

1 **Title:**

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2 **APPROVED SUMMARY OF TSG-S MEETING**

3 for 30 October - 2 November 2006 in Northbrook, IL, USA

4 **Source:**

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6 TSG-S SECRETARY

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14 **Abstract:**

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15 This document is a summary of the 3GPP2 TSG-S meetings that were held during the period of  
16 30 October - 2 November 2006 in Northbrook, IL, USA.

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18 **Recommendations:**

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19 For review and approval.

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21 **Notice:**

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34 than provided in the copyright statement above.

1 During the period of 30 October - 2 November 2006, 3GPP2 TSG-S meetings were held at the  
2 Radisson Hotel Northbrook in Northbrook, IL, USA. This document is intended to summarize  
3 those proceedings.

#### 4 **OPENING PLENARY**

5 1. **CALL TO ORDER AND OPENING REMARKS:** The meeting was called to order on  
6 30 October 2006 at 1:32 PM local time by TSG-S Chair, Nick Yamasaki (KDDI).

7 The Chair welcomed the participants to Northbrook.

8 The meeting participants were requested to sign-in electronically using the server sign-in  
9 facility.

10 One (1) guest was noted in attendance as follows: Phil Brown - PBJ Consulting.

11 The Chair announced that Jörg Schmidt (Motorola) was no longer associated with  
12 Motorola and no longer able to act as WG5 Chair. The Chair thanked Jörg for his years  
13 of service.

14 **ACTION: The Chair requested volunteers to serve in the capacity of WG5 Chair.**

15 **ACTION: The Chair remanded an action to WG5 to make a recommendation for**  
16 **someone to serve as the WG5 Chair by the opening Plenary of the December 2006**  
17 **meeting.**

18 2. **ATTENDANCE REGISTRATION AND ROLL CALL:** A roll call of TSG-S active  
19 companies indicated 12 companies in attendance out of 21 active companies (57%  
20 participation). Thus, meeting quorum was achieved.

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

22 3. **DISTRIBUTION AND NUMBERING OF CONTRIBUTIONS:** Contributions were  
23 documented in S00-20061030-000. All contributions were distributed in soft copy format  
24 and made available from the LAN based server.

25 4. **ADOPTION OF AGENDA:** The proposed agenda (S00-20061030-001) was presented  
26 and reviewed. **DECISION: The agenda was approved without objection as**  
27 **submitted (S00-20061030-001).**

28 5. **REVIEW AND APPROVAL OF PREVIOUS MEETING SUMMARY:** The summary of  
29 the September 2006 TSG-S meeting in Xi'an, China (S00-20061030-002) was presented.  
30 **DECISION: This summary was approved as submitted (S0-020061030-002).**

1 6. REVIEW OF ACTION ITEMS FROM PREVIOUS MEETING: The following action  
2 items were left open from the September 2006 meeting and require additional  
3 consideration:

4 060327-01 The summary of the 3GPP2 SC and OP meetings for February 2006 in  
5 Jeju, Korea (S00-20060327-021) was remanded to all WGs for review and action  
6 as appropriate with WG3 taking the lead on SC Action 2006/02-01 and  
7 codification of "clean vs. rev marks" issues. This action remains OPEN until the  
8 October 2006 closing Plenary.

9 This action remains OPEN until the December 2006 closing Plenary.

10 060911-01 The Chair took an action to include an overview of network evolution  
11 issues in the TSG-S Report to the upcoming 3GPP2 SC meeting.

12 **DECISION: This action was CLOSED without objection.**

13 060911-02 To accommodate the joint TSG meeting with NENA, the TSG-S opening  
14 Plenary in Northbrook will commence promptly at 1:00 PM and recess by  
15 4:00 PM local time.

16 **DECISION: This action was CLOSED without objection.**

17 6. CORRESPONDENCE AND LIAISON REPORTS

18 • OP: No contributions.

19 • SC: The following correspondences were discussed:

20 • The Unofficial summary of 3GPP2 SC/OP meetings in Rio de Janeiro,  
21 Brazil (S00-20061030-021) was presented from the Secretary.

22 **ACTION: This contribution with all of its attachments was**  
23 **remanded to all WGs for review and action as appropriate.**

24 **ACTION: TSG-S responsibility for coordination of comments related**  
25 **to TSG-X Scope of Work issues (SC ACTION2006/10-09) was**  
26 **remanded to WG1, WG2, and WG3 for review and comment with**  
27 **comments from the TSG-S WGs and the other TSGs to be**  
28 **coordinated by WG3.**

29 • E-mail correspondence dated 29 October 2006 regarding Clean vs.  
30 Markedup Documents (S00-20061030-028) was presented from the SC  
31 Chair. **ACTION: This contribution was remanded to all WGs for**  
32 **review and action as appropriate.**

- 1           •       3GPP2 SECRETARIAT: The following correspondences were noted from the  
2           3GPP2 Secretariat:
- 3           •       E-mail correspondences regarding SC level review and approval of  
4           S.R0115-0 v1.0 All-IP Network Emergency Call Support Stage 1  
5           Requirements (S00-20061030-014) was presented from the 3GPP2  
6           Secretariat. **ACTION: This contribution was remanded to WG1 as  
7           FYI.**
- 8           •       E-mail correspondence dated 15 September 2006 regarding V&V review  
9           of S.P0078-A v3.1 Common Security Algorithms (S00-20061030-015)  
10          was presented from the 3GPP2 Secretariat. **ACTION: This contribution  
11          was remanded to WG4 as FYI.**
- 12          •       E-mail correspondence dated 14 September 2006 regarding V&V review  
13          of S.P0037-B v0.3 IP Network Architecture Model for cdma2000 Spread  
14          Spectrum Systems (S00-20061030-016) was presented from the 3GPP2  
15          Secretariat. **ACTION: This contribution was remanded to WG2 as  
16          FYI.**
- 17          •       E-mail correspondence dated 18 September 2006 regarding termination of  
18          V&V review of S.P0076-0 v0.76 "A Report on Feature Alignment  
19          between 3GPP2 Specifications" (S00-20061030-017) was presented from  
20          the 3GPP2 Secretariat. **ACTION: This contribution was remanded to  
21          WG3 as FYI.**
- 22          •       E-mail correspondence dated 17 October 2006 regarding seven (7) Work  
23          Items Adopted (S00-20061030-018) was presented from the 3GPP2  
24          Secretariat. **ACTION: This contribution was remanded to WG3 for  
25          review and action as appropriate.**
- 26          •       V&V comments regarding S.P0005-B v1.1 Network Reference Model for  
27          CDMA2000 Spread Spectrum Systems (S00-20061030-023) was  
28          presented from the 3GPP2 Secretariat. **ACTION: This contribution  
29          was remanded to WG2 for review and action as appropriate.**
- 30          •       V&V comments regarding S.P0055-A v3.2 Enhanced Cryptographic  
31          Algorithms (S00-20061030-024) was presented from the 3GPP2  
32          Secretariat. **ACTION: This contribution was remanded to WG4 for  
33          review and action as appropriate.**
- 34          •       V&V comments regarding S.P0078-A v3.1 Common Security Algorithms  
35          (S00-20061030-025) was presented from the 3GPP2 Secretariat.  
36          **ACTION: This contribution was remanded to WG4 for review and  
37          action as appropriate.**

- 1           •       3GPP2 Workplan files for October 2006 (S00-20061030-030) was  
2           presented from the PMT Coordinator. **ACTION: This contribution was**  
3           **remanded to all WGs for review and comment with comments to be**  
4           **coordinated by WG3.**
- 5           •       TSG-A: The following contribution was discussed:
- 6           •       Correspondence dated 14 September 2006 regarding TSG-A Work Item,  
7           Stage 1, LS, and SC Documents for Review (S00-20061030-009) was  
8           presented from TSG-A. **ACTION: This contribution was remanded to**  
9           **WG3 for review and action as appropriate and to the Numbering**  
10          **AdHoc as FYI.**
- 11          •       TSG-C: The following contributions were discussed:
- 12          •       The TSG-C Liaison Report for September 2006 (S00-20061030-003) was  
13          presented from the TSG-C Liaison. **ACTION: The attached WIs**  
14          **(attachments A and B) were remanded to WG3 for review and action**  
15          **as appropriate.**
- 16          •       Correspondence dated 15 September 2006 regarding 3GPP Liaison  
17          Statement on HTTP Digest in ISIM (S00-20061030-004) was presented  
18          from TSG-C. **ACTION: This contribution was remanded to WG4 for**  
19          **review and action as appropriate.**
- 20          •       Correspondence dated 15 September 2006 regarding NENA Liaison  
21          Request (S00-20061030-005) was presented from TSG-C. **ACTION:**  
22          **This contribution was remanded to WG1 and WG3 as FYI.**
- 23          •       Correspondence dated 15 September 2006 regarding Air-Interface  
24          Application Security (S00-20061030-006) was presented from TSG-C.  
25          **ACTION: This contribution was remanded to WG4 for review and**  
26          **action as appropriate.**
- 27          •       Correspondence dated 15 September 2006 regarding Review of Work Item  
28          Worksheets (S00-20061030-007) was presented from TSG-C. **ACTION:**  
29          **This contribution was remanded to WG3 for review and action as**  
30          **appropriate.**
- 31          •       Correspondence dated 15 September 2006 regarding TSG-C Updates to  
32          3GPP2 Workplan (S00-20061030-008) was presented from TSG-C.  
33          **ACTION: This contribution was remanded to WG3 for review and**  
34          **action as appropriate.**
- 35          •       TSG-X: The following contributions were discussed from TSG-X:
- 36          •       Correspondence dated 15 September 2006 regarding Work Item Review  
37          (S00-20061030-010) was presented from TSG-X. **ACTION: This**  
38          **contribution was remanded to WG3 and WG4 for review and**  
39          **comment with comments to be coordinated by WG3.**

- 1           •       Correspondence to TSG-C dated 15 September 2006 regarding E2E QoS  
2           and SDP Parameters (S00-20061030-011) was presented from TSG-X.  
3           **ACTION: This contribution was remanded to WG1 and WG3 as**  
4           **FYI.**
- 5           •       Draft correspondence to NENA over the signature of 3GPP2 SC Chair  
6           regarding Liaison Request to 3GPP2 to Initiate Dialog and Request  
7           Comments on Draft NENA Location Requirements (S00-20061030-012)  
8           was presented from TSG-X. **ACTION: This contribution was**  
9           **remanded to WG1 as FYI.**
- 10          •       Correspondence to CDG ETO dated 15 September 2006 regarding CDG  
11          ETO Recommendations on 3GPP2 Network Evolution (S00-20061030-  
12          013) was presented from TSG-X. **ACTION: This contribution was**  
13          **remanded to WG1 and WG3 for review and action as appropriate.**
- 14          •       TR45: The following contributions were discussed:
- 15               •       Correspondence dated 23 October 2006 regarding TIA TR45 comments on  
16               V&V of S.S0055-A v4.0 and S.S0078-A v4.0 (S00-20061030-019) was  
17               presented from TIA TR45. **ACTION: This contribution was remanded**  
18               **to WG4 for review and action as appropriate.**
- 19               •       Correspondence dated 29 October 2006 regarding Ballot comments for  
20               TSB-151-B (S.P0037) (S00-20061030-026) was presented from TIA  
21               TR45.2. **ACTION: This contribution was remanded to WG2 for**  
22               **review and action as appropriate.**
- 23               •       Correspondence dated 27 October 2006 regarding Ballot comments for  
24               TSB-100-A-2 (S.P0005-B) (S00-20061030-027) was presented from TIA  
25               TR45.2. **ACTION: This contribution was remanded to WG2 for**  
26               **review and action as appropriate.**
- 27          •       ITU: No contributions.
- 28          •       3GPP: No contributions.
- 29          •       3GPP SA5 and T1M1: No contributions.
- 30          •       WiFi Alliance/IEEE 802: No contributions.
- 31          •       OMA (Open Mobile Alliance): The following contribution was discussed:
- 32               •       OMA PoC WG liaison statement to 3GPP TSG SA5 and 3GPP2 TSG-X  
33               dated 6 October 2006 requesting update of PoCv2.0 related 3GPP/3GPP2  
34               charging documents based on the PoC v2.0 charging requirement change  
35               (S00-20061030-020) was presented from OMA PoC. **ACTION: This**  
36               **contribution was remanded to WG3 for review and action as**  
37               **appropriate.**
- 38          •       CDG: No contributions.

- 1           •       OTHER: No contributions.
- 2   8.   NEW/OLD BUSINESS: The following contributions were discussed:
- 3           •       Correspondence to all TSGs and CDG ETO regarding Joint TSG and CDG ETO
- 4           Meeting on 3GPP2 Evolved Network (S00-20061030-022) was presented from
- 5           the Chair. **ACTION: This contribution was remanded to all WGs as FYI.**
- 6           •       Proposed correspondence to NENA regarding NENA Presentation to 3GPP2
- 7           (S00-20061030-031) was presented from the Chair. **DECISION: This**
- 8           **contribution was approved without objection for transmission as modified by**
- 9           **the discussion (S00-20061030-031R2).**
- 10  9.   WG BUSINESS:
- 11           •       WG1 ISSUES: The WG1 Chair provided a brief verbal overview of issues
- 12           discussed including some suggested actions related to the accelerated
- 13           development of the 3GPP2 Evolved Network SRD.
- 14           •       Support Requested from the TSGs for Accelerated Development of the
- 15           3GPP2 Network Evolution SRD (S00-20061030-029) was presented from
- 16           the 3GPP2 Evolved Network SRD Coordinator.
- 17                   **ACTION: This contribution was remanded to WG1, WG2, and WG3**
- 18                   **for review and action as appropriate.**
- 19                   **ACTION: A suggestion was made by ALLTEL to plan an interim**
- 20                   **Plenary in November 2006 just in case actions related to the 3GPP2**
- 21                   **Evolved Network need to be addressed. Action on this suggestion was**
- 22                   **deferred until the closing Plenary.**
- 23                   **DECISION: S.P0121-0 was approved without objection for**
- 24                   **assignment for use with 3GPP2 Evolved Network SRD.**
- 25                   The meeting schedule will be changed to show the Numbering AdHoc
- 26                   meeting only on Tuesday so that WG1 will meet all morning on Thursday.
- 27                   The discussions related to the 3GPP2 Evolved Network SRD will start at
- 28                   8:00 AM.
- 29           •       WG2 ISSUES: No additional contributions or issues were noted.
- 30           •       WG3 (PMT) ISSUES: No additional contributions or issues were noted.
- 31           •       WG4 ISSUES: No additional contributions or issues were noted.
- 32           •       WG5 ISSUES: No additional contributions or issues were noted.
- 33           •       EQUIPMENT NUMBERING ADHOC ISSUES: No additional contributions or
- 34           issues were noted.

35 The Plenary was recessed on 30 October 2006 at 4:20 PM local time.

36

1

2 **CLOSING PLENARY**

3 The Plenary was reconvened on 2 November 2006 at 1:43 PM local time by TSG-S Chair, Nick  
4 Yamasaki (KDDI).

5 Quorum had been established at the opening Plenary and was not challenged at this session.  
6 There were two (2) additional 3GPP2 individual member companies noted in attendance.

7

8 10. **WORKING GROUP REPORTS:**

- 9 • WG1 Report (S00-20061030-101R2) was presented by the WG1 Vice Chair,  
10 Tony Saboorian (Nortel Networks), as FYI.
- 11 • Documents being recommended for publication include the following:  
12 None.
- 13 • Documents being recommended for V&V review include the following:  
14 None.
- 15 • Documents being recommended for TSG review include the following:  
16 • S.P0111-0 Expanded R-UIM Identifier Stage 1
- 17 • Progressed the development of the following documents:  
18 • S.P0108-0 HRPD - cdma2000 1x Interworking SRD  
19 • S.P0111-0 Expanded R-UIM Identifier Stage 1  
20 • S.P0115-0 All-IP Network Emergency Call Support  
21 • S.P0121-0 Network Evolution of 3GPP2 Networks  
22 • Enhanced MMD Security Stage 1 (New Business) together with  
23 WG4

24 **DECISION: S.P0111-0 v1.1 Expanded R-UIM Identifier Stage 1 (S00-**  
25 **20061030-108) was approved without objection for TSG review.**

26 **DECISION: Proposed correspondence to all TSGs regarding announcement**  
27 **of coordinated TSG Review of SC.P4002-0 v3.1, S.P0111-0 v1.1, and**  
28 **SC.P4003-0 v0.5 (S00-20061030-109R2) was approved without objection for**  
29 **transmission with S00-20061030-108 and S00-20061030-107R1 as**  
30 **attachments.**

31 **DECISION: Proposed correspondence to NENA regarding S.R0115 All-IP**  
32 **Emergency Call Support Stage 1 (S00-20061030-110R1) was approved**  
33 **without objection for transmission.**

34 **ACTION: WG1 inputs on the 3GPP2 workplan (S00-20061030-101A) were**  
35 **remanded to WG3 for review and action as appropriate.**

- 1 • WG2 Report (S00-20061030-102) was presented by Scott Marin (Motorola) as  
2 FYI.
- 3 • Progressed the development of S.P0005-B v.2.0 , S.P0037-B v0.3
- 4 No actions requested from Plenary at this time.
- 5 • WG3 PMT Report (S00-20061030-103) was noted by PMT Chair, Eileen Hadwen  
6 (NEC), as FYI. This report was not reviewed in detail.

7 **DECISION: The following WIs were approved without objection for TSG**  
8 **review as distributed by the PMT Manager:**

- 9 • **3GPP2-00172: H.263 Video Codec for 3GPP2 Multimedia Services**  
10 **(S00-20061030-103C)**
- 11 • **3GPP2-00173: Assisted Galileo Support (S00-20061030-103D)**

12 **ACTION: The Chair has an action to question the SC Chair to determine if**  
13 **there are licensing opportunities for non-EU companies regarding WI**  
14 **3GPP2-00173 Assisted Galileo Support.**

15 **DECISION: The following WIs were approved without objection for SC**  
16 **level review as distributed by the PMT Manager as available from the 3GPP2**  
17 **website unless indicated as a contribution number below:**

- 18 • **3GPP2-00164: Version Update for CDMA Card Application Toolkit**  
19 **(CCAT) Specification**
- 20 • **3GPP2-00165: Development of a new specification for the HRPD air**  
21 **interface cdma2000 Circuit Services Notification Application**
- 22 • **3GPP2-00167: Security Enhancements for cdma2000 Networks**

23 **DECISION: Proposed correspondence to all TSGs regarding SC DECISION**  
24 **2006/10-5 Revision Marks and Delta Documents (S00-20061030-111) was**  
25 **approved without objection for transmission with its attachment.**

26 **DECISION: Proposed correspondence to all TSGs regarding SC ACTION**  
27 **2006/10-9 TSG-X Scope Issues (S00-20061030-112R2) was approved without**  
28 **objection for transmission with its attachments.**

29 **ACTION: The update of the 3GPP2 PMT and Workplan Questions/Issues**  
30 **(S00-20061030-103E) was remanded to the 3GPP2 Program Manager, WG2,**  
31 **and WG4.**

- 32 • WG4 Report (S00-20061030-104R1) was presented by WG4 Vice Chair, Zhibi  
33 Wang (Lucent), as FYI.
- 34 • Progressed the development in the following areas:
- 35 • S.S0086-B IMS Domain Security
- 36 • S.S0053, S.S0055, S.S0078 Security Algorithms
- 37 • S.R0103 NFCC
- 38 • S.P0109-0, S.R0112-0, S.P0114-0 GBA

- 1 • HRPD Security
- 2 • Preferred Cryptographic Profiles
- 3 • Enhanced MMD Security Requirements
- 4 • WG4 continues to deliberate a response to the TSG-C correspondence
- 5 regarding air interface security issues. A response will be prepared during
- 6 the December 2006 meeting in Maui.

7 **DECISION: S.P0122 was approved without objection for assignment for**  
8 **Preferred Cryptographic Profiles.**

9 **DECISION: S.P0123 was approved without objection for assignment for**  
10 **Enhanced MMD Security Requirements Stage 1.**

11 **DECISION: Proposed correspondence to TSG-X regarding review of Work**  
12 **Item 3GPP2-00166 GBA Rev. A Enhancements (S00-20061030-113R1) was**  
13 **approved without objection for transmission.**

14 **DECISION: Proposed correspondence to TIA TR45 regarding comments on**  
15 **S.P0055 and S.P0078 (S00-20061030-116) was approved without objection for**  
16 **transmission.**

- 17 • WG5 did not meet.
- 18 • The Equipment Numbering AdHoc Report (S00-20061030-106) was presented by
- 19 AdHoc Chair, Alex Gogic (QUALCOMM), as FYI.

20 **DECISION: SC.P4002-0 v3.1 MEID GHA Assignment Guidelines and**  
21 **Procedures (S00-20061030-107R1) was approved without objection to be**  
22 **released for TSG review pending conversion to clean copy by the Secretary.**

23

24 10. ADDITIONAL CORRESPONDENCES AND LIAISON REPORTS:

- 25 • OP: No contributions.
- 26 • SC: No contributions.
- 27 • 3GPP2 SECRETARIAT: No contributions.
- 28 • TSG-A: No contributions.
- 29 • TSG-C: No contributions.
- 30 • TSG-X: No contributions.
- 31 • TR45: E-mail correspondence dated 2 November 2006 regarding extension of
- 32 ballot schedule for MMD TIA-873 parts 003, 015, 016 and TSB-100-A-2 (S00-
- 33 20061030-114) was presented from TR45.2. **ACTION: This correspondence**  
34 **was remanded to WG2 and WG4 as FYI.**
- 35 • TR45 AHAG: No contributions.
- 36 • ITU: No contributions.

- 1           •       3GPP: No contributions.
- 2           •       3GPP-SA5 and T1M1: No contributions.
- 3           •       WiFi Alliance/IEEE 802: No contributions.
- 4           •       OMA (Open Mobile Alliance): No contributions.
- 5           •       CDG: The following contributions were discussed:
- 6           •       Correspondence dated 1 November 2006 regarding Ultra Mobile Broadband  
7           (UMB) Brand (S00-20061030-115) was presented from the CDG as FYI  
8           for TSG-S.
- 9           •       Correspondence dated 29 October 2006 regarding the CDG ETO Response  
10          to TSG-S Correspondence Regarding "Input for Release Critical Work  
11          Items for Release 5 – Request for Requirements" (S00-20061030-117)  
12          was presented from the CDG ETO. **ACTION: This correspondence  
13          was remanded to WG3 for review and action as appropriate.**
- 14          •       CDG ETO Evolved Network SRD Input (S00-20061030-118) was  
15          presented from the CDG ETO. **ACTION: This correspondence was  
16          remanded to WG1 for review and action as appropriate.**
- 17          •       OTHER: No contributions.
- 18 11.       NEW BUSINESS (continued): No contributions.
- 19 12.       OLD BUSINESS (continued):
- 20          •       The TSG-S Document Status Table (S00-20061030-100) was presented and  
21          reviewed. **DECISION: This contribution (S00-20061030-100) was approved  
22          pending final review by WG Chairs and document Editors by COB Tuesday  
23          7 November 2006.**
- 24          •       The Chair thanked 3GPP2 Coordinator, Katie Hood, for her service and wished  
25          her well in her new endeavors.
- 26          •       **ACTION: Clif Barber (KDDI) was appointed as the WG5 Coordinator to  
27          facilitate WG5 conference calls and the identification of a volunteer for the  
28          position of WG5 Chair.**
- 29          •       The Chair announced the following logistics for the Maui meeting:
- 30          •       A joint meeting will be held on Monday 4 December 2006 to discuss  
31          3GPP2 Network Evolution issues during the 3-5 PM timeframe.
- 32          •       The presentation from NENA will be held on Tuesday 5 December 2006  
33          during the 4-5 PM timeframe.
- 34          •       The 3GPP2 year-end celebration will be held on Tuesday 5 December  
35          2006 starting at 6:00 PM.

- **NOTE: The opening Plenary of TSG-S meeting in Maui will be held on Monday 4 December 2006 starting promptly at 1:00 PM and recessing at 3:00 PM.**

13. ADMINISTRATION AND OTHER BUSINESS:

- The future meeting schedule for TSG-S is noted as follows:

|                     |   |
|---------------------|---|
| 4-7 December 2006   | Grand Wailea Hotel in Maui, Hawaii, USA               |
| 8-11 January 2007   | The Fairmont Hotel Vancouver in Vancouver, BC, Canada |
| 12-15 February 2007 | Seoul, Korea  |

- Although not explicitly reviewed during the meeting, the assignments, other than document remands, that were not completed at this meeting are summarized as follows:

**060327-01** The summary of the 3GPP2 SC and OP meetings for February 2006 in Jeju, Korea (S00-20060327-021) was remanded to all WGs for review and action as appropriate with WG3 taking the lead on SC Action 2006/02-01 and codification of "clean vs. rev marks" issues. This action remains OPEN until the October 2006 closing Plenary.

**061030-01** The Chair requested volunteers to serve in the capacity of WG5 Chair.

**061030-02** The Chair remanded an action to WG5 to make a recommendation for someone to serve as the WG5 Chair by the opening Plenary of the December 2006 meeting.

**061030-03** Clif Barber (KDDI) was appointed as the WG5 Coordinator to facilitate WG5 conference calls and the identification of a volunteer for the position of WG5 Chair.

**061030-04** TSG-S responsibility for coordination of comments related to TSG-X Scope of Work issues (SC ACTION2006/10-09) was remanded to WG1, WG2, and WG3 for review and comment with comments from the TSG-S WGs and the other TSGs to be coordinated by WG3.

**061030-05** The Chair has an action to question the SC Chair to determine if there are licensing opportunities for non-EU companies regarding WI 3GPP2-00173 Assisted Galileo Support.

This meeting was adjourned on 2 November 2006 at approximately 4:57 PM local time.

1 A listing of the contributions for this meeting is itemized below:

| NUMBER                                       | SUBJECT  | SOURCE            | ACTION               |
|--|--|-------------------|----------------------|
| <b>OPENING PLENARY - 3GPP2-S00-20061030-</b> |  |                   |                      |
| 000  | CONTRIBUTION REGISTER  | SECRETARY         | FYI                  |
| 001  | AGENDA   | CHAIR             | APPROVAL             |
| 002  | Meeting Summary - September 2006 - Xi'an, China  | SECRETARY         | APPROVAL             |
| 003  | TSG-C Liaison Report - July 2006   | TSG-C LIAISON     | FYI, A for WG3       |
| 004  | Correspondence dated 15 September 2006 regarding 3GPP Liaison Statement on HTTP Digest in ISIM   | TSG-C             | WG4                  |
| 005  | Correspondence dated 15 September 2006 regarding NENA Liaison Request  | TSG-C             | WG1, WG3             |
| 006  | Correspondence dated 15 September 2006 regarding Air-Interface Application Security  | TSG-C             | WG4                  |
| 007  | Correspondence dated 15 September 2006 regarding Review of Work Item Worksheets  | TSG-C             | WG3                  |
| 008  | Correspondence dated 15 September 2006 regarding TSG-C Updates to 3GPP2 Workplan   | TSG-C             | WG3                  |
| 009  | Correspondence dated 14 September 2006 regarding TSG-A Work Item, Stage 1, LS, and SC Documents for Review   | TSG-A             | WG3, NUMBERING ADHOC |
| 010  | Correspondence dated 15 September 2006 regarding Work Item Review  | TSG-X             | WG3, WG4             |
| 011  | Correspondence to TSG-C dated 15 September 2006 regarding E2E QoS and SDP Parameters   | TSG-X             | WG1, WG3             |
| 012  | Draft correspondence to NENA over the signature of 3GPP2 SC Chair regarding Liaison Request to 3GPP2 to Initiate Dialog and Request Comments on Draft NENA Location Requirements | TSG-X             | WG1                  |
| 013  | Correspondence to CDG ETO dated 15 September 2006 regarding CDG ETO Recommendations on 3GPP2 Network Evolution   | TSG-X             | WG1, WG3             |
| 014  | E-mail correspondences regarding SC level review and approval of S.R0115-0 v1.0 All-IP Network Emergency Call Support Stage 1 Requirements                                       | 3GPP2 SECRETARIAT | WG1                  |
| 015  | E-mail correspondence dated 15 September 2006 regarding V&V review of S.P0078-A v3.1 Common Security Algorithms  | 3GPP2 SECRETARIAT | WG4                  |
| 016  | E-mail correspondence dated 14 September 2006 regarding V&V review of S.P0037-B v0.3 IP Network Architecture Model for cdma2000 Spread Spectrum Systems                          | 3GPP2 SECRETARIAT | WG2                  |
| 017  | E-mail correspondence dated 18 September 2006 regarding termination of V&V review of S.P0076-0 v0.76 "A Report on Feature Alignment between 3GPP2 Specifications"                | 3GPP2 SECRETARIAT | WG3                  |

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| NUMBER                                       | SUBJECT  | SOURCE                            | ACTION              |
|--|--|-----------------------------------|---------------------|
| 018  | E-mail correspondence dated 17 October 2006 regarding seven (7) Work Items Adopted   | 3GPP2 SECRETARIAT                 | WG3                 |
| 019  | Correspondence dated 23 October 2006 regarding TIA TR-45 comments on V&V of S.S0055-A v4.0 and S.S0078-A v4.0  | TIA TR45                          | WG4                 |
| 020  | OMA PoC WG liaison statement to 3GPP TSG SA 5 and 3GPP2 TSG-X dated 6 October 2006 requesting update of PoCv2.0 related 3GPP/3GPP2 charging documents based on the PoCv2.0 charging requirement change | OMA PoC                           | WG3                 |
| 021  | Unofficial summary of 3GPP2 SC/OP meetings in Rio  | SECRETARY                         | ALL WGs             |
| 022  | Correspondence to all TSGs and CDG ETO regarding Joint TSG and CDG ETO Meeting on 3GPP2 Evolved Network  | CHAIR                             | ALL WGs             |
| 023  | V&V comments regarding S.P0005-B v1.1 Network Reference Model for CDMA2000 Spread Spectrum Systems   | 3GPP2 SECRETARIAT                 | WG2                 |
| 024  | V&V comments regarding S.P0055-A v3.2 Enhanced Cryptographic Algorithms  | 3GPP2 SECRETARIAT                 | WG4                 |
| 025  | V&V comments regarding S.P0078-A v3.1 Common Security Algorithms   | 3GPP2 SECRETARIAT                 | WG4                 |
| 026  | Correspondence dated 29 October 2006 regarding Ballot comments for TSB-151-B (S.P0037)   | TR45.2                            | WG2                 |
| 027  | Correspondence dated 27 October 2006 regarding Ballot comments for TSB-100-A-2 (S.P0005-B)   | TR45.2                            | WG2                 |
| 028  | E-mail correspondence dated 29 October 2006 regarding Cleaned vs. Markedup Documents   | SC CHAIR                          | ALL WGs             |
| 029  | Support Requested from the TSGs for Accelerated Development of the 3GPP2 Network Evolution SRD   | NETWORK EVOLUTION SRD COORDINATOR | WG5                 |
| 030  | 3GPP2 Workplan files - October 2006  | PMT COORDINATOR                   | ALL WGs             |
| 031  | Proposed correspondence to NENA regarding NENA Presentation to 3GPP2   | SECRETARY                         | APPROVAL            |
| <b>CLOSING PLENARY - 3GPP2-S00-20061030-</b> |  |                                   |                     |
| 100  | Document Status Table  | WG1                               | APPROVED R2         |
| 101  | WG1 Report   | WG1                               | FYI                 |
| 102  | WG2 Report   | WG2                               | FYI                 |
| 103  | PMT Report   | WG3                               | FYI<br>WIs APPROVED |
| 104  | WG4 Report   | WG4                               | FYI                 |
| 105  | WG5 Report   | WG5                               | DID NOT MEET        |
| 106  | Numbering AdHoc Report   | NUMBERING ADHOC                   | FYI                 |
| 107  | SC.P4002-0 v3.1 MEID GHA Assignment Guidelines and Procedures proposed TSG review text   | NUMBERING ADHOC                   | APPROVAL            |

| NUMBER | SUBJECT  | SOURCE              | ACTION   |
|--------|--|---------------------|----------|
| 108    | S.P0111-0 v1.1 Expanded R-UIM Identifier Stage 1 proposed TSG review text  | WG1                 | APPROVAL |
| 109    | Proposed correspondence to all TSGs regarding announcement of coordinated TSG Review of SC.P4002-0 v3.1, S.P0111-0 v1.1, and SC.P4003-0 v0.5                                       | WG1/NUMBERING ADHOC | APPROVAL |
| 110    | Proposed correspondence to NENA regarding S.R0115 All-IP Emergency Call Support  | WG1                 | APPROVAL |
| 111    | Proposed correspondence to all TSGs regarding SC DECISION 2006/10-5 Revision Marks and Delta Documents   | WG3                 | APPROVAL |
| 112    | Proposed correspondence to all TSGs regarding SC ACTION 2006/10-9 TSG-X Scope Issues   | WG3                 | APPROVAL |
| 113    | Proposed correspondence to TSG-X regarding review of Work Item 3GPP2-00166: GBA Rev. A Enhancements  | WG4                 | APPROVAL |
| 114    | E-mail correspondence dated 2 November 2006 regarding extension of ballot schedule for MMD TIA-873 parts 003, 015, 016 and TSB-100-A-2   | TR45.2              | WG2, WG4 |
| 115    | Correspondence dated 1 November 2006 regarding Ultra Mobile Broadband (UMB) Brand  | CDG                 | FYI      |
| 116    | Proposed correspondence to TIA TR45 regarding comments on S.P0055 and S.P0078  | WG4                 | APPROVAL |
| 117    | Correspondence dated 29 October 2006 regarding CDG ETO Response to TSG-S Correspondence Regarding "Input for Release Critical Work Items for Release 5 – Request for Requirements" | CDG ETO             | WG3      |
| 118    | CDG ETO Evolved Network SRD Input  | CDG ETO             | WG1      |

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| PUBLISHED TSG-S SPECIFICATIONS AND REPORTS |   |              |
|--|---|--------------|
| NUMBER                                     | TITLE   | RESP         |
| S.R0003-0                                  | 3GPP2 System Capability Guide v1.0  | WG1          |
| S.R0003-A                                  | 3GPP2 System Capability Guide v1.0  | WG1          |
| S.R0004-0                                  | 3GPP2 Service Implementation Guide v1.0   | WG1          |
| S.R0005-A                                  | 3GPP2 Network Reference Model (Rev. A) v1.0   | WG2          |
| S.R0005-B                                  | 3GPP2 Network Reference Model (Rev. B) v1.0   | WG2          |
| S.R0006-0                                  | Cellular Features Description (TIA/EIA-664-A Rev A) v1.0  | WG1          |
| S.R0007-0                                  | User Selective Call Forwarding (Stage 1) v2.1   | WG1          |
| S.R0008-0                                  | Answer Hold (Stage 1) v2.0  | WG1          |
| S.R0009-0                                  | User Identity Module (Stage 1) (PN-4582) v1.0   | UIM ID ADHOC |
| S.R0010-0                                  | Preferred Language Enhancement (Stage 1) (PN-4289) v1.0   | WG1          |
| S.R0011-0                                  | Advice of Charge (Stage 1) (PN-4289) v1.0   | WG1          |
| S.R0012-0                                  | Rejection of Undesired Annoying Calls (Stage 1) (PN-4289) v1.0                                  | WG1          |
| S.R0013-0                                  | Global Emergency Call Origination (Stage 1) v1.0  | WG1          |
| S.R0014-0                                  | Tandem Free Operation (Stage 1) v1.0  | WG1          |
| S.R0015-0                                  | ISDN Interworking (Stage 1) v1.0  | WG1          |
| S.R0016-0                                  | Automatic Code Gapping (Stage 1) v2.0   | WG1          |
| S.R0017-0                                  | 3G Wireless Network Management System High Level Requirements (Stage 1) v1.0                    | WG5          |
| S.R0018-0                                  | Prepaid Services (Stage 1) (PN-4287) v1.0   | WG1          |
| S.R0019-0                                  | Location Based System Services (LBSS) Stage 1 v1.0  | WG1          |
| S.R0021-0                                  | Multimedia Streaming Stage 1 v1.0   | WG1          |
| S.R0022-0                                  | Video Conferencing Stage 1 v1.0   | WG1          |
| S.R0023-0                                  | High Speed Data Enhancements for cdma2000 1x Stage 1 - Data Only v2.0                           | WG1          |
| S.R0024-0                                  | WLL Stage 1 v1.0  | WG1          |
| S.R0025-0                                  | WPP Stage 1 v1.0  | WG1          |
| S.R0026-0                                  | High Speed Data Enhancements for cdma2000 1x Stage 1 - Integrated Data and Voice (1xEV-DV) v1.0 | WG1          |
| S.R0027-0                                  | Personal Mobility Stage 1 v1.0  | WG1          |
| S.S0028-0                                  | OAM&P Specification v1.0  | WG5          |
| S.S0028-0                                  | OAM&P Specification v2.0  | WG5          |
| S.S0028-0                                  | OAM&P Specification v3.0  | WG5          |
| S.S0028-A                                  | OAM&P Specification v3.0  | WG5          |
| S.S0028-xxx-B                              | OAM&P Specification v2.0 - parts 000 through 004  | WG5          |
| S.S0028-xxx-C                              | OAM&P Specification v1.0 - parts 000 through 004  | WG5          |
| S.R0029-0                                  | Access control based on call type Stage 1 v1.0  | WG1          |
| S.R0030-0                                  | Broadcast Multicast Services Stage 1 v1.0   | WG1          |
| S.R0030-A                                  | Broadcast Multicast Services Stage 1 v1.0   | WG1          |

| PUBLISHED TSG-S SPECIFICATIONS AND REPORTS |   |              |
|--|---|--------------|
| NUMBER                                     | TITLE   | RESP         |
| S.R0032-0                                  | ESA and ESP Stage 1 v1.0  | WG1          |
| S.R0033-0                                  | Realm Configured Packet Data Session Dormancy Timer Stage 1 v1.0                    | WG1          |
| S.R0034-0                                  | UIM ID Assignment Guidelines v2.0   | UIM          |
| S.R0035-0                                  | RESCINDED: Superseded by S.R0079-0  | WG1          |
| S.R0037-0                                  | 3GPP2 NAM v3.0  | WG2          |
| S.R0038-0                                  | 3GPP2 Evolution Document v2.0   | WG2          |
| S.R0045-0                                  | RESCINDED 21 July 2005  | WG1          |
| S.R0046-0                                  | RESCINDED 21 July 2005  | WG1          |
| S.R0047-0                                  | RESCINDED 21 July 2005  | WG1          |
| S.R0048-0                                  | MEID Stage 1 v1.0   | NUM ADHOC    |
| S.R0048-A                                  | MEID Stage 1 v4.0   | NUM ADHOC    |
| S.R0050-0                                  | RESCINDED 21 July 2005  | WG1          |
| S.R0051-0                                  | EMS Stage 1 v1.0  | WG1          |
| S.R0052-0                                  | 3GPP2 System Release Guide v1.0   | WG3          |
| S.S0053-0                                  | Common Cryptographic Algorithms v1.0  | WG4          |
| S.S0054-0                                  | Interface Specification for Common Cryptographic Algorithms v1.0                    | WG4          |
| S.S0055-0                                  | Enhanced Cryptographic Algorithms v1.0  | WG4          |
| S.S0055-A                                  | Enhanced Cryptographic Algorithms v3.0  | WG4          |
| S.R0057-0                                  | IP Based Service Architecture System Requirements v1.0                              | WG1          |
| S.R0058-0                                  | IP Multimedia Domain System Requirements v1.0                                       | WG1          |
| S.R0059-0                                  | Legacy MS Domain Step-1 v1.0  | WG1          |
| S.R0060-0                                  | Removable User Identity Module (R-UIM) Mobile Equipment (ME) Interface Testing v1.0 | UIM ID ADHOC |
| S.R0061-0                                  | Immediate Messaging v1.0  | WG1          |
| S.R0062-0                                  | Presence Service v1.0   | WG1          |
| S.R0064-0                                  | Multimedia Messaging Stage 1 v1.0   | WG1          |
| S.P0063-0                                  | RESCINDED   |              |
| S.R0064-A                                  | Multimedia Messaging Stage 1 v1.0   | WG1          |
| S.R0065-0                                  | Fast Call Setup Stage 1 v1.0  | WG1          |
| S.R0066-0                                  | IP Based Location Services Stage 1 v1.0   | WG1          |
| S.R0067-0                                  | Enhanced Call Recovery Stage 1 v1.0   | WG1          |
| S.R0068-0                                  | LLA_ROHC Stage 1 v1.0   | WG1          |
| S.R0069-0                                  | Header Stripping and Generation Stage 1 v1.0  | WG1          |
| S.R0070-0                                  | 3GPP2 Process Guidelines v1.0   | WG1          |
| S.R0070-A                                  | PUBLISHED AS SC.R1003-0   | WG3          |
| S.R0071-0                                  | Legacy System Packet Data Surveillance Requirements v1.0                            | WG4          |
| S.R0072-0                                  | IP System Packet Data Surveillance Requirements v1.0                                | WG4          |
| S.R0073-0                                  | Internet Over-the-Air Handset Configuration Management v1.0                         | WG1          |

| PUBLISHED TSG-S SPECIFICATIONS AND REPORTS |   |              |
|--|---|--------------|
| NUMBER                                     | TITLE   | RESP         |
| S.R0074-0                                  | Multimedia File Format Stage 1 v1.0   | WG1          |
| S.R0075-0                                  | Accounting and Auditing Stage 1 v1.0  | WG1          |
| S.R0077-0                                  | 3GPP2 Vision Document - PUBLISHED AS SC.R5001-0   | VISION ADHOC |
| S.S0078-0                                  | Common Security Algorithms v1.0   | WG4          |
| S.S0078-A                                  | Common Security Algorithms v3.0   | WG4          |
| S.R0079-0                                  | End-to-End QoS Stage 1 v1.0   | WG1          |
| S.R0079-A                                  | End-to-End QoS v1.0   | WG1          |
| S.R0080-0                                  | Wide Band Speech Codec for CDMA 2000 Systems Stage 1 v1.0   | WG1          |
| S.R0082-0                                  | Enhanced Packet Data Air Interface Security Stage 1 v1.0  | WG4          |
| S.R0083-0                                  | Broadcast-Multicast Service Security Framework v1.0   | WG4          |
| S.S0083-0                                  | Broadcast-Multicast Service Security Framework v1.0   | WG4          |
| S.R0084-0                                  | Packet PrePaid Services Stage 1 v1.0  | WG1          |
| S.P0085-0                                  | 3GPP2 Equipment Numbering JEM Report and Conclusions - WITHDRAWN TO BE INCLUDED AS AN ANNEX IN S.R0048 MEID STAGE 1 |              |
| S.S0086-0                                  | 3GPP2 IMS Security Framework v1.0   | WG4          |
| S.S0086-A                                  | 3GPP2 IMS Security Framework v1.0   | WG4          |
| S.S0086-B                                  | 3GPP2 IMS Security Framework v1.0   | WG4          |
| S.R0087-0                                  | WLAN - cdma2000 Interworking v1.0   | WG1          |
| S.R0087-A                                  | WLAN - cdma2000 Interworking v1.0   | WG1          |
| S.R0088-0                                  | PUBLISHED AS SC.R4001-0   | NUM ADHOC    |
| S.R0089-0                                  | PUBLISHED AS SC.R4002-0   | NUM ADHOC    |
| S.R0090-0                                  | Network Initiated Data Sessions (NIDS) v1.0   | WG1          |
| S.P0091-0                                  | WITHDRAWN   |              |
| S.R0092-0                                  | LMSD Step 2 Stage 1 v1.0  | WG1          |
| S.S0093-0                                  | cdma2000 Network Performance Measurement Types v2.0   | WG5          |
| S.R0094-0                                  | Rm Interface Enhancements v1.0  | WG1          |
| S.R0095-0                                  | Support for ISIM on UICC v1.0   | WG1          |
| S.R0096-0                                  | TrFO v1.0   | WG1          |
| S.R0097-0                                  | PUBLISHED AS SC.R1001-0   | WG3          |
| S.P0098-0                                  | RESCINDED - 2/17/05 - Functionality included in X.P0028   |              |
| S.R0099-0                                  | PUBLISHED AS SC.R1002-0   | WG3          |
| S.R0100-0                                  | System Requirements for PoC v1.0  | WG1          |
| S.R0101-0                                  | IOTA DM Stage 1 v1.0  | WG1          |
| S.R0102-0                                  | PUBLISHED AS SC.P2001-0   | WG3          |
| S.R0103-0                                  | Network Firewall Configuration and Control Stage 1 v1.0   | WG1          |
| S.R0104-0                                  | HAT Authentication System Requirements v1.0   | WG1          |
| S.R0105-0                                  | Hotlining System Requirements v1.0  | WG1          |
| S.R0106-0                                  | Packet Switched Video Telephony (PSVT) Stage 1 v1.0   | WG1          |
| S.P0107-0                                  | RESCINDED - 4/20/05 - Unsponsored WI  |              |

| PUBLISHED TSG-S SPECIFICATIONS AND REPORTS |   |      |
|--|---|------|
| NUMBER                                     | TITLE   | RESP |
| S.R0108-0                                  | HRPD-cdma2000 1x Interworking System Requirements v1.0                | WG1  |
| S.S0109-0                                  | General Bootstrapping Architecture (GBA) Stage 2/3 specification v1.0 | WG4  |
| S.S0110-0                                  | Location Services Security Framework Report v1.0                      | WG4  |
| S.R0111-0                                  | Expanded R-UIM Identifier Stage 1 v1.0                                | WG1  |
| S.R0112-0                                  | General Bootstrapping Architecture (GBA) Stage 1 Requirements v1.0    | WG1  |
| S.R0113-0                                  | Enhanced cdma2000 SRD v1.0  | WG1  |
| S.S0114-0                                  | Security Mechanisms Using GBA v1.0                                    | WG4  |
| S.R0115-0                                  | All-IP Emergency Call Support   | WG1  |
| S.R0117-0                                  | Multimedia Priority Services Stage 1 v1.0                             | WG1  |
| S.R0118-0                                  | Telephone Number Mapping (ENUM) Stage1 v1.0                           | WG1  |

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| TSG-S PROJECTS IN DEVELOPMENT |  |      |
|-------------------------------|--|------|
| NUMBER                        | TITLE  | RESP |
| S.P0005-B                     | Network Reference Model                            | WG2  |
| S.P0006-A                     | Wireless Feature Descriptions                      | WG1  |
| S.P0028-xxx-C                 | OAM&P  | WG5  |
| S.P0037-A                     | 3GPP2 NAM  | WG2  |
| S.P0037-B                     | 3GPP2 NAM  | WG2  |
| S.P0076-0                     | Protocol Alignment Reference                       | WG3  |
| S.P0093-A                     | Definition of Performance Measurement Typs         | WG5  |
| S.P0106-0                     | PSTV Stage 1 (version update)                      | WG1  |
| S.P0108-0                     | HRPD-cdma2000 1x Interworking SRD (version update) | WG1  |
| S.P0116-0                     | PPP-Free Operation Stage 1                         | WG1  |
| S.P0119-0                     | Proximity Mobile Gateway Stage 1                   | WG1  |
| S.P0120-0                     | MMD Policy Enhancements SRD                        | WG1  |
| S.P0121-0                     | 3GPP2 Evolved Network SRD                          | WG1  |
| S.P0122-0                     | Preferred Cryptographic Profiles                   | WG4  |
| S.P0123-0                     | Enhanced MMD Security Requirements Stage 1         | WG4  |

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**3GPP2 QUORUM ROLL CALL**  
**TSG-S (Systems and Services Aspects)**  
 Northbrook, IL, USA  
 2-Nov-06

| INDIVIDUAL MEMBER COMPANY   | Attendance | Attendance | Consec Mtgs Missed | Voting Status  | Quorum Status  |
|-----------------------------|------------|------------|--------------------|----------------|----------------|
|                             | 10/30/2006 | 11/2/2006  | (incl this Mtg)    | as of next Mtg | as of next Mtg |
| ALCATEL SHANGHIA BELL       |            |            | 1                  | 0              | 0              |
| ALLTEL                      | 1          |            | 0                  | 1              | 1              |
| BELL CANADA                 |            |            | 3                  | 0              | 0              |
| CHINA UNICOM                | 1          |            | 0                  | 1              | 0              |
| DOCOMO US LABORATORIES      |            |            | 3                  | 0              | 0              |
| ERICSSON                    |            |            | 1                  | 0              | 0              |
| FUJITSU                     | 1          |            | 0                  | 1              | 1              |
| GEMALTO, AXALTO             |            |            | 1                  | 1              | 1              |
| HEWLETT PACKARD             |            |            | 3                  | 0              | 0              |
| HITACHI                     |            |            | 1                  | 0              | 0              |
| HUAWEI                      | 1          |            | 0                  | 1              | 1              |
| KDDI                        | 1          |            | 0                  | 1              | 1              |
| KYOCERA                     | 1          |            | 0                  | 1              | 1              |
| LG ELECTRONICS              | 1          |            | 0                  | 1              | 1              |
| LG TELECOM                  | 1          |            | 0                  | 1              | 1              |
| LUCENT                      | 1          |            | 0                  | 1              | 1              |
| MOTOROLA                    | 1          |            | 0                  | 1              | 1              |
| NEC                         | 1          |            | 0                  | 1              | 1              |
| NOKIA                       |            |            | 3                  | 1              | 1              |
| NORTEL NETWORKS             |            | 1          | 0                  | 1              | 1              |
| QUALCOMM                    | 1          |            | 0                  | 1              | 1              |
| RESEARCH IN MOTION          |            |            | 3                  | 0              | 0              |
| RITT                        |            |            | 0                  | 0              | 0              |
| SAMSUNG                     |            |            | 1                  | 1              | 1              |
| SPRINT/NEXTEL               | 1          |            | 0                  | 1              | 1              |
| TELCORDIA                   |            |            | 3                  | 1              | 1              |
| VERIZON WIRELESS            |            | 1          | 0                  | 0              | 1              |
| <b>TOTALS</b>               | <b>12</b>  | <b>2</b>   |                    | <b>21</b>      | <b>21</b>      |
| <b>QUORUM CALCULATION</b>   | <b>57%</b> | <b>10%</b> |                    |                |                |
| <b>ADDITIONS</b>            |            |            |                    |                |                |
| SK TELECOM                  | 1          |            |                    |                | 0              |
|                             |            |            |                    |                | 0              |
|                             |            |            |                    |                | 0              |
|                             |            |            |                    |                | 0              |
|                             |            |            |                    |                | 0              |
| <b>OBSERVERS AND GUESTS</b> |            |            |                    |                |                |
| ARIB                        | 1          |            |                    |                |                |
| PBJ CONSULTING              | 1          |            |                    |                |                |
| CDG                         | 1          |            |                    |                |                |

**QUORUM STATUS NOTES:**

- HIGHLIGHTED ZERO = Must attend 2 consecutive mtgs to be added to quorum list
- NON-HIGHLIGHTED ZERO = Will be added to quorum list next mtg if they attend
- P = Letter of Proxy in effect