP2-C21-20020805-		
001	Chair_Agenda_SWG_2.1	Chair
006	Remand-C20_C20-20020805-018_Chair_-028_Corr_to_TSG-S_on_BCMCS_Requirements	Chair
007	Remand-C20_C20-20020805-019_Lucent_C20-20020805-019_LUC_cvr_sht_BC-MC_-_Stage_2_-_v0.0.3_(020805)	Lucent
007A	Remand-C20_C20-20020805-019A_Lucent_C20-20020805-019A_LUC_BC-MC_-_Stage_2_-_v0.0.3_(020805)	Lucent
SWG2.2 - LAC - 3GPP2-C22-20020805-		
SWG2.3 - L3 SIGNALING - 3GPP2-C23-20020805-		
SWG2.4 - ANALOG - 3GPP2-C24-20020805-		
SWG2.5 - HIGH RATE PACKET DATA - 3GPP2-C25-20020805-		
001	Agenda_for_2.5	Chair
006	Addendum2_DDRs_v2	Qualcomm
006R1	Addendum2_DDRs_v3	Qualcomm
007	DOBroadcastText	Qualcomm

NUMBER	SUBJECT	SOURCE
008	C.S2004version4_Ballot_v2	Chair
008A	C.S2004version4_Ballot_v2	Chair
WG3 - PHYSICAL LAYER - 3GPP2-C30-20020805-		
001	Agenda	Chair, TSG-C3
001R1	Agenda	Chair, TSG-C3
002	3GPP2 TSG-C Working Group 3 Meeting Summary, San Diego, CA USA	Chair, TSG-C3
002R1	3GPP2 TSG-C Working Group 3 Meeting Summary, San Diego, CA USA	Chair, TSG-C3
002R2	3GPP2 TSG-C Working Group 3 Meeting Summary, San Diego, CA USA	Chair, TSG-C3
002R3	3GPP2 TSG-C Working Group 3 Meeting Summary, San Diego, CA USA	Chair, TSG-C3
003	Contribution List, V102	Chair, TSG-C3
003R1	Contribution List, V103	Chair, TSG-C3
004	Flat/Toroidal Ad-Hoc Group Report	Anthony Soong, Ericsson, Chair
005	Correspondence from TSG-S: Initial Review of End-to-End QoS	TSG-S
006	Correspondence from TSG-S: Initial Review of Packet Prepaid Service	TSG-S
007	Correspondence from TSG-S: Review of Packet Pre-paid Service Work Item	TSG-S
007A	Correspondence from TSG-S: Review of Packet Pre-paid Service Work Item	TSG-S
008	Correspondence from TSG-S: Approved NAM Updates	TSG-S
009	Correspondence from TSG-S: Review of work items: NIDS, IP-based Location Services, and Security Framework for Data Services via HRPD	TSG-S
010	Correspondence from TSG-S: Review of Enhanced Process Guideline document	TSG-S
011	Correspondence from TSG-S: TSG Review of Common Security Algorithms	TSG-S
012	Correspondence from TSG-S: Trial of new process for Final Review of Stage 1 requirements documents	TSG-S
013	Correspondence from TSG-P: Subscribed Rate for Packet Data service - Stage 1	TSG-P
014	Correspondence from TSG-P: TSG-P BCMCS System Requirements and Working Assumptions	TSG-P
015	1XEVDV - Improved Reverse Link Bandwidth (Data Rate)	Said Mokbel, Telus
016	Spatial Channel Modeling (SCM) reports and agenda	Achilles Kogiatis, 3GPP - 3GPP2 SCM AHG Chair
017	Proposed TSG-C Working Group 3 1xEV-DV RL Evaluation Process	Bjorn Hjelm, Alltel and Chris Seagren, Sprint
018	Enhancements to the 1xEVDV Reverse Link Evaluation Methodology R1	Hsien Woo et al, Ericsson

NUMBER	SUBJECT	SOURCE
019	A suggested reverse link development methodology for cdma2000 Rev. D	Anthony C.K. Soong et al, Ericsson
020	Modifications of the Forward Link Evaluation Methodology	Stein Lundby et al, Qualcomm
021	Criteria for Simulation Duration and System Stability	Jelena Damnjanovic et al, Qualcomm
022	Approved Enhancements to the Reverse Link Evaluation Methodology	Tao Chen et al, Qualcomm
022R1	Approved Enhancements to the Reverse Link Evaluation Methodology	Tao Chen et al, Qualcomm
022R2	Approved Enhancements to the Reverse Link Evaluation Methodology	Tao Chen et al, Qualcomm
023	Review of Stage 1 documents	Chair, TSG-C3
023R1	Review of Stage 1 documents	Chair, TSG-C3
024	IS-2000 Release 0 Simulation Configuration Specification	Tom Derryberry, Nokia
024R1	IS-2000 Release 0 Simulation Configuration Specification	Tom Derryberry, Nokia
025	IS-2000 Release 0 Simulation Configuration Specification	Avinash Jain, Qualcomm
026	ITU Ad-Hoc Report	Ron Ferguson, chair ITU Ad hoc
026A	letter to Colin Langtry, Counsellor, ITU Radiocommunication Bureau, subject M.1457 package for CDMA-MC in response to 8F/134-er1v2 (Declaration of self consistency), dated Sept 19, 2001	Jean Alphonse, Chair TR45.5
026B	letter to ITU IMT-2000 Project Manager, subject Conveyance of Disclosure for Global Core Specification (GCS) Related Materials, dated May 30, 2002	Dan Bart, Senior Vice President, Standards and Special Projects, TIA
027	RLINK Guidelines	Chair, TSG-C3
027R1	RLINK Guidelines	Chair, TSG-C3
WG4 - PERFORMANCE - 3GPP2-C40-20020805-		
001	August 1 st Call Summary	Chair
WG4.1 - PHYSICAL PERFORMANCE - 3GPP2-C41-20020805-		
SWG4.2 - SIGNALING CONFORMANCE - 3GPP2-C42-20020805-		
000R1	Contribution Log	Chair
001	Agenda	Chair
002	Meeting Summary	Chair
003	Modified_C42-20020513-008r1_Racal_PACA_changes	Racal
004	QC_CPN_test_support(revised)	QUALCOMM
005R1	Test_case_removal_list	Chair
SWG4.3 - LOCATION TEST - 3GPP2-C43-20020805-		
CLOSING PLENARY - 3GPP2-C00-20020805-		

NUMBER	SUBJECT	SOURCE
101	WG1 report	WG1
102	WG2 report	WG2
103	WG3 report	WG3
104	WG4 report	WG4
105		-VOID-
106	Proposed corr to TSG-P re: Broadcast/Multicast Stage 2	Lucent
107	Candidate TSG-C Work Items for 2002/2003	WG1
108	C.P9016/C.S0042-0 SDO Review comment resolution text	WG1
109	Proposed reply to TSG-P re: 3GPP2-IETF dependencies list	WG1
110	Proposed reply to ISO/IEC re: MPEG-4 Visual SSP	WG1
111	Proposed corr to TSG-A re: Common Channel Only Device support	Lucent / QUALCOMM / Samsung
112	Proposed SDO Review text for C.P0024-0 v4.0	WG2
113	TSG-C 2002 Work Plan V4	WG1
114	SWG1.1 response to QUALCOMM request for electro-acoustical requirements specification	WG1
115	Proposed reply to TSG-S re: Stage 1 review activity	WG1
116	Proposed reply to TSG-S re: 3GPP2 Work Plan review	WG1
117	Proposed baseline text for C.P1001-D	WG1
118	Corr to TSG-A re: MS Registration	WG2
119	TSG-A corr to TSG-C re: RAN ballot question	WG2
120	Proposed reply to TSG-S re: Trial of new process for final Stage 1 review (C00-20020805-022)	WG1/WG2

1

3GPP2 QUORUM ROLL CALL
TSG-C (CDMA2000)

August 9, 2002

COMPANY	Attendance 08/05/2002	Attendance 08/09/2002	Consecutive Mtgs Missed	Quorum Status at Mtg Start
ADVANTEST	1		3	0
AGILENT TECHNOLOGIES	0		3	0
AIRVANA	0		2	0
ALLTEL	1		0	1
BELL MOBILITY	0		0	1
COMMWORKS	0	1	0	1
COMVERSE	0		3	0
DENSO	0		2	1
DOCOMO US LABORATORIES	1		1	1
ERICSSON	1		0	1
ETRI	0		0	1
FRANCE TELECOM	1		0	1
FUJITSU	1		0	1
GEMPLUS	1		0	1
HITACHI	0		0	1
HYUNDAI	0		2	1
KDDI	1		0	1
KT FREETEL	0		0	1
KYOCERA	1		0	1
LG ELECTRONICS	1		0	1
LG TELECOM	0		0	1
LINKAIR	1		0	1
LUCENT	1		0	1
MATSUSHITA/PANASONIC	0		0	1
MOTOROLA	1		0	1
NEC	0		0	1
NEXTEL	1		0	1
NOKIA	1		0	1
NORTEL NETWORKS	1		0	1
PHILIPS	0		0	1
QUALCOMM	1		0	1
RESEARCH IN MOTION	1		0	1
ROHDE & SCHWARZ	1		0	1

SAMSUNG	1		0	1
SCHLUMBERGERSEMA	1		0	1
SEROME TECHNOLOGY	0		3	0
SIERRA WIRELESS	0		3	0
SIRF TECHNOLOGY	0		0	1
SK TELECOM	0		0	1
SORRENTO TELECOM	0		0	0
SPIRENT COMMUNICATIONS	0	1	3	0
SPRINT PCS	1		0	1
TANTIVY COMMUNICATIONS	0		1	1
TEXAS INSTRUMENTS	1		0	1
TOSHIBA	1		0	1
VERIZON WIRELESS	0	1	2	1
VIA TELECOM	1		0	1
ZTE	0	1	1	0
TOTALS	24	2		39
QUORUM CALCULATION	62%	5%		
ADDITIONS				
IBIQUITY	1			
OBSERVERS AND GUESTS				
MAXIM	1			

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3GPP2 QUORUM CALL #2

TSG-C (CDMA2000)

August 12, 2002

COMPANY	Attendance 08/05/2002	Attendance 08/09/2002	Consecutive Mtgs Missed	Quorum Status at Mtg Start
ADVANTEST	0		3	0
AGILENT TECHNOLOGIES	0		3	0
AIRVANA	0		2	0
ALLTEL	0		0	1
BELL MOBILITY	0		0	1
COMMWORKS	0		0	1
COMVERSE	0		3	0
DENSO	0		2	1
DOCOMO US LABORATORIES	1		1	1
ERICSSON	1		0	1
ETRI	0		0	1
FRANCE TELECOM	1		0	1
FUJITSU	1		0	1
GEMPLUS	0		0	1
HITACHI	0		0	1
HYUNDAI	0		2	1
KDDI	1		0	1
KT FREETEL	0		0	1
KYOCERA	1		0	1
LG ELECTRONICS	1		0	1
LG TELECOM	0		0	1
LINKAIR	0		0	1
LUCENT	1		0	1
MATSUSHITA/PANASONIC	0		0	1
MOTOROLA	1		0	1
NEC	0		0	1
NEXTEL	1		0	1
NOKIA	1		0	1
NORTEL NETWORKS	1		0	1
PHILIPS	0		0	1
QUALCOMM	1		0	1
RESEARCH IN MOTION	1		0	1
ROHDE & SCHWARZ	1		0	1

SAMSUNG	1		0	1
SCHLUMBERGERSEMA	0		0	1
SEROME TECHNOLOGY	0		3	0
SIERRA WIRELESS	0		3	0
SIRF TECHNOLOGY	0		0	1
SK TELECOM	0		0	1
SORRENTO TELECOM	0		0	0
SPIRENT COMMUNICATIONS	1		3	0
SPRINT PCS	1		0	1
TANTIVY COMMUNICATIONS	0		1	1
TEXAS INSTRUMENTS	0		0	1
TOSHIBA	1		0	1
VERIZON WIRELESS	1		2	1
VIA TELECOM	0		0	1
ZTE	0		1	0
TOTALS	19	0		39
QUORUM CALCULATION	49%	0%		
ADDITIONS				
OBSERVERS AND GUESTS				