

1 **Title:**

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2 **APPROVED SUMMARY OF TSG-S MEETING**  
3 for the period of 16-18 April 2001 in Philadelphia, PA

4 **Source:**

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6 SECRETARY

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14 **Abstract:**

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15 This document provides the summary of the 3GPP2 TSG-S meetings held at the Rittenhouse Hotel in  
16 Philadelphia, PA during the period of 16-18 April 2001.

17 **Recommendation:**

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18 For review and approval.

19

20 **Notice:**

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26 partner SDOs.

1 During the period of 16-18 April 2001, a meeting of 3GPP2 TSG-S was held at the Rittenhouse Hotel  
2 in Philadelphia, PA. This report is intended to summarize those discussions.

3 **OPENING PLENARY**

4 1. CALL TO ORDER AND OPENING REMARKS: The meeting was called to order on  
5 16 April 2001 at 1:30 PM local time by TSG-S Chair, Rich Robinson (Sprint PCS).

6 The Chair welcomed everyone to the 24th meeting of TSG-S and each attendee briefly  
7 introduced himself to the group.

8 2. ATTENDANCE REGISTRATION AND ROLL CALL: A roll call of TSG-S active  
9 companies indicated 11 companies in attendance out of 17 active companies (71%  
10 participation). Thus, meeting quorum was achieved. Sign-in of individual attendees was  
11 accomplished via electronic sign-in on a file on the server.

12 3. DISTRIBUTION AND NUMBERING OF CONTRIBUTIONS: Contributions were  
13 documented in S00-20010416-000. All contributions were distributed as soft copy only.

14 4. ADOPTION OF AGENDA: The proposed agenda (S00-20010416-001R2) was reviewed  
15 and approved without objection as modified by the discussion (S00-20010416-001R3).

16 5. ASSIGNMENT OF CONTRIBUTIONS TO AGENDA ITEMS: The contributions were  
17 numbered and assigned to agenda items in the approved agenda.

18 6. REVIEW AND APPROVAL OF PREVIOUS MEETING SUMMARY: The meeting  
19 summary for March 2001 in Maui, HI (S00-20010416-002) was presented and approved  
20 without objection as submitted.

21 7. CORRESPONDENCE AND LIAISON REPORTS

22 • TSG-A:

23 • Correspondence dated 3 April 2001 to TSG-A from TSG-C on how to tune  
24 IS-2000 system and 1xEV-DO system alternately (S00-20010416-018) was  
25 presented. This correspondence was remanded to the PMT for review and  
26 action as appropriate.

27 • TSG-C: The TSG-C Liaison Report (S00-20010416-003) was presented as FYI.  
28 Additional contributions from the TSG-S Liaison including the following:

29 • The list of Release B features and functions which were developed in TSG-C  
30 (S00-20010416-004) was presented as FYI. This contribution was remanded  
31 to the PMT for consideration in the development of the SCG.

32 • The TSG-C workplan v2 (S00-20010416-005) was presented. This  
33 contribution was remanded to the PMT for review and action as appropriate.

- 1           •       Correspondence dated 30 March 2001 regarding the TSG-C comments on the  
2           Stage 1 template (S00-20010416-006) was presented. This contribution was  
3           remanded to WG1 for review and comment as appropriate.
- 4           •       TSG-N:
- 5           •       Correspondence dated 12 April 2001 regarding 3GPP2 adoption of  
6           TIA/EIA-124 Wireless Radio Telecommunication Intersystem Non-Signaling  
7           Data Communication DMH (S00-20010416-019) was presented from  
8           TSG-N. This correspondence indicated that the specification would be  
9           adopted as N.S0026. This correspondence was noted as FYI.
- 10          •       Correspondence dated 12 April 2001 regarding TR45.2 comments on the  
11          Stage 1 template (S00-20010416-020) was presented. This correspondence  
12          was remanded to WG1 for review and action as appropriate.
- 13          •       Correspondence dated 12 April 2001 regarding 3GPP2 response to ITU-T  
14          (S00-20010416-022) was presented from TSG-N. This contribution was  
15          remanded to the PMT for review and action as appropriate.
- 16          •       Correspondence dated 12 April 2001 regarding TSG-N comments on the  
17          System Capability Guide (S00-20010416-023) was presented. This  
18          correspondence was remanded to the PMT for review and action as  
19          appropriate.
- 20          •       Correspondence dated 15 February 2001 from TR45.2 regarding comments  
21          on the ESA/ESP Stage 1 description (S00-20010416-024) was presented.  
22          This contribution was remanded to WG1 for review and action as appropriate.
- 23          •       TSG-P:
- 24          •       Correspondence dated 11 April 2001 from TSG-P regarding a new TSG-P  
25          work item on packet data security (S00-20010416-014) was presented. This  
26          contribution was remanded to WG1 and the PMT for review and action as  
27          appropriate.
- 28          •       Correspondence dated 3 April 2001 to TSG-P from TSG-A regarding fast  
29          handoff schedule and accounting recording questions (S00-20010416-017)  
30          was presented. This correspondence was remanded to the PMT for review  
31          and action as appropriate.
- 32          •       TR45: No report.
- 33          •       TR45 NAG: No report.
- 34          •       TR45 AHAG: Correspondence dated 9 March 2001 from TIA AHAG regarding  
35          comments on the S.R0032 ESA/ESP Stage 1 (S00-20010416-016) was presented.  
36          This correspondence was remanded to WG1 for review and action as appropriate.

- 1           •       3GPP-SA5:
- 2                     •       The 3GPP SA5 and T1M1 Liaison Report (S00-20010416-015) was  
3                             presented. The applicable meeting reports were also included as attachments.  
4                             This correspondence was remanded to WG2 for review and action as  
5                             appropriate.
- 6                     •       Correspondence dated 31 March 2001 from T1M1 regarding coordination of  
7                             3GPP and T1M1/ITU tML/XML Work Efforts (S00-20010416-012) and the  
8                             associated response (S00-20010416-025) was presented. This contribution  
9                             was remanded to WG2 as FYI.
- 10                    •       E-mail correspondence from 3GPP SA5 to ITU-T SG4 regarding progress on  
11                            the use of CORBA in the TMN (S00-20010416-013) was presented. This  
12                            contribution was remanded to WG2 as FYI.
- 13           •       T1M1: Included in the 3GPP SA5 report.
- 14           •       CDG: No report.
- 15           •       MWIF: No report.
- 16           •       WAP FORUM: No report.
- 17           •       ITU: No report.
- 18 8.       NEW BUSINESS
- 19           •       Correspondence dated 4 April 2001 regarding push services (S00- 20010416-021)  
20                            was presented from SK Telecom. This contribution was remanded to WG1 and the  
21                            PMT for review and action as appropriate.
- 22           •       Correspondence dated 24 March 2001 from Korea Telecom Freetel regarding the  
23                            nomination of Juncheol Lee as TSG-S Vice Chair. Hearing no objections, Mr. Lee was  
24                            appointed as the new TSG-S Vice Chair.
- 25 9.       OLD BUSINESS:
- 26           •       WG1 ISSUES: No additional contributions or issues.
- 27           •       W2 ISSUES: The Chair noted WG2 priorities for this week included the following:
- 28                     •       S.P0005-B NRM
- 29                     •       S.P0028 OAM&P
- 30           •       PMT ISSUES: No additional contributions or issues.
- 31           •       ALL IP ADHOC:
- 32                     •       The All IP Status Report for 12 April 2001 (S00-20010416-008) was  
33                            presented as FYI.

- 1 • A list of All IP AdHoc requested actions from TSG-S (S00-20010416-009)  
2 was presented. This contribution was remanded to WG1 for review and action  
3 as appropriate. In addition, there was no objection to the assignment of project  
4 numbers for the All IP effort, including the Stage 1 descriptions currently in  
5 progress. As such, the Secretary was authorized to release these project  
6 numbers.
- 7 • Correspondence dated 12 April 2001 from the All IP AdHoc regarding the  
8 removal of the message flows annex from the NAM (S00-20010416-010) was  
9 presented as FYI.
- 10 • Correspondence dated 12 April 2001 from the All IP AdHoc regarding  
11 changes to the NAM proposed by TSG-N (S00-20010416-011) was  
12 presented as FYI.
- 13 • V&V REPORT: No report.
- 14 • UIM ID ADHOC: No report.
- 15 • A brief summary of the Document Publication JEM was presented verbally by the  
16 Document Publication JEM Chair, Phil Brown (Ericsson), as FYI.

17 The Plenary was recessed at on 16 April 2001 at 3:50 PM local time.

18

## 19 CLOSING PLENARY

20 The Plenary was reconvened at 3:25 PM local time on 18 April 2001 by TSG-S Chair, Rich Robinson  
21 (Sprint PCS). Quorum had been established at the opening Plenary and was not challenged at this  
22 session. Two (2) additional member companies were noted as present.

### 23 10. WORKING GROUP REPORTS

- 24 • WG1 Report (S00-20010416-041) was presented by WG1 Chair, Nick Mazzarella  
25 (Lucent) as FYI.
- 26 • Farrokh Khatibi of QUALCOMM was assigned as editor of S.R0032  
27 ESA/ESP Stage 1
- 28 • S.P0031 MEID Stage 1 is still awaiting comment. If no comments are received  
29 by the next meeting, it will be submitted as baseline text at that time.
- 30 • Developed three (3) separate Stage 1 templates.
- 31 • Reviewed S.P0032 QoS Stage 1. Editor will update and resubmit at the next  
32 meeting.
- 33 • Decided to develop Stage 1 Guidelines in support of All IP Network Stage 1  
34 development activities. Editor is needed.

- 1           •       Work on S.P0034 RC-PDSIT Stage 1 is still in progress. A draft Stage 1 was  
2                   received and expected to be available to TSG review at the close of the  
3                   May 2001 meeting.

4           Proposed correspondence to all TSGs regarding Broadcast/Multicast Stage 1 (S00-  
5           20010416-047) was presented. This contribution was approved without objection for  
6           transmission along with S.P0030 Broadcast/Multicast Stage 1 (S00-20010416-047A)  
7           as an attachment.

8           Proposed correspondence to TSG-S All IP AdHoc regarding the TSG-S comments on  
9           the All IP Project Plan (S00-20010416-048) was presented. This contribution was  
10           approved without objection for transmission along with the report from TSG-S WG1  
11           AdHoc (S00-20010416-048A) as an attachment.

12           The proposed 3GPP2 Stage 1 development process v1.0 (S00-20010416-049) was  
13           presented. This process was adopted without objection as S.R0044 (S00-  
14           20010416-049R1). The Secretary was directed to clean up the format and distribute  
15           to all TSGs as FYI..

16           The description of the new Stage 1 templates (S00-20010416-057) was presented.  
17           This overview was approved without objection as modified by the discussion (S00-  
18           20010416-057R1). The specific Stage 1 templates that were approved by WG1 were  
19           noted as follows:

- 20           •       S.R0045 Stage 1 template - User Features (S00-20010416-050)  
21           •       S.R0046 Stage 1 template - System Requirements (S00-20010416-054)  
22           •       S.R0047 Stage 1 template - Short Form (S00-20010416-055)

23           The Secretary was directed to modify (S00-20010416-050) and (S00-20010416-  
24           054) to note the list of informative references as examples.

25           Proposed correspondence to all TSGs regarding Stage 1 Templates (S00-20010416-  
26           051R1) was presented. This correspondence was approved without objection for  
27           transmission with the Stage 1 template documents and overview indicated above.

28           Proposed correspondence to TSG-C in response to their comments on the Stage 1  
29           template (S00-20010416-052) was presented. This correspondence was approved  
30           without objection for transmission.

31           Correspondence to all TSGs regarding IP push capability (S00-20010416-053) was  
32           presented. This correspondence was approved without objection for transmission as  
33           modified by the discussion (S00-20010416-053R1) with the original correspondence  
34           from SK Telecom (S00-20010416-021) attached.

1 Correspondence to all TSGs regarding Wireless Packet Data Security (S00-  
2 20010416-056) was presented. This correspondence was approved without objection  
3 for transmission along with S00-20010416-014A,S00-20010416-014B, and S00-  
4 20010416-014C as attachments.

5 Correspondence dated 12 April 2001 from TSG-A regarding their comments on the  
6 Stage 1 template (S00-20010416-065) was presented. The TSG-A Chair indicated  
7 that previous discussions on the Stage 1 templates had answered the questions in the  
8 correspondence so that no response was required.

9 • WG2 Report (S00-20010416-042) was presented by the WG2 Chair, Jörg Schmidt  
10 (Motorola) as FYI.

11 • Completed V&V on S.R0005-B NRM and approved for publication.

12 • Completed V&V on S.P0028-0 OAM&P Stage 2/3 text and approved for  
13 publication.

14 S.R0005-B NRM v1.0 (S00-20010416-058) was presented. This document was  
15 approved for publication without objection.

16 S.P0028-0 OAM&P Specification for cdma2000 v1.0 (S00-20010416-059) was  
17 presented. This document was approved for publication without objection as  
18 S.S0028-0 v1.0 as modified (S00-20010416-059R1).

19 • PMT Report (verbal report) was presented by PMT Chair, Bob Plunkett (Quicksilver)  
20 as FYI.

21 The 3GPP2 Workplan for Release C v24 (S00-20010416-063) was presented. This  
22 workplan was approved without objection for submission to the Plenary.

23 The PMT had approved editorial license to the Secretary to prepare a draft version of  
24 S.R0003-A SCG Release B for submission to the SC meeting.

25 • V&V Report: No report.

26 • UIM AdHoc Report (S00-20010416-060) was presented by UIM AdHoc Chair,  
27 Scott Migaldi (Motorola), as FYI.

28 S.P0034 UIM ID Guidelines (S00-20010416-061) was presented. These guidelines  
29 were approved without objection for submission to the Plenary as S.R0034 v1.0.

30 • All IP AdHoc Status Report: No additional report.

31 11. OLD BUSINESS (continued): No additional discussion.

32 12. NEW BUSINESS (continued):

33 • A presentation entitled “3GPP2 and the All IP Wireless Network” that was made by  
34 the TSG-S All IP AdHoc Vice Chair at Networld+Interop 2001 (S00-20010416-046)  
35 was noted as FYI.

- 1 • The 3GPP2 response to ITU-T SSG regarding their query on Question 3 (S00-  
2 20010416-066) was presented. This response was approved without objection for  
3 submission to the Plenary for their direction as modified by the discussion (S00-  
4 20010416-066R1).
- 5 • The MWIF Liaison Report (S00-20010416-062) was noted as FYI.
- 6 • John Kay (Motorola) has tentatively volunteered to be the TIA AHAG Liaison for the  
7 TSG. John provided a brief verbal report on their meeting in Atlanta last week. The  
8 key focus of the AHAG at this time is the “rogue shell” problem. Their next meeting is  
9 24-25 May 2001 in Phoenix, AZ and it will be a joint AHAG/3GPP SA3 meeting.
- 10 • A TSG-N Liaison Report (S00-20010416-064) was presented as FYI.

11 13. ASSIGNMENTS: The primary action item was to the Secretary to disseminate the approved  
12 documents and to prepare TSG-S submissions for the SC meeting.

13 14. ADMINISTRATION AND OTHER BUSINESS: None.

14 15. REVIEW OF FUTURE MEETINGS:

|                 |  |
|-----------------|--|
| 8-10 May 2001   | Palm Springs Marquis Hotel in Palm Springs, CA |
| 12-14 June 2001 | Metropolitan Hotel in Vancouver, BC            |
| 23-25 July 2001 | Seoul, Korea                                   |

15  
16 16. ADJOURNMENT: This meeting was adjourned on 18 April 2001 at 5:50 PM local time.



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

| NUMBER                                       | SUBJECT   | SOURCE                |
|--|---|-----------------------|
| <b>OPENING PLENARY - 3GPP2-S00-20010416-</b> |   |                       |
| 000  | CONTRIBUTION REGISTER   | SECRETARY             |
| 001  | AGENDA  | CHAIR                 |
| 002  | Meeting Summary - January 2001 - Maui, HI   | SECRETARY             |
| 003  | TSG-C Liaison - March 2001  | TSG-C LIAISON         |
| 004  | TSG-C Release B functions   | TSG-C LIAISON         |
| 005  | TSG-C year 2000 workplan  | TSG-C LIAISON         |
| 006  | Correspondence dated 30 March 2001 regarding the Stage 1 template                                       | TSG-C                 |
| 007  | Correspondence dated 24 March 2001 regarding nomination of Juncheol Lee as TSG-S Vice Chair             | KOREA TELECOM FREETEL |
| 008  | TSG-S All IP Status Report - 12 April 2001  | TSG-S ALL IP ADHOC    |
| 009  | TSG-S All IP AdHoc requests for action - 12 April 2001  | TSG-S ALL IP ADHOC    |
| 010  | Correspondence dated 12 April 2001 regarding the removal of the Message Flows Annex from the All IP NAM | TSG-S ALL IP ADHOC    |
| 011  | Correspondence dated 12 April 2001 regarding changes to the All IP NAM proposed by TSG-N                | TSG-S ALL IP ADHOC    |
| 012  | Correspondence to 3GPP TSG-SA WG5 regarding coordination of 3GPP and T1M1/ITU tML/XML work efforts      | T1M1                  |
| 013  | E-mail correspondence to ITU-T SG4 regarding progress on the use of CORBA in the TMN                    | ETSI                  |
| 014  | Correspondence dated 11 April 2001 regarding a new TSG-P work item for packet data security             | TSG-P                 |
| 015  | 3GPP SA5 and T1M1 Liaison Report  | 3GPP SA5/T1M1 LIAISON |
| 016  | Correspondence dated 9 March 2001 regarding ESA and ESP comments  | TR45 AHAG             |
| 017  | Correspondence dated 3 April 2001 regarding fast handoff  | TSG-P                 |
| 018  | Correspondence dated 3 April 2001 regarding IS-2000 and 1xEV-DO interaction                             | TSG-A                 |
| 019  | Correspondence dated 12 April 2001 regarding adoption of TIA/EIA-124                                    | TSG-N                 |
| 020  | Correspondence dated 12 April 2001 regarding Stage 1 template   | TIA TR45.2            |
| 021  | Correspondence dated 4 April 2001 regarding push services   | TSG-A                 |
| 022  | Correspondence dated 12 April 2001 regarding ITU-T SSG response   | TSG-N                 |
| 023  | Correspondence dated 12 April 2001 regarding SCG  | TSG-N                 |
| 024  | Correspondence dated 15 February 2001 regarding ESA and ESP comments                                    | TIA TR45.2            |
| 025  | Response to T1M1 liaison on the coordination of 3GPP and T1M1/ITU tML/XML Work Efforts                  | 3GPP SA5              |

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| <b>WG1: FEATURE/SERVICE REQUIREMENTS - 3GPP2-S10-20010416-</b> |   |                              |
|--|---|------------------------------|
| 000  | CONTRIBUTION REGISTER   | SECRETARY                    |
| 001  | AGENDA  | CHAIR                        |
| 002  | Meeting summary - March 2001  | CHAIR                        |
| 003  | IP Broadcast/Multicast Stage 1 v0.4   | SPRINT PCS                   |
| 004  | RC-PDSIT Stage 1 v0.1   | MOTOROLA                     |
| 005  | QoS Stage 1   | EDITOR                       |
| 006  | All IP Project Plan AdHoc Report  | ALL IP PROJECT PLAN<br>ADHOC |
| 007  | Stage 1 Template v0.4   | EDITOR                       |
| 008  | Proposed correspondence to all TSGs regarding Stage 1 template              | TANTIVY                      |
| 009  | Proposed correspondence to TSG-C in response to Stage 1 template concerns   | TANTIVY                      |
| 010  | Proposed Stage 1 System Requirements Template                               | QUICKSILVER                  |
| 011  | Proposed correspondence to all TSGs regarding push services                 | SPRINT PCS                   |
| 012  | Proposed correspondence to TSG-S All IP AdHoc regarding All IP Project Plan | CHAIR                        |
| 013  | WG1 meeting actions   | CHAIR                        |
| 014  | Proposed correspondence to all TSGs regarding IP Broadcast/Multicast        | CHAIR                        |
| 015  | Proposed correspondence to all TSGs regarding Packet Data Security          | CHAIR                        |
| 016  | Proposed Stage 1 template short form  | QUICKSILVER                  |
| <b>WG2: OAM&amp;P AND NRM - 3GPP2-S20-20010416-</b>            |   |                              |
| 001  | Agenda  | CHAIR                        |
| 002  | Summary of Meeting on March 12, 2001  | CHAIR                        |
| 003  | 3GPP2 S.R0005-B-4 NRM   | TSG-S PLENARY                |
| 004  | S.P0028 OAM&P 3GPP/3GPP2 Delta Document                                     | TSG-S PLENARY                |
| <b>PMT: PROJECT MANAGEMENT TEAM - 3GPP2-S30-20010416-</b>      |   |                              |
| 001  | Agenda  | CHAIR                        |
| 002  | Meeting summary - Maui. HI  | CHAIR                        |
| 003  | TSG-C Release B Features/Functions  | TSG-C                        |
| 004  | TSG-C 2001 Workplan V2  | TSG-C                        |
| 005  | TSG-P Corr. New Work Item   | TSG-P                        |
| 006  | TSG-P Corr. on Fast Handoff   | TSG-P                        |
| 007  | TSG-A Corr. on 1XEV-DO  | TSG-A                        |
| 008  | SK Telecom Corr. on Push Services   | SK TELECOM                   |
| 009  | TSG-N Corr. on ITU-T submission   | TSG-N                        |
| 010  | TSG-N Corr. re. SCG   | TSG-N                        |
| 011  | 3GPP2 Workplan V24 Draft  | CHAIR                        |

|  |  |                                       |
|--|--|---------------------------------------|
| 012  | S.P0003-A SCG v0.0.3   | EDITOR                                |
| 013  | TSG-N 01.04 Work Plan  | TSG-N                                 |
| 014  | TSG-A 2001 Work Timeline   | TSG-A                                 |
| 015  | TSG-A Corr. on SCG   | TSG-A                                 |
| <b>CLOSING PLENARY - 3GPP2-S00-20010416-</b> |  |                                       |
| 041  | WG1 Report   | WG1                                   |
| 042  | WG2 Report   | WG2                                   |
| 043  | PMT Report (verbal report)   | PMT                                   |
| 044  | V&V Report (no report)   | V&V CHAIR                             |
| 045  | All IP AdHoc Report (not used - see All IP Status Report)                            | ALL IP ADHOC                          |
| 046  | 3GPP2 All IP presentation to Networld + Interop 2001                                 | ALL IP ADHOC VICE CHAIR               |
| 047  | Proposed correspondence to all TSGs regarding S.P0030 IP Broadcast/Multicast Stage 1 | WG1                                   |
| 048  | Proposed correspondence to TSG-S All IP AdHoc regarding All IP Project Plan          | WG1                                   |
| 049  | Stage 1 process  | LUCENT, MOTOROLA, AND NORTEL NETWORKS |
| 050  | Stage 1 Template v0.4  | WG1                                   |
| 051  | Proposed correspondence to all TSGs regarding Stage 1 template                       | WG1                                   |
| 052  | Proposed correspondence to TSG-C in response to Stage 1 template comments            | WG1                                   |
| 053  | Proposed correspondence to all TSGs regarding push services                          | WG1                                   |
| 054  | Stage 1 Template System Requirements   | WG1                                   |
| 055  | Stage 1 Template - Short Form  | WG1                                   |
| 056  | Proposed correspondence to all TSGs regarding Wireless Data Packet Security          | WG1                                   |
| 057  | Stage 1 template versions  | SECRETARY                             |
| 058  | S.R0005-B NRM v1.0   | WG2                                   |
| 059  | S.P0028-0 OAM&P Stage 2/3 for cdma20000  | WG2                                   |
| 060  | UIM ID AdHoc meeting summary - 18 April 2001   | UIM ID ADHOC                          |
| 061  | S.P0034 UIM ID Guidelines  | UIM ID ADHOC                          |
| 062  | MWIF Liaison Report  | MWIF LIAISON                          |
| 063  | 3GPP2 Workplan for Release C v24   | PMT                                   |
| 064  | TSG-N Liaison Report   | TSG-N                                 |
| 065  | TSG-A comments on Stage 1 template   | TSG-A                                 |
| 066  | 3GPP2 response to ITU-T SSG on Question 3  | SECRETARY                             |

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**STATUS OF APPROVED TSG-S SPECIFICATIONS AND REPORTS**

| <b>NUMBER</b> | <b>TITLE</b>   |
|---------------|--|
| S.R0003       | 3GPP2 System Capability Guide  |
| S.R0004       | 3GPP2 Service Implementation Guide   |
| S.R0005-A     | 3GPP2 Network Reference Model (Rev. A)   |
| S.R0005-B     | 3GPP2 Network Reference Model (Rev. B)   |
| S.R0006       | Cellular Features Description (TIA/EIA-664-A Rev A)  |
| S.R0007       | User Selective Call Forwarding (Stage 1) v2.1  |
| S.R0008       | Answer Hold (Stage 1) v2.0   |
| S.R0009       | User Identity Module (Stage 1) (PN-4582)   |
| S.R0010       | Preferred Language Enhancement (Stage 1) (PN-4289) (Note 1)                                |
| S.R0011       | Advice of Charge (Stage 1) (PN-4289)   |
| S.R0012       | Rejection of Undesired Annoying Calls (Stage 1) (PN-4289)                                  |
| S.R0013       | Global Emergency Call Origination (Stage 1) (Note 2)                                       |
| S.R0014       | Tandem Free Operation (Stage 1)  |
| S.R0015       | ISDN Interworking (Stage 1)  |
| S.R0016       | Automatic Code Gapping (Stage 1) v2.0  |
| S.R0017       | 3G Wireless Network Management System High Level Requirements (Stage 1) (Note 4)           |
| S.R0018       | Prepaid Services (Stage 1) (PN-4287) (Note 4)  |
| S.R0019       | Location Based System Services (LBSS) Stage 1  |
| S.R0021       | Video Streaming Stage 1  |
| S.R0022       | Video Conferencing Stage 1   |
| S.R0023       | High Speed Data Enhancements for cdma2000 1x Stage 1 - Data Only v2.0                      |
| S.R0024       | WLL Stage 1  |
| S.R0025       | WPP Stage 1  |
| S.R0026       | High Speed Data Enhancements for cdma2000 1x Stage 1 - Integrated Data and Voice (1xEV-DV) |
| S.R0027       | Personal Mobility Stage 1  |
| S.S0028       | OAM&P Specification  |
| S.R0029       | Access control based on call type Stage 1  |
| S.R0032       | ESA and ESP Stage 1  |
| S.R0034       | UIM ID Assignment Guidelines   |
| S.R0044       | 3GPP2 Stage 1 Development Process  |
| S.R0045       | Stage 1 template- User Features  |
| S.R0046       | Stage 1 template- System Requirements  |
| S.R0047       | Stage 1 template- Short Form   |

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**STATUS OF TSG-S PROJECTS IN PROCESS**

| <b>NUMBER</b> | <b>TITLE</b>  | <b>STATUS</b>  |
|---------------|---|----------------|
| S.P0020       | Location Information Restriction (LIR) Stage 1                | In development |
| S.P0030       | Multicast/Broadcast Stage 1                                   | In development |
| S.P0031       | MEID Stage 1  | In development |
| S.P0033       | Realm Configured Packet Data Session Inactivity Timer Stage 1 | In development |
| S.P0035       | QoS Stage 1   | In development |
| S.P0036       | All IP System Capability Guide                                | In development |
| S.P0037       | All IP NAM  | In development |
| S.P0038       | All IP Evolution Guide  | In development |
| S.P0039       | All IP Message Flows  | In development |
| S.P0040       | Public and Private User Identities                            | In development |
| S.P0041       | UIM Support in All IP Networks                                | In development |
| S.P0042       | IP Multimedia Domain Registration for Multimedia Services     | In development |
| S.P0043       | IP Multimedia Domain Authorization                            | In development |

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| 3GPP2 QUORUM ROLL CALL   |                          |                          |                            |                               |
|--|--------------------------|--------------------------|----------------------------|-------------------------------|
| TSG-S (Systems and Services Aspects)   |                          |                          |                            |                               |
| April 18, 2001   |                          |                          |                            |                               |
| INDIVIDUAL MEMBER COMPANY  | Attendance<br>04/16/2001 | Attendance<br>04/18/2001 | Consecutive<br>Mtgs Missed | Quorum Status<br>at Mtg Start |
| ALCATEL  |                          |                          | 2                          | 0                             |
| ALLTEL   | 1                        |                          | 0                          | 0                             |
| BELL MOBILITY  |                          |                          | 2                          | 0                             |
| COMVERSE   | 1                        |                          | 1                          | 0                             |
| DOCOMO US LABORATORIES   | 1                        |                          | 0                          | 1                             |
| ERICSSON   | 1                        |                          | 0                          | 1                             |
| FUJITSU  | 1                        |                          | 0                          | 1                             |
| GEMPLUS  | 1                        |                          | 1                          | 0                             |
| HITACHI  | 1                        |                          | 0                          | 1                             |
| HYUNDAI  |                          |                          | 2                          | 0                             |
| KDDI   | 1                        |                          | 0                          | 1                             |
| KOREA TELECOM FREETEL  | 1                        |                          | 3                          | 0                             |
| LG ELECTRONICS   |                          | 1                        | 1                          | 1                             |
| LG TELECOM   |                          |                          | 3                          | 0                             |
| LINKAIR COMMUNICATIONS   |                          |                          | 1                          | 1                             |
| LUCENT   | 1                        |                          | 0                          | 1                             |
| MOTOROLA   | 1                        |                          | 0                          | 1                             |
| NEC  | 1                        |                          | 0                          | 1                             |
| NOKIA  | 1                        |                          | 0                          | 1                             |
| NORTEL NETWORKS  |                          |                          | 1                          | 1                             |
| OKI NETWORK TECHNOLOGIES   |                          |                          | 0                          | 1                             |
| PHILLIPS   |                          |                          | 3                          | 0                             |
| QUALCOMM   | 1                        |                          | 0                          | 1                             |
| QUICKSILVER TECHNOLOGY   | 1                        |                          | 0                          | 1                             |
| QWEST  |                          |                          | 3                          | 0                             |
| SAMSUNG  |                          | 1                        | 1                          | 1                             |
| SCHLUMBERGER   | 1                        |                          | 0                          | 0                             |
| SIRF TECHNOLOGY  |                          |                          | 3                          | 0                             |
| SK TELECOM   |                          |                          | 2                          | 0                             |
| SONY   |                          |                          | 3                          | 0                             |
| SPRINT PCS   | 1                        |                          | 0                          | 1                             |
| TANTIVY COMMUNICATIONS   | 1                        |                          | 0                          | 0                             |
| TELCORDIA  |                          |                          | 1                          | 0                             |
| VERIZON WIRELESS   |                          |                          | 3                          | 0                             |
| <b>TOTALS</b>  | <b>12</b>                | <b>2</b>                 |                            | <b>17</b>                     |
| <b>QUORUM CALCULATION</b>  | <b>71%</b>               | <b>12%</b>               |                            |                               |
| <b>ADDITIONS</b>   |                          |                          |                            |                               |
|  |                          |                          |                            | 0                             |
|  |                          |                          |                            | 0                             |
|  |                          |                          |                            | 0                             |
|  |                          |                          |                            | 0                             |
| <b>OBSERVERS AND GUESTS</b>  |                          |                          |                            |                               |
| ON MOBILE SYSTEMS  | 1                        |                          |                            |                               |
| TTA  | 1                        |                          |                            | 0                             |
|  |                          |                          |                            |                               |
|  |                          |                          |                            |                               |
|  |                          |                          |                            |                               |
|  |                          |                          |                            |                               |
| <b>QUORUM STATUS NOTES:</b>  |                          |                          |                            |                               |
| - 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  |                          |                          |                            |                               |