| 1                          | Title:  |
|----------------------------|---|
| 2                          | Approved Summary of 3GPP2 TSG-C Meetings for 26-30 March 2001 in Seattle, WA  |
| 3                          | Source:   |
| 4                          | Clifton J. Barber   |
| 5<br>6<br>7                | SECRETARY<br>Tantivy Communications 1450 S. Babcock Street Melbourne, FL 30291<br>(404) 608-1977 Fax (404) 608-1977 <u>cbarber@tantivy.com</u>  |
| 8                          | Abstract:   |
| 9<br>10<br>11              | This document is a summary of the 3GPP2 TSG-C meetings which were held during the period 26-30 March 2001 in Seattle, WA. Recommendation:   |
| 12<br>13                   | Review and adopt.   |
| 14                         | Notice:   |
| 15                         | © 2001 3GPP2  |
| 16<br>17<br>18<br>19<br>20 | The contributor grants a free, irrevocable license to 3GPP2 and its partner organizations to incorporate text contained in this contribution and any modifications thereof in the creation of a 3GPP2 standards publication; to copyright in the name of 3GPP2 or its partner organizations any standards publication even though it may include portions of this contribution; and, at 3GPP2's sole discretion, to permit others to reproduce in whole or in part the resulting 3GPP2 standards publication. |

- 1 During the period of 26-30 March 2001, meetings of 3GPP2 TSG-C were held at the W Hotel in
- 2 Seattle, WA. This document is intended to summarize those proceedings.
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# 4 **OPENING PLENARY**

- CALL TO ORDER AND OPENING REMARKS: The meeting was called to order at
   10:20 AM local time on 26 March 2001 by TSG-C Chair, Jean Alphonse (Lucent).
- ATTENDANCE REGISTRATION AND ROLL CALL: A roll call of companies indicated
   that 32 companies included on the list of 40 active members were present and thus quorum was
   established (80% participation).
- 103.INTRODUCTION AND NUMBERING OF CONTRIBUTIONS: Contributions were11loaded onto the 3GPP2 server and listed in the document register (C00-20010326-000R1).
- AGENDA APPROVAL: The proposed agenda (C00-20010326-001) was presented and approved without objection
- ASSIGNMENTS OF CONTRIBUTIONS TO AGENDA ITEMS: Contributions were
   assigned to agenda items.
- APPROVAL OF PREVIOUS MEETING SUMMARY: The summary for the February 2001
   meeting in Phoenix, AZ (C00-20010326-002) was presented and approved without objection
   as modified by the discussion (C00-20010326-002R1).
- 19 7. CORRESPONDENCE: None.
- 20 8. LIAISON REPORT:
- Correspondence dated 12 March 2001 to all TSGs from the TSG-S All IP AdHoc
   regarding the All IP Project Plan (C00-20010326-004) was presented. The
   correspondence requested:
  - Review the Project Plan and return comments for the AdHoc's April 2001 meeting.
- Assign a liaison to the AdHoc to assist in maintenance of the Project Plan.
- 27This correspondence was remanded to WG1 for review and response by closing28Plenary.
- The TSG-S Liaison Report (C00-20010326-012R1) was presented as FYI.
- Correspondence dated 16 March 2001 to TR45.2 regarding the proposed Stage 1
   Template (C00-20010326-013) was presented. This correspondence was remanded
   to all WGs for review and comment if warranted by closing Plenary.
- Correspondence dated 16 March 2001 from TSG-S to all other TSGs regarding
   S.P0003-A SCG for Release B (C00-20010326-014) was presented. This
   contribution was remanded to WG1 for review and comment by closing Plenary.

| 1<br>2<br>3                      |    | •   | Correspondence dated 16 March 2001 to TIA TR45.3 and the TIA TR45 UIM-ESN AdHoc regarding the baseline text of S.P00323(C00-20010326-015) was presented. This contribution was remanded to all WGs for review and comment if warranted.   |
|----------------------------------|----|-----|---|
| 4<br>5<br>6                      |    | •   | Correspondence dated 16 March 2001 from TSG-S to all other TSGs regarding the revised TSG-S All IP AdHoc terms of reference (C00-20010326-016) was presented as FYI.  |
| 7<br>8<br>9<br>10                |    | •   | Correspondence dated 16 March 2001 from TSG-S to all other TSGs regarding a 3GPP2 Vision Document (C00-20010326-017) was presented. This contribution was remanded to all TSG-C participants for review and comment. However, the Chair declined to direct generation of a TSG-C position on this document.   |
| 11<br>12<br>13<br>14             |    | •   | Correspondence dated 16 March 2001 from TSG-S to all other TSGs regarding the proposed response to the ITU-T SSG inquiry on SSG Question 3 (C00-20010326-018) was presented. This correspondence was remanded to WG1 for review and response by closing Plenary. Related issues discussed included the following:   |
| 15<br>16<br>17<br>18<br>19       |    |     | • TSG-S will host a Document Numbering JEM in Atlanta on the evening on<br>9 April 2001. TSG-C WG1 Chair, Phil Brown (Ericsson) will Chair this JEM<br>and all TSG Chairs were strongly recommended to attend by the 3GPP2 SC<br>Chair. The TSG-C Chair noted that he would assign TSG-C representation at<br>the closing Plenary.  |
| 20<br>21<br>22<br>23             |    |     | • The TSG-S Liaison noted that the TSG-C policy of using addenda for bug fixes was indicated to be in conflict with the current 3GPP2 document numbering policy since a bug fix release should replace and invalidate the previous release that had the bugs (i.e., should be an up rev).   |
| 24                               |    | •   | The TSG-S All IP AdHoc Status Report (C00-20010326-019) was presented as FYI.   |
| 25<br>26<br>27                   |    | •   | Correspondence dated 14 March 2001 to all TSGs from the TSG-S All IP AdHoc regarding procedures to change the All IP Responsibility Matrix (C00-20010326-020) was presented as FYI.   |
| 28<br>29<br>30                   |    | •   | Correspondence dated 14 March 2001 to all TSGs from the TSG-S All IP AdHoc regarding actions to archive the All IP Requirements Document (C00-20010326-021) was presented as FYI.   |
| 31                               | 9. | OLD | BUSINESS  |
| 32<br>33<br>34<br>35<br>36<br>37 |    | •   | A contribution on clarification of proponents of 1XTREME (C00-20010326-010) was presented by Nokia on behalf of three (3) additional contributors. This contribution expressed concern regarding the failure of the 3GPP2 Activity Summary presented at the recent CDG SC meeting to list all of the proponents of 1XTREME. As the source and author of that summary, Clif Barber (Tantivy Communications) made the following comments: |

| 1<br>2<br>3<br>4            |   | • The summary for CDG was prepared and submitted by Oki Network<br>Technologies (Clif's employer at the time) at the request of the CDG. This was<br>confirmed by CDG. The author suggested that, as such, the recommendations<br>to TSG-C may be inappropriate. |   |   |
|-----------------------------|---|--|---|---|
| 5<br>6<br>7<br>8<br>9<br>10 |   | • The chart in question was lat<br>the companies that originally<br>author believed the chart to<br>the author inadvertently faile<br>Networks and this omission<br>presentation.  | y submitted the framework<br>be correct as presented<br>and to include the iflex pro- | ork proposal. As such, the<br>in that respect. However,<br>pposal from Nortel |
| 11<br>12<br>13              |   | • The author agreed to accep<br>WG5, if available, for inclus<br>available, the chart in question  | sion in future reports to   | CDG. If such a report is not  |
| 14                          |   | Further action on this contribution v  | vas deferred by the Cha   | ir to closing Plenary.  |
| 15<br>16<br>17              | • | Correspondence dated 23 March 2001 to the 3GPP2 SC Chair from the CDG Executive Board (C00-20010326-022) was presented. This correspondence included the following:  |   |   |
| 18<br>19                    |   | • Support for TSG-C prioritiz<br>Release B activities in that c  |   | ease 0, Release A, and  |
| 20<br>21<br>22              |   | • An assumption that the 1xE<br>October 2001 timeframe as<br>related to the 1xEV-DV dev  | requested or, if not, req   | uest for specific information   |
| 23<br>24<br>25              |   | Regarding the 1xEV-DV status, there was substantial discussion that the information requested was not available and that the effort to provide that information out of sequence of normal WG5 activities would delay their activities.                           |   |   |
| 26<br>27                    |   | This contribution was remanded to WG5 to provide a response related to the TSG-C 1xEV-DV status by closing Plenary.  |   |   |
| 28<br>29<br>30              | • | A contribution on ITU-R WP 8F re-<br>presented by Nokia. This contribution<br>respect to 1xEV-DV:  | -   |   |
| 31                          |   | Planning information   | February 2001   | Complete  |
| 32                          |   | Overview update  | June 2001   |   |
| 33                          |   | • Best and final overview  | October 2001  |   |
| 34                          |   | Final Specification  | April 2002  |   |
| 35                          |   | This contribution was remanded to  | WG5 as FYI.   |   |

| 1<br>2<br>3<br>4                                   | •              | C.S0022-0-1 Position Determination Addendum (C00-20010326-003) was<br>presented. This is the 3GPP2 version of the TIA standard that was published last<br>month with all TIA ballot comments resolved. This contribution was approved without<br>objection for publication.   |
|--|----------------|---|
| 5<br>6<br>7<br>8<br>9<br>10                        | •              | A summary of the TSG-C SWG1.2 conference call on the speech codec for video streaming (C00-20010326-005) was presented by SWG1.2. An associated contribution on a recommended approach to speech codec for video streaming (C00-20010326-006) that recommended that all speech codecs be optional (i.e., no default speech codec) was presented by Conexant on behalf of four (4) other contributors. These contributions were remanded to WG1 for review and action as appropriate.  |
| 11<br>12<br>13<br>14<br>15<br>16<br>17             | •              | A contribution on consideration for timely implementation of Access Control based on<br>Call Type (ACCT) (C00-20010326-007) was presented by KDDI on behalf of two<br>(2) other contributors. There was general consensus that ACCT should be<br>incorporated ASAP. This contribution was remanded to WG2 for review and action as<br>appropriate. The WG2 Chair indicated that incorporation into the cdma2000 Release 0<br>addendum would not be feasible but an attempt would be made to include this support<br>in the Release A addendum and in Release B.   |
| 18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26 | •              | A presentation on CDMA Advanced Multimedia Services (CAMS) (C00-20010326-<br>008) was presented by Ericsson. This contribution, along with an associated CAMS<br>recommendation contribution (C00-20010326-009), recommended the creation of a<br>Program Management function which is responsible to and empowered by the 3GPP2<br>SC to manage 3GPP2 specification development activities via the development and<br>implementation of a high-level view of the cdma2000 air interface and network release<br>plan. The contributor noted that these recommendations will be presented to the<br>3GPP2 SC in April 2001. The contribution was remanded to WG1 for review and<br>comment as appropriate. |
| 27<br>28<br>29                                     | •              | The Chair also advised that, due to the prioritization of activities associated with cdma2000 Release 0, Release A, and Release B, the deadline for submission of Release B DDRs was extended until the next meeting.   |
| 30   | 10. NEW        | BUSINESS: None.   |
| 31   | This session v | vas recessed on 26 March 2001 at 1:45 PM local time.  |
| 32   |                |   |
| 33   | CLOSING P      | LENARY  |

- 34 The meeting was reconvened on 30 March 2001 at 10:30 AM local time.
- 35 Quorum had been established at the opening Plenary and was not challenged. One (1) additional
- 36 company was noted in attendance.

- 1 The Chair has directed that an interim Plenary conference call will be held on 24 April 2001 for the
- 2 purpose of approving cdma2000 Release 0 addendum for publication for SDO ballot.
- 3 The Secretary advised that the Chair will contact the 3GPP2 Secretariat to solicit the services of a
- 4 professional editor to convert the EVRC document (written in a version of Word for the MAC where
- 5 all equations are implemented as drawings) to a document which is maintainable using more current
- 6 editing tools (including the equations).
- 7 The Secretary noted that the Chairman's team has recommended a TSG-C position in support of
- 8 collocation with the other TSGs on as many meetings as possible in year 2002. The currently proposed
- 9 3GPP2 year 2000 schedule was reviewed and the Chair indicated that TSG-C was well positioned with 10 respect to this issue.
- 11 A motion was made by Tantivy and duly seconded to add an eleventh meeting for next year during the 12 month of May (still leaving November open) if the meeting can be collocated with at least one (1) other
- 13 TSG. The motion passed based on the following voting results:
- 14
   •
   YES
   14

   15
   •
   NO
   3

   16
   •
   ABSTAIN
   14
- In addition, during the course of subsequent discussions, the Chair provided the following directionregarding WG V&V of their own work:
- WG Chairs should broadcast baseline text (or the associated URL for access) to invite review
   and comment using 3GPP2 e-mail exploders.
- V&V comments must be submitted in writing using standard DDR procedures although formal
   DDR forms may not be available.
- 23
- 24 7. CORRESPONDENCE (continued): None additional.
- 25 8. LIAISON REPORTS (continued): None additional.
- 26 9. OLD BUSINESS (continued): None additional.
- WG1 REPORT: The WG1 report (C00-20010326-101) was presented by the WG1 Chair,
   Phil Brown (Ericsson), as FYI.
- Approved SMV algorithm for recommendation as baseline text on schedule.
- Approved Video Streaming for recommendation as baseline text.
- Had substantial discussions on the Ericsson CAMS proposal (C00-20010326-008 and C00-20010326-009) and noted general agreement with the intent. However, no conclusions were reached and there was no official comment at this time.

| 1<br>2<br>3<br>4<br>5 | Held preliminary review of All IP Workplan and noted several items which are<br>potentially resource and time consuming for TSG-C. However, TSG-C currently has<br>limited resource availability not already committed to cdma2000 activities. In addition,<br>scope of some items was unclear with respect to support on cdma2000 Release 0,<br>Release A, and Release B. No official comment at this time. |  |  |
|-----------------------|--|--|--|
| 6<br>7                | The Chair indicated that he would query CDG regarding priorities and resources related to this effort.   |  |  |
| 8<br>9                | Had cursory review of proposed 3GPP2 response to ITU-T queries from TSG-S but unable to complete detailed review. As such, no comment at this time.  |  |  |
| 10<br>11              | Reviewed Stage 1 template from TSG-S and had no comment at this time but did agree that modifications will be required for IP Multimedia features.   |  |  |
| 12<br>13<br>14<br>15  | Scott Migaldi (Motorola) was named as the new SWG1.4 Chair Ancillary Services.SWG1.4 will hold the following conference calls prior to the next TSG meeting:•10 April 20015:00 PM US centralOTASP•12 April 20015:00 PM US centralSMS   |  |  |
| 16<br>17<br>18        | C.P9001 SMV Algorithm Description (C00-20010326-126) was presented. This contribution vas approved without objection as baseline text. This document was remanded to WG1 for /&V in the absence of a V&V Chair.  |  |  |
| 19<br>20<br>21        | C.P9007 Video Streaming Service (C00-20010326-127) was presented. This contribution vas approved without objection as baseline text. This document was remanded to WG1 for /&V.  |  |  |
| 22<br>23<br>24        | The updated TSG-C Workplan v2 (C00-20010326-128) was presented. A new section was dded to track new proposals which have not been officially approved as work items by the CSG. This contribution was approved without objection.  |  |  |
| 25 •<br>26            | WG2 REPORT: The WG2 report (C00-20010326-102) was presented by the WG2 Chair, Drlett Pearson (Lucent) as FYI.  |  |  |
| 27<br>28<br>29<br>30  | Reviewed issues related to the inclusion of ACCT into cdma2000. Determined that inclusion into Release 0 was desirable but not currently feasible based on the baseline text schedule. Committed to inclusion into Release A and mandatory for the MS and optional for the BS.   |  |  |
| 31<br>32              | Completed modifications to all signaling layer cdma2000 Release 0 volumes and approved for recommendation as baseline text.  |  |  |
| 33                    | Sean Kelly (Motorola) was named as Chair of SWG2.4 Analog Signaling.   |  |  |
| 34<br>35<br>36        | Correspondence to TSG-A regarding IOS messages related to MOB_P_REV (C00-<br>20010326-117) was presented. This correspondence was approved without objection for<br>ransmission.   |  |  |

Correspondence to TSG-S regarding comments on the Stage 1 template (C00-20010326-1 2 118) was presented. This contribution was approved without objection for transmission 3 pending modification of the first comment at the editor's discretion. An updated version 4 (C00-20010326-118R1) was subsequently made available on the server. 5 The following contributions were presented: 6 • C00-20010326-119 C.P0003-0-2 cdma2000 MAC Release 0 Addendum 7 • C00-20010326-120 C.P0004-0-2 cdma2000 LAC Release 0 Addendum C.P0005-0-2 cdma2000 Layer 3 Release 0 8 • C00-20010326-121 9 Addendum 10 C00-20010326-122 C.P0006-0-2 cdma2000 Analog Release 0 • 11 Addendum 12 These contributions were all approved without objection as baseline text and remanded to 13 WG2 for V&V. 14 The WG2 Chair stressed the urgency of securing a new V&V Chair. 15 • WG3 REPORT: The WG3 report (C00-20010326-103) was presented by WG3 Chair, Ed 16 Tiedemann (QUALCOMM), as FYI. 17 • Reviewed issues related to RSPC submission to ITU. 18 Discussed issues related to harmonization of high-speed packet data specifications with • 19 3GPP. 20 Correspondence to 3GPP TSG-RAN (C00-20010326-125) was presented. The contribution 21 was approved without objection for transmission. 22 C.S0002-0-2 cdma2000 Physical Layer Release 0 Addendum (C00-20010326-123) was 23 presented. The contribution was approved without objection as baseline text and remanded to 24 WG3 for V&V. The Release 0 Addendum Physical Layer Discrepancy List (C00-25 20010326-125) was also noted as FYI. 26 WG4 REPORT: The WG4 report (C00-20010326-104) was presented by WG4 Vice Chair, • 27 Dave Whipple (Agilent), as FYI. 28 The following contributions were presented: 29 • C00-20010326-109 C.S0010-A BS Minimum Performance Specification 30 • C00-20010326-110 C.S0011-A MS Minimum Performance Specification 31 • C00-20010326-111 C.S0013 Loopback Service Option (LSO) 32 C.S0025 Markov Service Option • C00-20010326-112 33 • C00-20010326-113 C.S0026 Test Data Service Option

| 1                                |     | These contributions were approved for publication.   |
|----------------------------------|-----|--|
| 2<br>3<br>4                      |     | C.P9015 Test Application Specification for 1xEV-DO (C00-20010326-114) was presented. This contribution was approved without objection as baseline text and remanded to WG4 for V&V.  |
| 5<br>6<br>7                      |     | C.P9014 Signaling Conformance Test Specification (C00-20010326-115) was presented.<br>This contribution was approved without objection as baseline text and remanded to WG4 for V&V.   |
| 8<br>9                           |     | A request for project number for PDE Simulator Messages Specification (C00-20010326-<br>116) was presented. Project number C.P9017 was assigned.   |
| 10<br>11                         | •   | WG5 REPORT: The WG5 report (oral report) was presented by the WG5 Co-Chair, Ed Tiedemann (QUALCOMM), as FYI.   |
| 12<br>13                         |     | • Received six (6) new component technology proposals but did not have time for detailed review. These proposals will during conference calls starting on 18 April 2001.   |
| 14<br>15                         |     | • Continued with Evaluation Phase 1. Three (3) open items remaining. Evolution AdHoc has been directed to get closure on these items by 11 April 2001.   |
| 16                               |     | • No consensus on the creation of a Similarities and Differences (SaD) AdHoc.  |
| 17<br>18<br>19                   |     | • Framework proposal proponents estimated that Evaluation Phase 1 simulations could be completed on their proposals (not on competitive proposals) in the June to July+timeframe.  |
| 20<br>21<br>22<br>23<br>24<br>25 |     | Correspondence to the CDG (over the signature of the 3GPP2 SC Chair) (C00-20010326-129) in response to the correspondence remanded by the opening Plenary was presented. This contribution was approved without objection for transmission as modified by the discussion (C00-20010326-129R1). Since this correspondence provided a preliminary response to the CDG inquiries, the CDG correspondence (C00-20010326-022) was left open at the Plenary level until a more compete response can be determined. |
| 26                               | •   | WG6 REPORT: No report.   |
| 27                               | 10. | NEW BUSINESS:  |
| 28                               |     | • The Chair was requested to query CDG for support regarding a new V&V Chair.  |
| 29                               | 11. | ASSIGNMENTS:   |
| 30<br>31                         |     | • The Chair assigned the following persons to represent TSG-C at the upcoming Document Publication JEM:  |
| 32                               |     | Bob Marks (Lucent)   |
| 33                               |     | Clif Barber (Tantivy Communications)   |
| 34                               |     | • The Chair committed to contact CDG regarding the following issues:   |
| 35                               |     | • Priorities and resources related to year 2001 workload including All IP.   |

- Support for a new V&V Chair.
- The Chair committed to contact the 3GPP2 Secretariat regarding a professional text
   editor to convert the EVRC specification from its older file version to a version which is
   maintainable using current versions of editing tools.

#### 5 12. FUTURE MEETING SCHEDULE:

| 24 April 2001   | Interim Plenary conference call to approve the Release 0 Addendum |
|-----------------|---|
| 7-11 May 2001   | Marquis Palm Springs Hotel in Palm Springs, CA                    |
| 11-15 June 2001 | Vancouver, BC   |
| 9-13 July 2001  | Montreal, PQ  |

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- 7 13. OPEN DISCUSSION AND OTHER BUSINESS: None.
- 8 14. ADJOURNMENT: The Plenary was adjourned on 30 March 2001 at 12:25 PM local time.

| NUMBER             | SUBJECT  | SOURCE  |
|--------------------|--|---|
| <b>OPENING PLE</b> | NARY - 3GPP2-C00-20010326-   |   |
| 000                | DOCUMENT REGISTER  | SECRETARY   |
| 001                | AGENDA   | CHAIR   |
| 002                | Meeting summary - February 2001 - Phoenix, AZ  | SECRETARY   |
| 003                | C.S0022-0-1 Position Determination Services proposed publication text  | WG1   |
| 004                | All IP Project Plan v0.1   | TSG-S ALL IP ADHOC                                  |
| 005                | Summary of TSG-C SWG1.2 conference call - speech codec for video streaming   | SWG1.2  |
| 006                | Recommended Approach to Audio Codec for Video Streaming  | KDDI, CONEXANT,<br>MOTOROLA, NOKIA, and<br>QUALCOMM |
| 007                | Consideration for Timely Implementation of Access Control<br>Based on Call Type (ACCT)   | KDDI and SPRINT PCS                                 |
| 008                | CAMS presentation  | ERICSSON  |
| 009                | CAMS recommendations   | ERICSSON  |
| 010                | Clarification of Proponents of 1XTREME   | NOKIA, MOTOROLA, TI, and<br>PHILIPS                 |
| 011                | ITU-R WP8F RSPC Revision 1 Update Timeline   | NOKIA   |
| 012                | TSG-S Liaison Report   | TSG-S LIAISON                                       |
| 013                | Approved Stage 1 template v0.3   | TSG-S   |
| 014                | S.P0003-A SCG Release B v0.2   | TSG-S   |
| 015                | Correspondence dated 16 March 2001 to TR45.3 and TR45<br>UIM-ESN AdHoc regarding UIM ID Guidelines   | TSG-S   |
| 016                | Correspondence dated 16 March 2001 to all TSGs regarding TSG-S All IP AdHoc ToRs   | TSG-S   |
| 017                | Correspondence dated 16 March 2001 to all TSGs regarding 3GPP2 vision document   | TSG-S   |
| 018                | Correspondence dated 16 March 2001 to all TSGs regarding<br>proposed response to inquiry from ITU-T SSG on IMT-2000<br>and Beyond Question 3 | TSG-S   |
| 019                | TSG-S All IP AdHoc Status Report   | TSG-S ALL IP ADHOC LIAISON                          |
| 020                | Correspondence dated 14 March 2001 to all TSGs regarding procedure to change the 3GPP2 All IP Responsibility Matrix                          | TSG-S ALL IP ADHOC                                  |
| 021                | Correspondence dated 16 March 2001 to all TSGs regarding action regarding All IP Requirements document                                       | TSG-S ALL IP ADHOC                                  |
| 022                | Correspondence dated 23 March 2001 to 3GPP2 SC Chair regarding priorities of cdma2000 1x work items  | CDG   |

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

| WG1 - APPLICATION SERVICES - 3GPP2-C10-20010326- |   |   |  |
|--|---|---|--|
| 001  | Agenda  | CHAIR   |  |
| 002  | Contribution Status   | CHAIR   |  |
| 003  | Meeting Summary #21 (February, 2001) - draft                                    | CHAIR   |  |
| 004  | Meeting Summary #20 (January, 2001) - approved                                  | CHAIR   |  |
| 005  | Meeting Summary #18 (October, 2000) - approved                                  | CHAIR   |  |
| 006  | Meeting Summary #16 (August, 2000) - approved                                   | CHAIR   |  |
| 007  | (C00-20010326-018) Corr re: ITU-T SSG "IMT-2000 and Beyond" Q3                  | TSG-S   |  |
| 008  | CAMS presentation (C00-20010326-008)  | ERICSSON  |  |
| 009  | CAMS recommendation (C00-20010326-009)  | ERICSSON  |  |
| 010  | All-IP Project Plan V0.1 (C00-20010326-004)                                     | TSG-S ALL-IP AHG                                    |  |
| 011  | Summary of 3/13/01 conference call (C00-20010326-005)                           | SWG1.2  |  |
| 012  | Recommended approach to audio codec for video streaming (C00-20010326-006)      | KDDI, CONEXANT,<br>MOTOROLA, NOKIA, and<br>QUALCOMM |  |
| 013  | Approved Stage 1 template V0.3 (C00-20010326-013)                               | TSG-S   |  |
| 014  | S.P0003-A SCG Release B V0.2 (C00-20010326-014)                                 | TSG-S   |  |
| 015  | Corr re: UIM_ID Guidelines (C00-20010326-015)                                   | TSG-S   |  |
| 016  | Request for SO number for SMV   | SWG1.1  |  |
| 017  | PDDM request  | QUALCOMM  |  |
| 018  | C.S0023-0-1/IS-820-1 proposed publication versions                              | QUALCOMM  |  |
| 019  | Service Programming Code status   | QUALCOMM  |  |
| 020  | SP-4742 ballot comments   | TIA TR-45.5   |  |
| 021  | SWG1 report   | SWG1  |  |
| 022  | SWG2 report   | SWG2  |  |
| 023  | SWG3 report   | SWG3  |  |
| 024  | SWG4 report   | SWG4  |  |
| 025  | SWG5 report   | SWG5  |  |
| 026  | Revised Year 2001 Workplan  | SWG5  |  |
| 027  | SWG6 report   | SWG6  |  |
| 028  | Video Streaming Service proposed baseline text                                  | SWG2  |  |
| 029  | TIA PN-4690-AD1 proposed ballot resolution text                                 | SWG4  |  |
| 030  | C.P9001 SMV proposed baseline text  | SWG1  |  |
| <mark>WG1.1 - VO</mark>                          | ICE SERVICES- 3GPP2-C11-20010326-   |   |  |
| 001  | AGENDA  | CHAIR   |  |
| 002  | Report of the February 2001 TSG-C1.1 Voice Services Meeting                     | CHAIR   |  |
| 003  | SMV Post-Collaboration Subjective Test - Final Host and<br>Listening Lab Report | COMSAT  |  |

| 001          |  | CO142.17     |
|--------------|--|--------------|
| 004          | SMV Post-Collaboration Subjective Test - Annexes for Final<br>Host and Listening Lab Report          | COMSAT       |
| 005          | Draft of the SMV Minimum Performance Specification   | CHAIR/COMSAT |
| 006          | Summary of the SWG11 March, 2001 Conference Calls  | CHAIR        |
| 007          | RFP for Characterization Phase Testing of the SMV at COMSAT  | CHAIR        |
| 008          | Conexant SMV Program Summary - 7   | CONEXANT     |
| 009          | SMV Proposed Baseline Text   | CONEXANT     |
| 010          | Evolution Guide for SMV MPS document   | CHAIR/COMSAT |
| 011          | Comments on the SMV Baseline Text  | NOKIA        |
| 012          | SMV Characterization Phase Schedule  | CHAIR        |
| 013          | Statement of Work for SMV Characterization Subjective Tests  | CHAIR        |
| 014          | Echo Canceller Requirements for SMV  | NORTEL       |
| SWG1.2 - VII | DEO SERVICES - 3GPP2-C12-20010326-   |              |
| 001          | Draft Agenda   | CHAIR        |
| 002          | Contribution Log   | CHAIR        |
| 003          | Meeting Report of the Previous Meeting   | CHAIR        |
| 004          | Meeting Report of the Previous Conference Call   | CHAIR        |
| 005          | Baseline Text for Video Streaming (C12-20010313-005)   | EDITORS      |
| 006          | HC for video streaming services (C12-20010313-006)   | NOKIA        |
| 007          | Proposed Framework of Baseline Text for Circuit Video<br>Conferencing_r1_by KDDI2 (C12-20010313-007) | EDITORS      |
| 008          | RTP Header Compression using ROHC (C12-20010313-008)   | NOKIA        |
| SWG1.3 - DA  | TA SERVICES - 3GPP2-C13-20010326-  |              |
| 001          | Agenda   | CHAIR        |
| 002          | February 2001 Meeting Summary  | CHAIR        |
| 003          | Contribution Status  | CHAIR        |
| 004          | Consent to Close C13-20000821-006  | MOTOROLA     |
| 005          | March 1, 2001 Conference Call Summary  | CHAIR        |
| 006          | March 15, 2001 Conference Call Summary   | CHAIR        |
| 007          | March 21, 2001 Conference Call Summary   | CHAIR        |
| 008          | QoS BLOB Bug Fixes in IS-707-B   | MOTOROLA     |
| SWG1.4 - AN  | CILLARY SERVICES AND MS INTERFACES - 3GPP2-C14-20010   | )326-        |
| 001          | Agenda   | CHAIR        |
| 002          | Phoenix Meeting Summary  | CHAIR        |
| 003          | IS683B Ballot comments   | TIA          |
| 004          | SAT Stage 1  | 3GPP         |
| 005          | Meeting Summary from WG1.4 and IOTA  | IOTA CHAIR   |
| 006          | Proposed Work Items  | CHAIR        |
| 007          | Overview of GHOST  | GEMPLUS      |

| 008         | Comments to 683B and proposed text  | SWI              |
|-------------|---|------------------|
| 009         | IS683 BRV   | INTERIM EDITOR   |
| 010         | Enhancements for SMA  | KDDI             |
| 011         | S.P0015B rev0.1   | EDITOR           |
| SWG1.5 - WO | ORKPLAN - 3GPP2-C15-20010326-   |                  |
| 001         | Agenda  | CHAIR            |
| 002         | Draft Meeting Summary Jan01(#18)  | CHAIR            |
| 003         | Contribution Status Log   | CHAIR            |
| 004         | All-IP Project Plan V0.1C10-20010326-010 (C00-20010326-004)               | TSG-S ALL IP AHG |
| 005         | S.P0003-A SCG Release B V0.2C10-20010326-014<br>(C00-20010326-014)        | TSG-S            |
| 006         | Release C Features-Functions-Draft  | CHAIR            |
| 007         | Proposal to include additional work items in the TSG-C Year 2001 workplan | SWG1.4           |
| SWG1.6 - LO | CATION SERVICES - 3GPP2-C16-20010326-                                     |                  |
| 001         | Agenda  | CHAIR            |
| 002         | Meeting Summary - Chandler, AZ  | CHAIR            |
| WG2 - SIGNA | ALING AND PROTOCOL - 3GPP2-C20-20010326-                                  |                  |
| 001         | Meeting Agenda  | CHAIR            |
| 002         | Meeting Summary (Feb)   | CHAIR            |
| 003         | By-pass Alert   | LUCENT           |
| 004         | Time Implementation of ACCT   | KDDI             |
| 005         | TSG-S Stage I Template  | TSG-S            |
| 006         | UIM Guidelines  | TSG-S            |
| 007         | Release 0/A Schedule  | CHAIR            |
| 008         | Release 0 Bugs (MAC)  | QUALCOMM         |
| 009         | TR45 AHAG Report  | TR45             |
| 101         | MAC Meeting Summary   | SWG1 CHAIR       |
| 102         | LAC Meeting Summary   | SWG2 CHAIR       |
| 103         | L3 Meeting Summary  | SWG3 CHAIR       |
| 104         | C.S0004-0-2   | SWG2 CHAIR       |
| 105         | Corr re: Location Notification 1xEV-DO                                    | TSG-A            |
| 106         | Corr to TSG-A re: MOB_P_REV issue   | SWG1 CHAIR       |
| 107         | LSI Editorial   | LSI              |
| 108         | ARIB Editorial  | ARIB             |
| 109         | Correspondence to TSG-S re: Stage I Template                              | CHAIR            |
| 110         | Proposed Schedule   | CHAIR            |
| 111         | C.S0006-0-2   | CHAIR            |
| 112         | WGII Meeting Summary  | CHAIR            |

| 113           | C.\$0005-0-2  | SWG3 CHAIR                  |
|---------------|---|-----------------------------|
| 113           | C.S0003-0-2   | SWG1 CHAIR                  |
| 115           | DO Signaling Meeting Summary  | 1XEV-DO CHAIR               |
| _             | C - 3GPP2-C21-20010326-   |                             |
| 001           | Draft Agenda  | CHAIR                       |
| 002           | SWG 2.1,Meeting Summary San Diego   | CHAIR                       |
| 002           | C20-20010326008R1   | QUALCOMM                    |
|               | C - 3GPP2-C22-200101326-  | QUALCOMIM                   |
| 001           | Agenda  | CHAIR                       |
| 002           | Signaling Link Access Control (LAC) Standard for cdma2000<br>Spread Spectrum Systems - Addendum 2 | CHAIR                       |
| 003           | Proposed liaison to TSG-A.  | MOTOROLA                    |
| SWG2.3 - L3 S | IGNALING - 3GPP2-C22-20010326-  |                             |
| 001           | Agenda  | CHAIR                       |
| 002           | Meeting Summary, 02/2001  | CHAIR                       |
| 003           | Contributions Log   | CHAIR                       |
| 004           | Release 0, A, B discrepancy list  | CHAIR                       |
| 005           | Consideration for Timely Implementation of Access Control<br>Based on Call Type (ACCT)            | KDDI, SPRINT PCS, and QWEST |
| 006           | BYPASS_ALERT Requirement discrepancy between BS and MS  | LUCENT                      |
| 007           | Proposed baseline of Release 0 Addendum 2 of cdma2000 L3  | EDITOR                      |
| 008           | Band Class 0 NOM_PWR_EXT issue  | QUALCOMM                    |
| 009           | Paging channel monitoring procedures  | MOTOROLA                    |
| 010           | Idle Handoff Enhancements - Updated text  | QUALCOMM                    |
| 011           | Release Order in the Idle state   | QUALCOMM                    |
| 012           | RL_GAIN_ADJ fix for Rev. 0  | VERANCE                     |
| WG3 - PHYSI   | CAL LAYER - 3GPP2-C30-20010326-   |                             |
| 001           | Agenda  | CHAIR                       |
| 002           | Meeting Summary   | CHAIR                       |
| 003           | Contribution List, V51  | CHAIR                       |
| 004           | ITU-R WP8F RSPC Revision 1 Update Timeline  | NOKIA                       |
| 005           | Proposed TSG-S Stage 1 Template   | TSG-S                       |
| 006           | Administration Guidelines for UIM_ID a.k.a. SIM ESN   | TSG-S                       |
| 007           | Bug Fixes for Release 0 and Release A Addendum 2  |                             |
| 008           | Proposed Physical Layer Text for Rescue Channel Operations<br>(Rev. 2)                            | QUALCOMM                    |
| 009           | Soft Handoff on the Quick Paging Channel - III  | QUALCOMM                    |
| 010           | Errors in cdma2000 Release 0 + Addendum1  | ARIB T53WG SG1              |
| 011           | QPCH Broadcast Indicator Text Cleanup   | VERANCE                     |

| 012                      | list of comments on the received input contributions<br>containing material for revision 1 of recommendation ITU-R<br>M.1457 | ITU-R WP 8 F         |  |
|--------------------------|--|----------------------|--|
| 013                      | CDMA MULTI-CARRIER EVOLUTION   | NOKIA                |  |
| 014                      | Correspondence to Francois Courau, Chair 3GPP TSG-RAN;<br>Re: Proposed Meeting on Fast Packet Access Harmonization           | ITU AD HOC GROUP     |  |
| 015                      | C.S0002-0-2  | PHY ADDENDUM 2 ADHOC |  |
| 016                      | WG3 Ad-hoc ITU-R Report  | ITU AD HOC GROUP     |  |
| WG4 - PERF               | ORMANCE - 3GPP2-C40-20010326-  |                      |  |
|                          |  |                      |  |
| WG4.1 - PHY              | SICAL PERFORMANCE - 3GPP2-C41-20010326-  |                      |  |
|                          |  |                      |  |
|                          |  |                      |  |
|                          | NALING CONFORMANCE - 3GPP2-C42-20010326-   |                      |  |
| 001                      | Agenda   | CHAIR                |  |
| 002                      | Conference Call Summary  | CHAIR                |  |
| 003                      | Chapter 7  | NORTEL               |  |
| 004                      | Status Request   | NORTEL               |  |
| 005                      | DTMF_Sprint  | SPRINT               |  |
| 006                      | CDG57_1.0  | QUALCOMM             |  |
| <mark>SWG4.3 - LO</mark> | CATION TEST - 3GPP2-C43-20010326-  |                      |  |
| 001                      | Meeting Agenda   | CHAIR                |  |
| 002                      | Phoenix Meeting Summary  | CHAIR                |  |
| 003                      | Conference Call Report   | CHAIR                |  |
| 004                      | Draft Test Document  | QUALCOMM             |  |
| 005                      | All Band Class Proposal  | KYOCERA              |  |
| 006                      | Statistical Evaluation Method Proposal   | MOTOROLA             |  |
| 007                      | Test Requirements Introduction   | CONEXANT             |  |
| <mark>VG5 - TECH</mark>  | NOLOGY ASSESSMENT - 3GPP2-C50-20010326-  |                      |  |
| 001                      | Meeting Agenda   | CHAIR                |  |
| 002                      | February 2000 WG-5 Meeting Summary   | CHAIR                |  |
| 003                      | Contribution List  | CHAIR                |  |
| 004                      | FER/Throughput Measurement Feedback for 1xEV-DV  | NOKIA                |  |
| 005                      | 1xEV-DV Similarities and Differences   | NOKIA                |  |
| 006                      | Performance Comparison of Incremental Redundancy and Soft<br>Combining in 1XTREME: Simulation Results                        | NOKIA                |  |
| 007                      | Performance Comparison for 1.25 ms, 2.5 ms, and 5 ms Frame Size in 1XTREME:Simulation Results                                | NOKIA                |  |
| 008                      | Proposed 3GPP2 Stage 1 Template  | TSG-S                |  |

| 000        | Henry Henry first in Medicle Menufecture de Cada Assistances                                       | 20000                |  |
|------------|--|----------------------|--|
| 009        | User Identification Module Manufacturer's Code, Assignment<br>Guidelines and Procedures            | 3GPP2                |  |
| 010        | CDMA 2000 Priorities   | CDG                  |  |
| 011        | ITU-R WP8F RSPC Revision 1 Update Timeline   | NOKIA                |  |
| 012        | Working Group 5 Evaluation AHG Conference Call Meeting<br>Report                                   | EVALUATION ADHOC     |  |
| 013        | Issue List of WG5 Evaluation Ad hoc (Rev.21)   | EVALUATION ADHOC     |  |
| 014        | 1xEV-DV Evaluation Methodology – Strawman (Rev.15)   | EVALUATION ADHOC     |  |
| 015        |  |                      |  |
| 016        | Designing of Reverse Link Hybrid ARQ for 1XEV-DV   | LGE                  |  |
| 017        | IflexUpdate  | NORTEL               |  |
| 018        | Iflexphysical layer specification update   | NORTEL               |  |
| 019        | Iflex upper layer specification update   | NORTEL               |  |
| 020        | Iflex decision matrix response   | NORTEL               |  |
| 021        | Effective Reverse Link Data Rate Control for 1XEV-DV   | SAMSUNG              |  |
| 022        | Probability of Detection and Latency for Maintenance Channel                                       | TANTIVY              |  |
| 023        | Proposed Meeting on Fast Packet Access Harmonization   | TSG-C CHAIR          |  |
| 024        | Proposed Text for dynamically simulate overhead channels<br>associated with DV packet transmission | QUALCOMM             |  |
| 025        | Updated Joint Physical Layer Proposal for 1xEV-DV  | L3QS                 |  |
| 026        | C/I proposal for C/I Estimation Error  | QUALCOMM             |  |
| 027        | Reverse Link Limitations for HTTP carried over TCP   | TANTIVY              |  |
| 028        | Similarities and Differences Ad-Hoc Charter  | NOKIA                |  |
| 029        | Response to CDG letter of 23 March 2001  | ADHOC DRAFTING GROUP |  |
| CLOSING PL | ENARY - 3GPP2-C00-20010326-  |                      |  |
| 101        | WG1 Report   | WG1                  |  |
| 102        | WG2 Report   | WG2                  |  |
| 103        | WG3 Report   | WG3                  |  |
| 104        | WG4 Report   | WG4                  |  |
| 105        | WG5 Report (oral report only)  | WG5                  |  |
| 106        | WG6 Report (no report)   | V&V                  |  |
| 107        | Document Publication JEM notice and agenda   | DOC PUB JEM          |  |
| 108        | All IP New Transcoder JEDI   | ALL IP ADHOC         |  |
| 109        | C.S0010-A BS Minimum Performance Spec Proposed BRV   | WG4                  |  |
| 110        | C.S0011-A MS Minimum Performance Spec Proposed BRV   | WG4                  |  |
| 111        | C.S0013-A LSO Proposed BRV   | WG4                  |  |
| 112        | C.S0025 MSO Proposed BRV   | WG4                  |  |
| 113        | C.S0026 TDSO Proposed BRV  | WG4                  |  |
| 114        | C.P9015 Test Application Specification Proposed Baseline   | WG4                  |  |
| 115        | C.P9014 Conformance Test Proposed Baseline   | WG4                  |  |

| 116 | C.R request for Geolocation Performance Specification WG4  |     |  |  |
|-----|--|-----|--|--|
| 117 | Proposed correspondence to TSG-A regarding IOS   | WG2 |  |  |
| 118 | Proposed correspondence to TSG-S regarding Stage 1 template  | WG2 |  |  |
| 119 | C.S0003-0-2 cdma2000 MAC Layer PBT   | WG2 |  |  |
| 120 | C.S0004-0-2 cdma2000 LAC Layer PBT WG2   |     |  |  |
| 121 | C.S0005-0-2 cdma2000 Layer 3 Signaling PBT   | WG2 |  |  |
| 122 | C.S0006-0-2 cdma2000 Analog PBT  | WG2 |  |  |
| 123 | C.S0002-0-2 cdma2000 Physical Layer PBT  | WG3 |  |  |
| 124 | Discrepancy list for C.S0002-0-2 cdma2000 Physical Layer PBT   | WG3 |  |  |
| 125 | Proposed correspondence to 3GPP TSG-RAN regarding joint harmonization work for high-speed packet data. | WG3 |  |  |
| 126 | C.P9001 SMV algorithm description Baseline text  | WG1 |  |  |
| 127 | C.P9007 Video Streaming baseline text  | WG1 |  |  |
| 128 | TSG-C Year 2001 Workplan   | WG1 |  |  |
| 129 | Proposed correspondence to CDG regarding cdma2000 1x work items  | WG3 |  |  |

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#### 1

## STATUS OF SPECIFICATIONS AND REPORTS BEING DEVELOPED BY TSG-C

| REFERENCE   |              |  |   |  |
|-------------|--------------|--|---|--|
| 3GPP2 TIA   |              | TITLE  | STATUS  |  |
| C.P0001-0-2 |              | cdma2000 Introduction Release 0 Addendum                     | In development                                |  |
| C.P0002-0-2 |              | cdma2000 Physical Layer Release 0 Addendum                   | V&V   |  |
| C.P0003-0-2 |              | cdma2000 MAC Release 0 Addendum                              | V&V   |  |
| C.P0004-0-2 |              | cdma2000 LAC Release 0 Addendum                              | V&V   |  |
| C.P0005-0-2 |              | cdma2000 Layer 3 Signaling Release 0<br>Addendum             | V&V   |  |
| C.P0006-0-2 |              | cdma2000 Analog Release 0 Addendum                           | V&V   |  |
| C.P0001-B   |              | cdma2000 Introduction Release B                              | V&V   |  |
| C.P0002-B   |              | cdma2000 Physical Layer Release B                            | V&V   |  |
| C.P0003-B   |              | cdma2000 MAC Release B                                       | V&V   |  |
| C.P0004-B   |              | cdma2000 LAC Release B                                       | V&V   |  |
| С.Р0005-В   |              | cdma2000 Layer 3 Signaling Release B                         | V&V   |  |
| C.P0006-B   |              | cdma2000 Analog Release B                                    | V&V   |  |
| C.P9001     |              | SMV (Selectable Mode Vocoder) Algorithm<br>Description       | V&V   |  |
| C.P9007     |              | Video Streaming Service                                      | V&V   |  |
| C.P9008     |              | Video Conferencing Service                                   | In development                                |  |
| C.P9009     |              | TTY Minimum Performance Specification                        | In development                                |  |
| C.P9011     |              | Access Network Minimum Performance for 1xEV-DO               | In development                                |  |
| C.P9012     |              | Access Terminal Minimum Performance for 1xEV-DO              | In development                                |  |
| C.P9013     |              | SMV Minimum Performance Specification                        | Target publication date for SDO ballot = 8/01 |  |
| C.P9014     |              | Signaling Conformance Test                                   | V&V   |  |
| C.P9015     |              | Test Application Specification for 1xEV-DO                   | V&V   |  |
| C.P9016     |              | Video Conference - circuit based                             | In development                                |  |
| C.P9017     |              | PDE Simulator Messages Specification                         | In development                                |  |
| C.R1001-B   | TSB-58-D     | Parameter Value Assignments                                  | SDO ballot                                    |  |
| C.S0010-A   | TIA/EIA-97-D | Base Station Minimum Performance for<br>cdma2000 Release A   | Published with SDO comments resolved.         |  |
| C.S0011-A   | TIA/EIA-98-D | Mobile Station Minimum Performance for<br>cdma2000 Release A | Published with SDO comments resolved.         |  |
| C.S0013     |              | Loopback Service Option (LSO) Published w<br>comments r      |   |  |
| C.S0015-A   | IS-637-B     | SMS  | In development                                |  |
| C.S0022-0-1 | IS-801-1     | Position Determination Services Addendum v1                  | Published.                                    |  |
| C.S0023-0-1 | IS-820-1     | R-UIM TIA ballot resolut                                     |   |  |
| C.S0025     | IS-871       | Markov Service Option (MSO)                                  | Published with SDO                            |  |
|             |              |  | comments resolved.                            |  |
| C.S0026     | IS-870       | Test Data Service Option (TDSO)                              | Published with SDO comments resolved.         |  |

| FSG-C (cdma2000)         |            |            |             |               |
|--------------------------|------------|------------|-------------|---------------|
| May 7, 2001<br>COMPANY   | Attendance | Attendance | Consecutive | Quorum Status |
| COMPANY                  | 03/26/2001 | 03/30/2001 | Mtgs Missed | at Mtg Start  |
| G-COM WIRELESS           | 03/20/2001 | 03/30/2001 | 3           |               |
| ADVANTEST                | 1          |            | 0           | 1             |
| GILENT TECHNOLOGIES      |            | 1          | 1           | 1             |
| AIRVANA                  |            |            | 0           | 1             |
| ALCATEL                  |            |            | 1           | 0             |
| BELL MOBILITY            |            |            | 0           | 1             |
| COMMWORKS                | 1          |            | 1           | 1             |
|                          | 1          |            | 0           | 0             |
|                          | 1          |            | 0           | 1             |
| DOCOMO US LABORATORIES   | 1          |            | 0           | 1             |
| FUJITSU                  | 1          |            | 0           | 1             |
| HITACHI                  | 1          |            | 0           | 1             |
| IYUNDAI                  | 1          |            | 3           | 0             |
| KDDI                     | 1          |            | 0           | 1             |
| YOCERA                   | 1          |            | 0           | 1             |
| CC INTERNATIONAL         | 1          |            | 0           |               |
| G ELECTRONICS            | 1          |            | 0           | 1             |
| INKAIR                   | 1          |            | 0           | 1             |
| SILOGIC                  |            |            | 0           | 1             |
|                          | 1          |            | 0           | 1             |
|                          | 1          |            | 0           | 1             |
| MITSUBISHI ELECTRIC      | 1          |            | 0           | 4             |
| NEC                      | 1          |            | 0           | 1             |
| NOKIA                    | 1          |            | 0           | 1             |
| NORTEL NETWORKS          | 1          |            | 0           | 1             |
| OKI NETWORK TECHNOLOGIES | •          |            | 0           | 1             |
| PHILIPS                  | 1          |            | 0           | 1             |
| PRAIRIECOMM              | 1          |            | 0           | 1             |
| QUALCOMM                 | 1          |            | 0           | 1             |
| QUICKSILVER              |            |            | 1           | 1             |
| QWEST COMMUNICATIONS     | 1          |            | 0           | 1             |
| SAMSUNG                  | 1          |            | 0           | 1             |
| SCHLUMBERGER             | 1          |            | 3           | 0             |
|                          | 1          |            | 0           | 1             |
| SIERRA WIRELESS DATA     | 1          |            | 0           | 1             |
| SONY                     | 1          |            | 0           | 1             |
| SPIRENT COMMUNICATIONS   | 1          |            | 0           | 1             |
| SPRINT PCS               | 1          |            | 0           | 1             |
| TANTIVY COMMUNICATIONS   | 1          |            | 0           | 1             |
| TEXAS INSTRUMENTS        | 1          |            | 0           | 1             |
| FOSHIBA                  | 1          |            | 0           | 1             |
| /ERANCE                  |            |            | 0           | 1             |
| VERIZON WIRELESS         | 1          |            | 0           | 1             |
| WINPHORIA NETWORKS       |            |            | 1           | 1             |
| TOTALS                   | 32         | 1          |             | 40            |
| QUORUM CALCULATION       | 80%        | 3%         |             |               |
| ADDITIONS                |            |            |             |               |
| ADDITIONS                |            |            |             |               |
|                          |            |            |             |               |
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|                          |            |            |             |               |
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| DBSERVERS AND GUESTS     |            |            |             |               |
| HUGHES NETWORK SYSTEMS   | 1          |            |             |               |
|                          |            |            |             |               |
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| UORUM STATUS NOTES:      |            |            |             |               |