1 **Title:**

2 **APPROVED SUMMARY OF 3GPP2 TSG-C MEETINGS**

3 for 4-8 February 2002 in Seattle, WA

4 **Source:**

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14 **Abstract:**

15 This document is a summary of the 3GPP2 TSG-C meetings that were held during the period
16 4-8 February 2002 in Seattle, WA.

17 **Recommendation:**

18 Review and adopt.

19

20 **Notice:**

1 During the period of 4-8 February 2002, 3GPP2 TSG-C meetings were held at the Four Seasons
2 Hotel in Seattle, WA. This document is intended to summarize those proceedings.

3

4 **OPENING PLENARY**

5 1.   CALL TO ORDER AND OPENING REMARKS: The meeting was called to order at
6   9:10 AM local time on 4 February 2002 by TSG-C Chair, Jean Alphonse (Lucent).

7   The Chair stated that the objectives for this week include publishing cdma2000 Release A for
8   publication and to release cdma2000 Release B for SDO review and comment, both without
9   the Sync Channel fix per the 24 January 2002 resolution of the 3GPP2 SC.

10 2.   ATTENDANCE REGISTRATION AND ROLL CALL: A roll call of companies indicated
11   that 35 companies included on the list of 45 active members were present and thus quorum was
12   established (78% participation).

13   In addition, the following two (2) proxies were noted for this meeting:

COMPANY	PROXY ASSIGNEE
LG TELECOM	LGE
SK TELECOM	SAMSUNG

14

15 3.   INTRODUCTION AND NUMBERING OF CONTRIBUTIONS: Contributions were
16   loaded onto the 3GPP2 network server and listed in the document register (C00-20020204-
17   000).

18 4.   AGENDA APPROVAL: The proposed agenda (C00-20020204-001) was presented.
19   **DECISION: This agenda was approved without objection as submitted.**

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

22 6.   APPROVAL OF PREVIOUS MEETING SUMMARY: The meeting summary of the January
23   2002 meeting in Vancouver, BC (C00-20020204-002) was presented. **DECISION: This**
24   **meeting summary was approved without objection as modified by the discussion**
25   **(C00-20020204-002R1).**

26 7.   CORRESPONDENCE:

27   •   The 3GPP2 SC Sync Channel AdHoc proposal (C00-20020204-005) was presented.
28   This proposal documented the decision of the SC to establish an SC AdHoc to resolve
29   the issues related to the Sync Channel. This document was received by e-mail from the
30   3GPP2 SC Chair with a request that it be submitted to this Plenary as FYI. There was
31   substantial concern regarding the format of this contribution, or lack thereof, since no
32   cover or background information was provided. Review of this document was
33   temporarily suspended until additional information on the source of this document could
34   be secured.

1　　　　　　　After making contact with the 3GPP2 SC Chair, a revised contribution was submitted
2　　　　　　　with an appropriate cover sheet (C00-20020204-005R1). The SC Chair noted that
3　　　　　　　the SC Sync Channel AdHoc was intended to investigate all possible options including
4　　　　　　　those that do not require specification changes. There was some concern that any
5　　　　　　　issues other than 3GPP2 specification changes would be beyond the scope of the SC
6　　　　　　　AdHoc. This contribution was noted as FYI for the TSG.

7　　　•　　　The Chair directed WG2 and WG3 to prepare cdma2000 Release A documents for
8　　　　　　　approval for publication by the closing Plenary including resolution of the item known to
9　　　　　　　WG2 as "ballot comment 10". An interim TSG-C Plenary was directed for 1:30 PM
10　　　　　　　on Wednesday 6 February 2002 to assist WG2 in resolving concerns related to
11　　　　　　　Motorola ballot comment 10 if necessary. However, if WG2 does not need the
12　　　　　　　assistance of the Plenary, this interim TSG Plenary meeting will not be held. NOTE:
13　　　　　　　The need for the interim Plenary was subsequently dispelled by the withdrawal of the
14　　　　　　　ballot comment.

15　　　•　　　The Work Item Status List update (C00-20020204-003) was presented from the
16　　　　　　　3GPP2 PMT Coordinator. **ACTION: This contribution was remanded to WG1,**
17　　　　　　　**WG2, and WG3 as FYI.**

18　　　•　　　Correspondence dated 23 January 2002 to all TSGs from TSG-S regarding review and
19　　　　　　　update of Stage 2/3 dates for 3GPP2 Workplan (C00-20020204-004) was presented.
20　　　　　　　This correspondence requested updates to the attached report by the end of this
21　　　　　　　meeting as it relates to the TSG-C specific information. **ACTION: This contribution**
22　　　　　　　**was remanded to WG1 for action by the closing Plenary based on information**
23　　　　　　　**included in the TSG-C workplan. In addition, this entire process will also be**
24　　　　　　　**reviewed at the Chair's meeting to address any additional concerns.**

25　　　•　　　Correspondence to TSG-C and TSG-N dated 10 January 2002 from TSG-P regarding
26　　　　　　　3GPP2 IETF activities (C00-20020204-006) was presented. In this correspondence,
27　　　　　　　TSG-P indicated that they were not willing to serve as the 3GPP2 IETF tracking point
28　　　　　　　as requested by both TSG-C and TSG-N. The Chair indicated that the 3GPP2 SC
29　　　　　　　had left this issue open at the SC level while the SC Chair seeks a volunteer for this
30　　　　　　　effort. This contribution was noted as FYI for the TSG but the Chair indicated that the
31　　　　　　　issue of tracking IETF issues would be discussed at the Chair's meeting.

32　　　•　　　Correspondence dated 29 January 2002 from TSG-P to TSG-A regarding IOS
33　　　　　　　scheduling impacts (C00-20020204-007) was presented. This contribution was noted
34　　　　　　　as FYI for the TSG.

35　　　•　　　Correspondence dated 11 January 2002 from TSG-A regarding VoIP GRE Framing
36　　　　　　　(C00-20020204-008) was presented. **ACTION: This contribution was remanded**
37　　　　　　　**to WG1 for review and action as appropriate by the closing Plenary.**

38　　　•　　　Correspondence dated 11 January 2002 from TSG-N to all TSGs regarding the lack of
39　　　　　　　Stage 1s (C00-20020204-009) was presented. This contribution was noted as FYI
40　　　　　　　for the TSG.

1   •   Correspondence dated 11 January 2002 from TSG-N to TSG-S regarding Evolution
2   Document v1.0.5 (C00-20020204-010) was presented. This contribution was noted
3   as FYI for the TSG.

4   •   Correspondence dated 11 January 2002 from TSG-N to TSG-S regarding NAM
5   updates (C00-20020204-011) was presented. This contribution was noted as FYI for
6   the TSG.

7   •   Correspondence dated 11 January 2002 from TSG-N to TSG-S regarding Priority
8   Service Worksheet (C00-20020204-012) was presented. This contribution was noted
9   as FYI for the TSG.

10   •   Correspondence from the Editor of the Q.1742.1 input to ITU-R (C00-20020204-
11   013) was presented. Since the correspondence noted that only non-air interface SDO
12   documents were referenced, this contribution was considered as FYI for TSG-C.

13   •   E-mail correspondence dated 29 January 2002 from the ITU IMT-2000 Program
14   Manager regarding ITU-R Recommendation M.1457 update (C00-20020204-014)
15   was presented. This contribution requested an update related to 3GPP2 SDO
16   transposition activities. **ACTION: Although a prior update had been previously**
17   **sent, this contribution was remanded to WG3 for review and action if**
18   **necessary.**

19   •   Correspondence to the IFAST Liaison that was generated by WG2 and transmitted on
20   15 January 2002 upon the approval of the Chair (C00-20020204-015) was presented
21   as FYI for the TSG.

22   •   Correspondence dated 18 January 2002 to the 3GPP2 Secretariat regarding TSG-C
23   requirements for technical writing support (C00-20020204-015) was presented as FYI
24   for the TSG. This correspondence was developed by the WG1 Chair after a discussion
25   with the TSG Chair's team. The TSG Chair noted that he had presented this
26   correspondence at a recent meeting of the TSG Chairs and had also delivered it the
27   3GPP2 Secretariat. The 3GPP2 Secretariat has indicated that each TSG has an initial
28   technical writer budget of $30K. The plan for technical writer services will be
29   discussed at the TSG-C Chair's team meeting.

30   •   Correspondence dated 23 January 2002 to TSG-N from TSG-S regarding TSG-N
31   comments on Legacy Call Features in All IP Networks Stage 1 (C00-20020204-017)
32   was presented. This contribution was considered FYI for the TSG.

33   •   Correspondence dated 21 January 2002 from TSG-S to all TSGs regarding system
34   requirements for IP-based Service Architecture (C00-20020204-018) was presented.
35   **ACTION: This contribution was remanded to WG1, WG2, and WG3 for**
36   **review and comment with WG1 acting as a focal point for the response to**
37   **TSG-S.**

38   •   Correspondence dated 23 January 2002 to TSG-A from TSG-S regarding TSG-A
39   comments on All IP system requirements (C00-20020204-019) was presented. This
40   contribution was considered FYI for the TSG.

1   •   Correspondence dated 23 January 2002 from TSG-S to all TSGs regarding Instant
2   Messaging Stage 1 (C00-20020204-020) was presented. **ACTION: This**
3   **contribution was remanded to WG1, WG2, and WG3 for review and comment**
4   **with WG1 acting as a focal point for the response to TSG-S.**

5   •   Correspondence dated 23 January 2002 from TSG-S to all TSGs regarding Presence
6   Service Stage 1 (C00-20020204-021) was presented. **ACTION: This contribution**
7   **was remanded to WG1, WG2, and WG3 for review and comment with WG1**
8   **acting as a focal point for the response to TSG-S.**

9   •   Correspondence dated 23 January 2002 from TSG-S to all TSGs regarding final
10   review of Subscribed Rate for Packet Data Service Stage 1 (C00-20020204-022) was
11   presented. **ACTION: This contribution was remanded to WG1, WG2, and WG3**
12   **for review and comment with WG1 acting as a focal point for the response to**
13   **TSG-S.**

14   •   Correspondence dated 23 January 2002 from TSG-S to all TSGs regarding
15   R-UIM/ME Interface Testing Stage 1 (C00-20020204-023) was presented.
16   **ACTION: This contribution was remanded to WG1, WG2, and WG3 for review**
17   **and comment with WG1 acting as a focal point for the response to TSG-S.**

18   •   Correspondence dated 23 January 2002 from TSG-S to all TSGs regarding Broadcast
19   Multicast Phasing (C00-20020204-024) was presented. **ACTION: This**
20   **contribution was remanded to WG1, WG2, and WG3 as FYI.**

21   •   Correspondence dated 23 January 2002 from TSG-S to all TSGs regarding IOTA
22   HCM Stage 1s (C00-20020204-025) was presented. **ACTION: This contribution**
23   **was remanded to WG1, WG2, and WG3 for review and comment with WG1**
24   **acting as a focal point for the response to TSG-S.**

25   •   Correspondence dated 23 January 2002 from TSG-S to TSG-A regarding features
26   without Stage 1s (C00-20020204-026) was presented. This contribution was noted as
27   FYI for the TSG.

28   •   Correspondence dated 23 January 2002 from TSG-S to TSG-P regarding Zero-Byte
29   IP Header Compression (C00-20020204-027) was presented. This contribution was
30   noted as FYI for the TSG.

31   •   Correspondence dated 23 January 2002 from TSG-S to all TSGs regarding Proposed
32   NAM changes (C00-20020204-028) was presented. **ACTION: This contribution**
33   **was remanded to WG1, WG2, and WG3 for review and action as appropriate.**

34   •   Correspondence dated 23 January 2002 from TSG-S regarding TSG-C work item
35   worksheet and status review (C00-20020204-029) was presented. **ACTION: This**
36   **contribution was remanded to WG1, WG2, and WG3 as FYI.**

37   •   Correspondence dated 23 January 2002 from TSG-S to all TSGs regarding Fast Call
38   Setup (C00-20020204-030) was presented. **ACTION: This contribution was**
39   **remanded to WG1, WG2, and WG3 for review and comment with WG1 acting**
40   **as a focal point for the response to TSG-S.**

1 • Correspondence dated 23 January 2002 from TSG-S to TSG-A regarding Inter-TSG
2   Coordination (C00-20020204-031) was presented. **ACTION: This contribution**
3   **was remanded to WG1, WG2, and WG3 as FYI.**

4 • Correspondence dated 23 January 2002 from TSG-S to all TSGs regarding review and
5   comment on proposed worksheets and update of active work items (C00-20020204-
6   032) was presented. **ACTION: This contribution was remanded to WG1, WG2,**
7   **and WG3 for review and comment with WG1 acting as a focal point for the**
8   **response to TSG-S.**

9 • Correspondence dated 23 January 2002 from TSG-S to TSG-A regarding TSG-A
10   review and comment on proposed worksheets (C00-20020204-033) was presented.
11   This contribution was noted as FYI for the TSG.

12 • Correspondence dated 23 January 2002 from TSG-S to TSG-C and TSG-N regarding
13   PN-4925 security (C00-20020204-034) was presented. This contribution was noted
14   as FYI for the TSG.

15 8.   LIAISON REPORTS:

16 • The Chair reported that the two (2) major items were discussed at the recent SC
17   meeting:

18   • Sync Channel issue

19   • 3GPP2 Secretariat stressed that TSGs must limit 3GPP2 financial exposure for
20   unplanned meetings, specifically those scheduled not to be collocated with the
21   regularly scheduled TSG meetings. 3GPP2 was forced to pay major penalties
22   for the last 3GPP/3GPP2 Harmonization meeting.

23 9.   WORKING GROUP REPORTS:

24 • WG2 Chair, Orlett Pearson (Lucent), noted that an interim WG2 meeting was held on
25   15 January 2002. WG2 focused on working on some old business items and began
26   work on 1xEV-DV signaling. These conference calls will be on-going as necessary to
27   facilitate the work.

28 • WG3 Chair, Ed Tiedemann (QUALCOMM), noted that two (2) interim WG3
29   conference calls had been held. WG3 focused on several 1xEV-DV items but no
30   decisions were made. WG3 will meet with TSG-A to present an overview of
31   cdma2000 Release C. Also working on requirements report for TSG-S. No response
32   has been received from 3GPP on the channel modeling work between 3GPP and
33   3GPP2. Therefore, the WG3 Chair assumes that no harmonization meeting will be held
34   this month. WG3 still needs clear delineation of WG5 status and the transfer of its
35   responsibilities.

36 • The WG5 Co-Chair loaded a copy of the WG5 terms of reference onto the server.
37   **DECISION: The TSG Chair directed all remaining WG5 work items be**
38   **transferred to WG2 and WG3 and that WG5 is now officially disbanded. The**
39   **Chair thanked the Co-Chairs for their efforts and the group applauded their**
40   **efforts.**

1   10.   OLD BUSINESS:

2   •   The Chair then opened discussion on an Ericsson contribution entitled "Defer Revision
3   B capabilities until after 1xEV-DV is published" that had been held open from the
4   Vancouver meeting (C00-20020107-003). There was substantial discussion on this
5   issue including strong opinions on both sides.   After this discussion, the Chair directed
6   that cdma2000 Release B be prepared for release to SDOs for review and comment by
7   the closing Plenary per the direction of the recent SC meeting. Ericsson noted their
8   objection to this course of action for the following reasons:

9   •   The implications of the cdma2000 Release C development are not known at
10   this time.

11   •   The SC did not have all facts at the time they issued their direction.

12   **DECISION: The release of cdma2000 Release B without the Sync Channel fix**
13   **was approved over the sole objection of Ericsson.**

14   This contribution was then closed without further action.

15   **ACTION: The Chair directed that WG2 and WG3 review their activities for**
16   **completion of cdma2000 Release C and cdma2000 Release B, based on the**
17   **decisions made at this meeting on this date, and to provide their updated status**
18   **with respect to the time plan in effect for 1xEV-DV at the closing Plenary.**

19   •   The Chair then opened discussion on an Ericsson contribution entitled "Freeze features
20   in 1xEV-DV revision only to those agreed to in July 2001" that was held open from the
21   Vancouver meeting (C00-20020107-004). There was substantial discussion on this
22   topic with the following comments:

23   •   The only feature being considered for Release C, over and above those agreed
24   to in July 2001, is IP Broadcast Services.

25   •   The Chair had issued a directive at the Vancouver meeting that all additional
26   features to be incorporated in Release C must be approved at the Plenary level.

27   The Chair asked if there were any objections to including IP Broadcast Services in
28   Release C. Sprint PCS noted its objection if the WGs could not confirm that the
29   schedule for Release C would not be delayed.

30   After substantial discussion, Ericsson made the following motion: "TSG-C shall include
31   IP Broadcast Services at the same status as those items currently being considered for
32   inclusion in cdma2000 Release C". The motion was seconded by Nokia. TI,
33   ArrayComm, and Lucent, and Alltel all objected. Reference: MOTION-0202-01.
34   The results were as noted below:

35   •   YES   14

36   •   NO   9

37   •   ABSTAIN   13

The vote was valid (23 of the 38 available votes were cast for or against) but the YES votes failed to produce a 71% majority of the votes cast for or against (only 61% of the votes cast for or against were cast in favor of the motion). **DECISION: IP Broadcast Services will not be added to the list of items being considered for cdma2000 Release C.**

This contribution was closed without any further action.

9.   NEW BUSINESS: None.

This session was recessed on 4 February 2002 at 5:35 PM local time.

CLOSING PLENARY

The meeting was reconvened on 8 February 2002 at 8:35 AM local time.

Quorum had been established at the opening Plenary and was not challenged. One (1) additional member company was noted in attendance.

10.   WORKING GROUP REPORTS (continued):

- WG1 REPORT: The WG1 report (C00-20020204-101) was presented by the WG1 Chair, Phil Brown (Ericsson), as FYI.

  - Reviewed and updated TSG-C workplan including all recently assigned project numbers

  - Approved baseline text for C.P9020 VoIP Service Using Header Stripping and Generation

  - Received draft baseline text for TTY 50 baud addendum to both EVRC and 13K codecs. This text will be integrated into both codec documents by April 2002.

  - Noted that the Editor of C.S0001 resigned some time ago and a volunteer for that position is actively being sought.

  - Noted that a new revision of the TTY MPS will be required. Work will begin following completion of incorporation of TTY 50 baud into the EVRC and 13K vocoder specifications.

  - Generated return correspondence to ISO regarding MPEG-4.

  - Agreed to address 1xEV-DV in the release of C.P0017-A currently in development. Therefore, the release of that document will be delayed until April 2002.

  - Ballot resolution for both R-UIM and CCAT is still in process and intended to be completed at the March 2002 meeting.

  - A bug was identified in the SMS specification that was approved for publication at the last meeting. Corrective text has been developed and approved.

1   •   Requirements Review AdHoc received eight (8) new documents this meeting in addition
2   to the seven (7) carried over from the last meeting. Managed to complete review of the
3   seven (7) carry-overs and two (2) of the new documents. Six (6) will be carried over
4   to the next meeting.

5   The 50 baud TTY capability for the EVRC (C00-20020204-127) and 13K (C00-20020204-
6   126) codecs were noted as FYI.

7   **DECISION: Proposed baseline text for C.P9020 VoIP Service Using Header**
8   **Stripping and Generation (C00-20020204-111) was approved without objection as**
9   **baseline text. ACTION: This contribution was remanded to WG1 for V&V.**

10   **DECISION: Proposed correspondence to TSG-A in reply to questions on VoIP and**
11   **GRE framing (C00-20020402-112) was approved without objection for transmission.**

12   **DECISION: Proposed correspondence to ISO/IEC regarding proposed changes to the**
13   **MPEG-4 Visual Simple Scalable Profile (C00-20020204-124) was approved without**
14   **objection for transmission.**

15   **DECISION: Corrected text for C.S0015-A SMS specification v2.0 (C00-20020204-**
16   **128) was approved without objection for publication. This document will be released to**
17   **the 3GPP2 Secretariat as an update to the specification that was approved for**
18   **publication at the last meeting.**

19   **DECISION: Proposed correspondence to TSG-S in reply to the "TSG-S Liaison dated**
20   **23 January 2002 re: Review and Update of Stage 2/3 Dates" (C00-20020204-121R2)**
21   **was approved without objection for transmission.**

22   **DECISION: Proposed correspondence to TSG-S regarding comments on the CDMA**
23   **Wideband Speech Coder Worksheet (C00-20020204-122R1) was approved without**
24   **objection for transmission.**

25   **DECISION: Proposed correspondence to TSG-S regarding TSG-C requirements**
26   **review activity (C00-20020204-123R1) was approved without objection for**
27   **transmission.**

28   **DECISION: TSG-C Workplan 2002 v2 (C00-20020204-124) was adopted without**
29   **objection.**

30   **DECISION: C.S0001-B cdma2000 Introduction (C00-20010105-002) was approved**
31   **without objection for release to SDOs for review and comment.**

32   •   WG2 REPORT: The WG2 report (C00-20020204-102) was presented by the WG2 Chair,
33   Orlett Pearson (Lucent), as FYI.

34   •   Reviewed IOTA Stage 1 and noted no comments. Action on all other Stage 1s was
35   deferred until the next meeting.

36   •   Approved C.S0005-A v5.99 after Motorola withdrew TIA ballot comment #10.

37   •   Confirmed development schedule for Release B and Release C.

1   •   Held a joint meeting between WG2.3 and WG3 to discuss WG2.3 issues of concern.

2   **DECISION: The following WG2 Release A documents, without the Sync Channel fix,**
3   **were all approved without objection for publication:**

4   •   **C.P0003-A cdma2000 MAC v5.99 (C00-20020204-105)**

5   •   **C.P0004-A cdma2000 LAC v5.99 (C00-20020204-106R1)**

6   •   **C.P0005-A cdma2000 Layer 3 Signaling v5.99 (C00-20020204-107)**

7   •   **C.P0006-A cdma2000 Analog v5.99 (C00-20020204-108)**

8   **DECISION: The following WG2 Release B documents, without the Sync Channel fix,**
9   **were all approved without objection for SDO review and comment:**

10   •   **C.P0003-B cdma2000 MAC v1.0 (C00-20020204-117)**

11   •   **C.P0004-B cdma2000 LAC v1.0 (C00-20020204-118)**

12   •   **C.P0005-B cdma2000 Layer 3 Signaling v1.0(C00-20020204-119)**

13   •   **C.P0006-B cdma2000 Analog v5.99 (C00-20020204-120)**

14   •   WG3 REPORT: The WG3 report (C00-20020204-103) was presented by WG3 Chair, Ed
15   Tiedemann (QUALCOMM), as FYI.

16   •   ITU AdHoc met to review a proposal to the ITU-R WP 8F US Delegation for a new
17   RSPC submission process which does not meet 3GPP2 requirements. A
18   correspondence to ITU-R was generated requesting modifications that would facilitate
19   3GPP2 processes.

20   •   Approved both C.S0002-A and C.S002-B text.

21   •   With respect to 1xEV-DV activities:

22   •   Agreed to maintain the 8PSK modulation type.

23   •   Still considering the adjustment of code rates used by QPSK modulation.

24   •   Still no resolution on completing HARQ attempts in process during the fast cell
25   selection process.

26   •   Approved the inclusion of dynamic T_TDROP

27   •   Attempting to determine where the text belongs for supervisory procedures
28   using power control bits and pilot levels

29   •   Still attempting to resolve issues related to encoder packet sizes

30   •   Agreed upon the modulation/coding/CRC/scrambling structure for the
31   F-SPDCCH. Still working on the form of the 1/3 rate code.

32   •   Agreed to remove the F-PPDCCH.

33   •   Issues related to FL channels to provide scheduling for the RL is still open.

34   •   Up/down C/I feedback is still open.

1   •   Attempting to select which of the three (3) proposed methods for BS activation
2   of a mobile from Control Hold to Active will be included in the specification.
3   Text development will assume BS activation bits. Decision on whether or not
4   an alternate method will also be specified is still open.

5   •   Confirmed development schedule for Release B and Release C.

6   **DECISION: C.S0002-A cdma2000 Physical Layer v5.99 (C00-20020204-115) was**
7   **approved without objection for publication.**

8   **DECISION: C.S0002-B cdma2000 Physical Layer v0.99 (C00-20020204-116) was**
9   **approved without objection for release to SDOs for review and comment.**

10   **DECISION: Proposed correspondence to the ITU-R WP 8F regarding the 3GPP2**
11   **recommendation for modifications to the RSPC update process (C00-20020204-114)**
12   **was approved without objection for transmission to the 3GPP2 SC Chair. The SC**
13   **Chair will be requested to forward this document, after review and approval by the**
14   **OPs, to the ITU Counselor, Collin Langtry, with a copy to the ITU IMT-2000 Program**
15   **Manager, Fabio Leite, by 15 February 2002.**

16 •   WG4 REPORT: The WG4 report (C00-20020204-104) was presented by SWG4.2 Chair,
17   Kurt Bantle (Spirent Technologies), as FYI.

18   •   Targeting completion of next releases of the cdma2000 Minimum Performance
19   Specifications (C.S0010-B and C.S0011-B) for the April 2002 meeting.

20   •   C.P9019 Signaling Conformance Tests for High Rate Packet Data Networks was
21   approved for SDO review and comment.

22   **DECISION: C.P9019 Signaling Conformance Tests for cdma2000 High Rate Packet**
23   **Data Networks (C00-20020204-109) was approved without objection for SDO review**
24   **and comment.**

25 11.   NEW BUSINESS:

26   •   E-mail correspondence dated 4 February 2002 from the 3GPP2 Secretariat noting the
27   approval of C.R1001-C v1.0, C.S0015-A v1.0, and C.S0024-0 v3.0
28   (C00-20020204-110) was noted as FYI.

29   •   **DECISION: The TSG-C development schedule for Release B and Release C**
30   **(C00-20020204-113) was adopted without objection.**

31   •   **DECISION: The Chair indicated that no new items, other than those items**
32   **required for ballot resolution, should be reviewed by WGs without the approval**
33   **of the Plenary.**

34 12.   ASSIGNMENTS: No open action items other than contribution remands and distribution of
35   output documents.

36 13.   OPEN DISCUSSION AND OTHER BUSINESS: None.

1   14.   FUTURE MEETING SCHEDULE:

11-15 March 2002	Portopia Hotel in Kobe, Japan
15-19 April 2002	Holiday Inn in Alexandria, VA
13-17 May 2002	Newport Beach, CA

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3   15.   ADJOURNMENT: The Plenary was adjourned on 8 February 2002 at 11:50 AM local time.

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

NUMBER	SUBJECT	SOURCE
OPENING PLENARY - 3GPP2-C00-20020204-		
000	DOCUMENT REGISTER	SECRETARY
001	AGENDA	CHAIR
002	TSG-C Meeting summary - January 2002 - Vancouver, BC	SECRETARY
003	Work Item Status List	PMT
004	Correspondence dated 23 January 2002 regarding Review and Update of Stage 2/3 Dates for 3GPP2 Work Plan	TSG-S
005	SC Sync Channel AdHoc Proposal	3GPP2 SC
006	Correspondence dated 10 January 2002 to TSG-C and TSG-N regarding 3GPP2 IETF activities	TSG-P
007	Correspondence dated 29 January 2002 to TSG-A regarding IOS scheduling impacts	TSG-P
008	Correspondence dated 11 January 2002 regarding VoIP GRE Framing	TSG-A
009	Correspondence dated 11 January 2002 to all TSGs regarding lack of Stage 1 document	TSG-N
010	Correspondence dated 11 January 2002 to TSG-S regarding Evolution Document version 1.0.5	TSG-N
011	Correspondence dated 11 January 2002 to TSG-S regarding NAM updates	TSG-N
012	Correspondence dated 11 January 2002 to TSG-S regarding Priority Service worksheet	TSG-N
013	Undated correspondence to all TSGs regarding Q.1742.1	LUCENT
014	Correspondence to multiple recipients dated 29 January 2002 regarding completion of the revision of M.1457 - progress report to WP 8F	ITU IMT-2000 PROGRAM MANAGER
015	Correspondence to the 3GPP2 IFAST Liaison sent on 15 January 2002	WG2
016	Proposed correspondence to 3GPP2 Secretariat regarding TSG-C requirements for technical writing support	TSG-C
017	Correspondence dated 23 January 2002 to TSG-N regarding TSG-N comments on Legacy Call Features in All IP Networks - Stage 1	TSG-S
018	Correspondence dated 23 January 2002 to all TSGs regarding system requirements for IP-Based Service Architecture	TSG-S
019	Correspondence dated 23 January 2002 to TSG-A regarding TSG-A comments on All IP System Requirements	TSG-S
020	Correspondence dated 23 January 2002 to all TSGs regarding Instant Messaging Stage 1	TSG-S
021	Correspondence dated 21 January 2002 to all TSGs regarding Presence Service Stage 1	TSG-S

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022	Correspondence dated 23 January 2002 to all TSGs regarding final review of Subscribed Rate for Packet Data Service Stage 1	TSG-S
023	Correspondence dated 23 January 2002 to all TSGs regarding R-UIM/ME Interface Testing Stage 1	TSG-S
024	Correspondence dated 23 January 2002 to all TSGs regarding Broadcast Multicast Phasing	TSG-S
025	Correspondence dated 21 January 2002 to all TSGs regarding IOTA HCM Stage 1	TSG-S
026	Correspondence dated 23 January 2002 to TSG-A regarding features without Stage 1s	TSG-S
027	Correspondence dated 23 January 2002 to TSG-P regarding Zero-byte IP Header Compression	TSG-S
028	Correspondence dated 23 January 2002 to all TSGs regarding Proposed NAM changes	TSG-S
029	Correspondence dated 23 January 2002 regarding TSG-C work item worksheet and status review	TSG-S
030	Correspondence dated 23 January 2002 to all TSGs regarding Fast Call Setup	TSG-S
031	Correspondence dated 23 January 2002 to TSG-A regarding Inter-TSG coordination	TSG-S
032	Correspondence dated 21 January 2002 to all TSGs regarding review and comment on proposed worksheets and update of active work items	TSG-S
033	Correspondence dated 21 January 2002 to TSG-A regarding TSG-A review and comment on proposed worksheets	TSG-S
034	Correspondence dated 23 January 2002 to TSG-C and TSG-N regarding PN-4295 Security	TSG-S
WG1 - APPLICATION SERVICES - 3GPP2-C10-20020204-		
001	Draft Agenda	CHAIR
002		
003		
004	Meeting Summary #31 (December, 2001) - approved	Chair
005	PMT Work Item status update (C00-20020204-003)	TSG-S PMT
006	PMT report and request for update on Stage 2/3 dates (C00-20020204-004)	TSG-S PMT
007	Corr re: VoIP GRE Framing (C00-20020204-008)	TSG-A
008	Requirements for IP-Based Service Architecture (C00-20020204-018)	TSG-S
009	Corr re: Instant Messaging Stage 1 preliminary review (C00-20020204-020)	TSG-S
010	Corr re: Presence Service Stage 1 preliminary review (C00-20020204-021)	TSG-S
011	Corr re: Subscribed Rate for Packet Data Service final review (C00-20020204-022)	TSG-S

012	Corr re: R-UIM/ME Interface Testing Stage 1 final review (C00-20020204-023)	TSG-S
013	Corr re: Broadcast/Multicast Phasing (C00-20020204-024)	TSG-S
014	Corr re: IOTA-HCM Stage 1 preliminary review (C00-20020204-025)	TSG-S
015	Corr to TSG-A re: Features without Stage 1s (C00-20020204-026)	TSG-S
016	Corr to TSG-P re: Zero-Byte IP Header Compression (C00-20020204-027)	TSG-S
017	Corr re: Proposed NAM Changes (C00-20020204-028)	TSG-S
018	Corr re: response to TSG-C Work Item worksheet review (C00-20020204-029)	TSG-S
019	Corr re: Fast Call Setup Stage 1 preliminary review (C00-20020204-030)	TSG-S
020	Corr to TSG-A re: Inter-TSG Coordination (C00-20020204-031)	TSG-S
021	Corr re: Review & Comment on 5 Work Item worksheets (C00-20020204-032)	TSG-S
101	SWG1.1 report	SWG1.1
102	SWG1.2 report	SWG1.2
103	SWG1.3 report	SWG1.3
104	SWG1.4 report	SWG1.4
105		
106		
107	Draft reply to TSG-A re: VOIP GRE Framing	SWG1.3
108	Proposed baseline text for C.P9020 VOIP Service Using HSG	SWG1.3
109	Proposed response to ISO/IEC re: MPEG 4 Visual	SWG1.2
110	Proposed response to TSG-S re: CDMA Wideband Codec	SWG1.1
111	Proposed baseline text for EVRC 50-baud TTY capability	SWG1.1
112	Proposed baseline text for 13K 50-baud TTY capability	SWG1.1
113	Proposed response to TSG-S re: R-UIM/ME Interface Testing & IOTA-HCM Stage 1s	SWG1.4
114	TSG-C 2002 Work Plan V2 - draft	SWG1.5
115	Proposed response to TSG-S PMT re: updated Stage 2/3 dates	SWG1.5
116	Status update on RR AHG activity	RR AHG
SWG1.1 - VOICE SERVICES- 3GPP2-C11-20020204-		
001	Agenda	CHAIR
002	Report of the December 2001 TSG-C1.1 Voice Services Meeting	CHAIR
003	CDMA Wideband Coder Work Item	TSG-S
004	Proposed Stage 1 Requirements for the Wideband Speech Codec for CDMA Systems	TSG-S
005	TSG-S Wideband Codec Presentation	TSG-S

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006	TTY-MPS Agreements	LUCENT
007	SMV Fixed-point Bug	LUCENT
008	Wideband Coding Reply to TSG-S	CHAIR
009	Proposed Baseline Text for C.S0014-0-3; EVRC TTY/TDD Extension	LUCENT
010	Proposed Baseline Text for C.S0020-0-3; 13K Vocoder TTY/TDD Extension	LUCENT
SWG1.2 - VIDEO SERVICES - 3GPP2-C12-20020204-		
001	Draft Agenda	CHAIR
002	Contribution Log	CHAIR
003	Meeting Report of the Previous Meeting	CHAIR
004	Correspondence from ISO/IEC MPEG Video Group	ISO/IEC
005	File Format Proposal for MMS and Download Services	KDDI
006	Multimedia Streaming Services	FRANCE TELECOM
SWG1.3 - DATA SERVICES - 3GPP2-C13-20020204-		
001	Agenda	CHAIR
002	January 7-11, 2002 Meetings Summary	VICE-CHAIR
003	Contribution Status	CHAIR
004	January 23 Joint Conference Call with C2.1 Meeting Summary	CHAIR
005	January 29 Conference Call Meeting Summary	CHAIR
006	Header Stripping and Generation Service Option Text	LUCENT
007	=C10-20020204-007=C00-20020204-008 VoIP Questions	TSG-A
008	=C10-20020204-016=C00-20020204-027 IP Header Compression Options	TSG-S
009	Lucent Response to TSG-A Questions	LUCENT
010	Questions Concerning DV Control Hold Mode	WG2
011	Response to TSG-A Re: VoIP Questions	CHAIR
012	VoIP using LLA ROHC SO Description - SO 61	ERICSSON, NOKIA
013	Simple solution for RLP retransmission in 1xEV-DV	NOKIA
SWG1.4 - ANCILLARY SERVICES AND MS INTERFACES - 3GPP2-C14-20020204-		
001	Agenda	CHAIR
002	(Draft) Meeting Summary: 2002_01_Vancouver	CHAIR
003	Approved Meeting Summary: 2001_12_Maui	CHAIR
004	R-UIM/ME Interface Testing Stage 1 (C00-20020204-023)	TSG-S
005	IOTA Stage 1 (C00-20020204-025)	TSG-S
006	PRL Support for HRPD	QUALCOMM
007	Technical descriptions in C.S0015-A	QUALCOMM
008	Proposed text changes for Qualcomm ballot comments for C.S0023-A	QUALCOMM

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009	Proposed text changes on Qualcomm ballot comments for C.S0035-0	QUALCOMM
010	C.S0023-A Call Count	GEMPLUS
011	Proposed text for Ballot Comment on C.S0023-A	LSI LOGICS
012	CCAT Ballot Resolution text v0.4	EDITOR
SWG1.5 - WORKPLAN - 3GPP2-C15-20020204-		
001	Proposed Agenda	CHAIR
SWG1.6 - LOCATION SERVICES - 3GPP2-C16-20020204-		
WG2 - SIGNALING AND PROTOCOL - 3GPP2-C20-20020204-		
001	Agenda	CHAIR
002	1xEV-DV - FL Supervision	ERICSSON
003	Contribution Log	CHAIR
004	Work Item Status	TSG-S PMT
005	IP Based Service Architecture Stage 1	TSG-S
006	Instant Messaging Stage 1	TSG-S
007	Presence Stage 1	TSG-S
008	Subscriber Rate for Packet Data Stage 1	TSG-S
009	IOTA Stage 1	TSG-S
010	TSG-S PMT response to TSG-C	TSG-S
011	Fast Call Set Up Stage 1	TSG-S
012	Correspondence from TSG-S to TSG-A re: Inter-TSG Coordination	TSG-S
013	Work Sheet Stage 1	TSG-S
014	Correspondence form TSG-S to TSG-A re: Work sheet	TSG-S
015	PN-4925 Security	TSG-S
016	WG 3 open issues	SWG 3
017	DV Control Hold Mode	SWG 3
018	Cryptosync for encryption algorithm in C.S0024/TIA/EIA/IS-856	QUALCOMM
019	GPS Search Response Correspondence	WG 1
020	C.S0005-A-AD2 v6.0	SWG 3
021	TIA/EIA/IS-2000.5-A-2	SWG 3
101	Response form WG 3 to WG 2	WG 3
102	C.S0003-A v5.99	CHAIR
103	SWG 3 meeting summary	SWG 3 CHAIR
104	C.S0004-A v5.99	CHAIR
105	C.S0005-A v5.99 (cover)	CHAIR

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106	C.S0006-A v5.99 (cover)	CHAIR
107	1xEV-DV + Revision B Schedule. Document updated by the TSG-C Secretary.	INPUT FROM WG2 AND WG3.
SWG2.1 - MAC - 3GPP2-C21-20020204-		
SWG2.2 - LAC - 3GPP2-C22-20020204-		
SWG2.3 - L3 SIGNALING - 3GPP2-C23-20020204-		
001	Agenda	CHAIR
002	Meeting Summary, 1/2002	CHAIR
003	Contributions Log	CHAIR
004	Forward link supervision of packet data user	ERICSSON
005	Presentation on Motorola BC#10	MOTOROLA
006	IS2000-A-2 bug fixes and editorials	MOTOROLA
007	Active Set procedures for F-PDCH for the Universal Handoff Direction Message	LUCENT
008	C.S0005-A v6.0 proposed publication version (redline)	EDITOR
009	IS-2000-5-A-2 proposed publication version (redline)	EDITOR
010	Mobile Station signaling text modifications to support EV-DV	SAMSUNG
011	Meeting Summary, 1/2002	CHAIR
012	Contributions Log	CHAIR
SWG2.4 - ANALOG - 3GPP2-C24-20020204-		
SWG2.5 - HIGH RATE PACKET DATA - 3GPP2-C25-20020204-		
WG3 - PHYSICAL LAYER - 3GPP2-C30-20020204-		
001	Agenda	CHAIR
002	Meeting summary, Vancouver	Chair TSG-C3
003	Contribution List, V74	Chair TSG-C3
004	cdma2000 Release C Text	Qualcomm
005	Forward link Supervision of packet data user	Ericsson
006	Meeting summary, January 30, 2002, Conference Call	Chair
007	Denso Dynamic TTDROP-Further Results	Denso
008	3GPP2 Work Item State 1 Status	3GPP2 SECRETARIAT
009	Letter on transposition process	ITU IMT-2000 PROGRAM MANAGER

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010	Performance Comparison of Different Mobile Station Capabilities in 1xTREME	NOKIA
011	Introduction to 1xEV-DV Air Interface	MOTOROLA
012	3GPP2 TSG-C Working Group V 1xEV-DV Requirements Report and Overview	NOKIA
013	System requirements for IP -Based Service Architecture - cover letter	TSG-S
014	Re: TSG-A Comments on All IP System Requirements	TSG-S
015	Correspondence regarding Instant Messaging – Stage 1	TSG-S
016	Correspondence regarding Presence Service – Stage 1	TSG-S
017	Correspondence regarding Final Review of Subscribed Rate for Packet Data Service Stage -1	TSG-S
018	Correspondence regarding Broadcast Multicast Phasing	TSG-S
019	Correspondence regarding IOTA HCM (Internet Over-the -Air Handset Configuration Management) Stage -1 - cover letter	TSG-S
020	Correspondence regarding Zero -Byte IP Header Compression	TSG-S
021	Correspondence regarding Proposed NAM Changes	TSG-S
022	Correspondence regarding TSG-C Work Item worksheet and status review	TSG-S
023	Correspondence regarding Fast Call Setup - cover letter	TSG-S
024	Correspondence regarding Inter-TSG Coordination	TSG-S
025	Correspondence regarding Review and Comment on Proposed Worksheets & Update of Active Work Items - cover letter	TSG-S
026	Correspondence regarding TSG-A review and comment on Proposed Worksheets	TSG-S
027	Correspondence regarding PN-4925 Security	TSG-S
028	M.1457 Update Schedule	CINGULAR
029	System level results with new F-SPDCCH channel structure	QUALCOMM
030	Brief Working Group 5 Summary	CHAIR
031	F-SPDCCH Structure Design	LGE
032	The Blind Slot Length Detection for F-SPDCCH	LGE
033	Effect on the Number of Available Walsh Codes on System Throughput	LGE
034	F-SPDCCH Structure (2) - Results of Blind Detection	SAMSUNG
035		SAMSUNG
036		SAMSUNG
037		LUCENT
038		NORTEL
039	Performance of Activation Bits	MOTOROLA
040	MS Battery Life Saving via Activation Bits	MOTOROLA
041	Performance Evaluation of the New Control-Hold Design	QUALCOMM

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042	1xEV-DV Mobile Station Classifications and Requirements	QUALCOMM
043	CSHO - Concept, Q & A	LSI
044	CSHO - Simulation Study	LSI
045	Cell Selection Handoff – Signaling Text (Stage 2)	LSI
046	Mobile Station Capabilities	NOKIA AND LSI
047	Cell Selection Procedure with One CQICH	NOKIA
048		NOKIA
049		QUALCOMM
050	Additional Simulation Results on the Voice Channel Capacity Enhancement with 2x2 STS in 1xEV-DV	LUCENT
051	MIMO Architecture Proposal for the F-PDCH	LUCENT
052	1xEV-DV Control Hold Limitations	TANTIVY
053	Pre-Filtered Leaky Differential C/I Encoding: Further Results and Comparison	LSI
054	Design of R-CQICH with Pre-Filtered Leaky Differential Encoder	LSI
055	SWG23 list of DV Open Issues for WG3	SWG2.3
056	Proposed CQICH Operation	QUALCOMM
057	Comments on the Pre-Filtered Leaky C/I Feedback Method	QUALCOMM
058		LUCENT
059	DVCH to Active state transition delay in a mobile-initiated transition	ERICSSON
060	Time schedule for week	CHAIR
WG4 - PERFORMANCE - 3GPP2-C40-20020204-		
WG4.1 - PHYSICAL PERFORMANCE - 3GPP2-C41-20020204-		
SWG4.2 - SIGNALING CONFORMANCE - 3GPP2-C42-20020204-		
001	Agenda	CHAIR
002	Vancouver meeting summary	CHAIR
003	IS-856 SCS RedLined	QUALCOMM
004	Lucent Geolocation	LUCENT
005	QC MS Inactivity Timer	QUALCOMM
006	QC IS-898-A format convention	QUALCOMM
007	898A Sprint AHO AEHO CAHSO	SPRINT
008	Sprint 898rA Section 2 Trace Updates	SPRINT
009	Proposed SDO review of C.P9019	QUALCOMM
010	Proposed Ballot Version of SCS for HRPD networks	QUALCOMM

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SWG4.3 - LOCATION TEST - 3GPP2-C43-20020204-		
CLOSING PLENARY - 3GPP2-C00-20020107-		
101	WG1 Report	WG1
102	WG2 Report	WG2
103	WG3 Report	WG3
104	WG4 Report	WG4
105	C.S0003-A cdma2000 MAC v5.99	WG2
106	C.S0004-A cdma2000 LAC v5.99	WG2
107	C.S0005-A cdma2000 Layer 3 Signaling v5.99	WG2
108	C.S0006-A cdma2000 Analog v5.99	WG2
109	C.P9019 Signaling Conformance for cdma2000 High Rate Packet Data Networks - proposed SDO review version	WG4
110	E-mail correspondence dated 4 February 2002 regarding approval of C.R1001-C, C.S0015-A, and C.S0024	3GPP2 SECRETARIAT
111	C.P9020 Header Stripping and Generation SO 60 - proposed baseline text	WG1
112	Proposed correspondence to TSG-A in response to VoIP questions	WG1
113	TSG-C schedule for Release B and Release C development	SECRETARY
114	Proposed recommendation to ITU-R WP 8F regarding modified RSPC submission process	WG3
115	C.S0002-A cdma2000 Physical Layer v5.99	WG3
116	C.S002-B cdma2000 Physical Layer v0.99	WG3
117	C.S0003-B cdma2000 MAC v1.0	WG2
118	C.S0004-B cdma2000 LAC v1.0	WG2
119	C.S0005-B cdma2000 Layer 3 Signaling v1.0	WG2
120	C.S0006-B cdma2000 Analog v1.0	WG2
121	Proposed correspondence to TSG-S in reply to PMT Report	WG1
122	Proposed correspondence to TSG-S regarding wideband CDMA codec	WG1
123	Proposed correspondence to TSG-S regarding Stage 1 review	WG1
124	Proposed correspondence to ISO/IEC regarding MP4 visual coder	WG1
125	TSG-C workplan 2002 v2	WG1
126	Draft text for 13k TTY 50 baud coder	WG1
`127	Draft text for EVRC TTY 50 baud coder	WG1
128	Corrected C.S0015-A SMV specification	WG1

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3GPP2 QUORUM ROLL CALL				
TSG-C (CDMA2000)				
February 8, 2002				
COMPANY	**Attendance 02/04/2002**	**Attendance 02/08/2002**	**Consecutive Mtgs Missed**	**Quorum Status at Mtg Start**
ADVANTEST	1		0	1
AGILENT TECHNOLOGIES			1	1
AIRVANA			1	0
ALLTEL	1		0	1
ARRAYCOMM	1		0	1
BELL MOBILITY	1		0	1
CAMBIA NETWORKS	1		1	1
COMMWORKS			0	1
COMVERSE			3	**0**
DENSO	1		0	1
DOCOMO US LABORATORIES	1		0	1
ERICSSON	1		0	1
ETRI			0	0
FRANCE TELECOM	1		2	1
FUJITSU	1		0	1
GEMPLUS	1		0	1
HITACHI	1		2	1
HYUNDAI			0	1
KDDI	1		0	1
KT FREETEL	1		1	1
KYOCERA	1		0	1
LEAP WIRELESS	1		0	1
LG ELECTRONICS	1		0	1
LG TELECOM	P		1	1
LINKAIR	1		0	1
LSI LOGIC	1		0	1
LUCENT	1		0	1
MATSUSHITA/PANASONIC	1		0	1
MOTOROLA	1		0	1
NEC	1		0	1
NEXTEL	1		0	1
NOKIA	1		0	1
NORTEL NETWORKS	1		0	1
PHILIPS	1		0	1
PRAIRIECOMM			2	1
QUALCOMM	1		0	1
QUICKSILVER			3	**0**
ROHDE & SCHWARZ	1		0	0
SAMSUNG	1		0	1
SCHLUMBERGERSEMA	1		0	1
SEROME TECHNOLOGY			3	**0**
SIERRA WIRELESS			0	1
SIRF TECHNOLOGY			0	1
SK TELECOM	P		2	1
SORRENTO TELECOM	1		0	1
SPIRENT COMMUNICATIONS		1	0	1
SPRINT PCS	1		0	1
TANTIVY COMMUNICATIONS	1		0	1
TEXAS INSTRUMENTS	1		0	1
TOSHIBA	1		0	1
VERIZON WIRELESS			0	1
ZTE			3	**0**
TOTALS	**35**	**1**		**45**
QUORUM CALCULATION	**78%**	**2%**		
ADDITIONS				
AWARD SOLUTIONS	1			
OBSERVERS AND GUESTS				
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 if they attend the next mtg				
- P = proxy letter in force				

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1   <u>**VOTE FOR MOTION-0202-01**</u>

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3   Ericsson made the following motion: "TSG-C shall include IP Broadcast Services at the same status as

4   those items currently being considered for inclusion in cdma2000 Release C". The motion was

5   seconded by Nokia. TI, ArrayComm, and Lucent, and Alltel all objected. Reference:

6   MOTION-0202-01.

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COMPANY	Attendance 02/04/2002	MOTION # 0202-01	Consecutive Mtgs Missed	Quorum Status at Mtg Start
ADVANTEST	1		0	1
AGILENT TECHNOLOGIES			1	1
AIRVANA			1	0
ALLTEL	1	N	0	1
ARRAYCOMM	1	N	0	1
BELL MOBILITY	1	N	0	1
CAMBIA NETWORKS	1	A	1	1
COMMWORKS			0	1
COMVERSE			3	**0**
DENSO	1	A	0	1
DOCOMO US LABORATORIES	1	A	0	1
ERICSSON	1	N	0	1
ETRI			0	0
FRANCE TELECOM	1	A	2	1
FUJITSU	1	Y	0	1
GEMPLUS	1	A	0	1
HITACHI	1	A	2	1
HYUNDAI			0	1
KDDI	1	Y	0	1
KT FREETEL	1	Y	1	1
KYOCERA	1	A	0	1
LEAP WIRELESS	1	Y	0	1
LG ELECTRONICS	1	Y	0	1
LG TELECOM	P	Y	1	1
LINKAIR	1	A	0	1
LSI LOGIC	1	Y	0	1
LUCENT	1	N	0	1
MATSUSHITA/PANASONIC	1	A	0	1
MOTOROLA	1	A	0	1
NEC	1	Y	0	1
NEXTEL	1	Y	0	1
NOKIA	1	N	0	1
NORTEL NETWORKS	1	N	0	1
PHILIPS	1	A	0	1
PRAIRIECOMM			2	1
QUALCOMM	1	Y	0	1
QUICKSILVER			3	**0**
ROHDE & SCHWARZ	1	A	0	0
SAMSUNG	1	Y	0	1
SCHLUMBERGERSEMA	1		0	1
SEROME TECHNOLOGY			3	**0**
SIERRA WIRELESS			0	1
SIRF TECHNOLOGY			0	1
SK TELECOM	P	Y	2	1
SORRENTO TELECOM	1	Y	0	1
SPIRENT COMMUNICATIONS			0	1
SPRINT PCS	1	N	0	1
TANTIVY COMMUNICATIONS	1	Y	0	1
TEXAS INSTRUMENTS	1	N	0	1
TOSHIBA	1	A	0	1
VERIZON WIRELESS			0	1
ZTE			3	**0**
TOTALS	**35**	**0**		**45**
QUORUM CALCULATION	**78%**	**0%**		