

1 **Title:**

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2 APPROVED SUMMARY OF TSG-S MEETING  
3 for the period of 30 October - 1 November 2000 in Kyoto, Japan

4 **Source:**

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5 Clifton J. Barber

6 SECRETARY

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9 **Abstract:**

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10 This document provides the summary of the 3GPP2 TSG-S meetings held at the Kyoto International  
11 Conference Center in Kyoto, Japan during the period of 30 October - 1 November 2000.

12 **Recommendation:**

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13 For review and approval.

15 **Notice:**

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21 partner SDOs.

1 During the period of 30 October - 1 November 2000, a meeting of 3GPP2 TSG-S was held at the  
2 Kyoto International Conference Center in Kyoto, Japan. This report is intended to summarize those  
3 discussions.

#### 4 OPENING PLENARY

5 1. CALL TO ORDER AND OPENING REMARKS: The meeting was called to order on  
6 30 October 2000 at 9:15 AM local time by TSG-S Chair, Hideo Okinaka (KDDI).

7 The Chair welcomed everyone to Kyoto, Japan, an area which represents the 8-19th century  
8 history of Japan.

9 2. ATTENDANCE REGISTRATION AND ROLL CALL: A roll call of TSG-S active  
10 companies indicated 14 companies in attendance out of 18 active companies (78%  
11 participation). Thus, meeting quorum was achieved.

12 3. DISTRIBUTION AND NUMBERING OF CONTRIBUTIONS: Contributions were  
13 documented in S00-20001030-000R2. All contributions were distributed as soft copy only.

14 4. ADOPTION OF AGENDA: The proposed agenda (S00-20001030-001R1) was reviewed  
15 and approved without objection as modified by the discussion (S00-20001030-001R2).

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

18 6. REVIEW AND APPROVAL OF PREVIOUS MEETING SUMMARY: The meeting  
19 summary for September 2000 in Seoul, Korea (S00-20001030-002) was presented and  
20 approved without objection as submitted.

21 7. REVIEW AND APPROVAL OF INTERIM PLENARY CONFERENCE CALL  
22 SUMMARY: The meeting summary for 17 October 2000 Interim Plenary conference call  
23 (S00-20001030-003) was presented and approved without objection as submitted.

24 8. CORRESPONDENCE: None.

25 9. LIAISON REPORTS

26 • TSG-A: The draft summary of the TSG-A meeting which was held last week in  
27 Vancouver, BC (S00-20001030-016) was presented by TSG-A Chair, Frederic  
28 Leroudier (LinkAir) as FYI.

29 • IOS v4.1 is in V&V and there are still two (2) open items to be resolved. This  
30 document is targeted for publication at the December 2000 meeting.

31 • Completion of Abis approval by the SDOs is expected by year end.

32 • A joint meeting with TSG-C will be setup for December 2000 regarding  
33 1xEV-DO.

34 • All QoS items in TSG-A have been placed on hold pending setup of the QoS  
35 JEM by TSG-S.

- 1 • No major changes to previously submitted TSG-A workplan.
- 2 • TSG-C: The TSG-S Liaison Report (S00-20001030-009) was presented by TSG-C  
3 Liaison, Clif Barber (Oki Network Technologies)
- 4 • Published cdma2000 Release A Addendum documents and 1xEV-DO  
5 including resolution of TIA ballot comments.
- 6 • Published R-UIM Addendum, Position Determination Services Addendum, and  
7 BS Minimum Performance specifications for SDO ballot.
- 8 • OTASP and MS Minimum Performance specifications were approved as  
9 baseline text and will be approved for publication for SDO ballot at an interim  
10 Plenary conference call on 27 November 2000.
- 11 • Developed four (4) new requirements for 1xEV-DO based on input from  
12 KDDI based in part on Japanese regulatory issues. The KDDI contribution to  
13 TSG-C (S00-20001030-010) were noted as FYI. The requirements  
14 developed in TSG-C and associated background were detailed  
15 (S00-20001030-011). This contribution was remanded to WG1 for review  
16 and action as appropriate.
- 17 • One (1) new candidate proposal for 1xEV-DV was presented by Samsung  
18 called SAPHIRE. The 1xEV-DV candidate list now includes four (4)  
19 proposals.
- 20 • Reviewed the 3GPP2 Workplan draft v21. TSG-C feedback on that workplan  
21 (S00-20001030-012) was presented. This contribution was remanded to the  
22 PMT for consideration and action as appropriate.
- 23 • As a result of the TSG-C decision to include support for enhanced dropped call  
24 performance, TSG-C has delayed their Release B schedule as follows:
- 25 • 5 January 2001 Baseline
- 26 • 17 January 2001 Publication
- 27 • TSG-N: A verbal report on TSG-N status was presented by TSG-N Vice Chair, Dr.  
28 Yoshi Ohashi (KDDI):
- 29 • Held joint sessions with TR45.2 on the following:
- 30 • ACG
- 31 • IP-based transport of 41 messages
- 32 • Roamer database verification
- 33 • All IP AdHoc report was reviewed.
- 34 • Reviewed TSG-N year 2001 workplan items:
- 35 • 1xEv-DV support
- 36 • Support for cdma2000 Release B

- 1 • QoS
- 2 • All IP
- 3 • Discussed rogue shell issues associated with R-UIM. No conclusion to date.
- 4 Discussion will continue with AHAG.
- 5 • Automatic call gapping was completed last month.
- 6 • Network support for UIM, several months were needed to resolve TIA ballot
- 7 comments but now all ballot comments have been resolved. This document
- 8 (N.S0003) will be issued in November 2000.
- 9 • Cathy Fitzpatrick (Lucent) has volunteered to act as liaison between TSG-N
- 10 and TSG-S. Her offer to fulfill this role was enthusiastically accepted by TSG-S
- 11 without objection.
- 12 • TSG-P: No report.
- 13 • All IP AdHoc: All AdHoc held its final meeting by conference call on 25 October 2000
- 14 where it approved all output documents including the following:
- 15 • Final All IP AdHoc Report
- 16 • All IP NAM
- 17 • All IP Requirements
- 18 • All IP Workplan
- 19 • Open Items from All IP AdHoc
- 20 • TR45: No report. A new TR45 Chair will be elected at the next TR45 meeting in
- 21 Atlanta at the end of November 2000.
- 22 • TR45 ISD ADHOC: No report.
- 23 • TR45.7: No report
- 24 • TR45 NAG: No Report.
- 25 • TR45 AHAG: A verbal report was presented by AHAG Liaison, Scott Migaldi
- 26 (Motorola), as FYI.
- 27 • NIST has selected Rijindael as the AES algorithm.
- 28 • AHAG has selected without objection this AES algorithm for recommendation
- 29 to TR45 as the 3G algorithm for TIA.
- 30 • Regarding ESA, AHAG has been reviewing the “rogue shell” problem and
- 31 believes that a compromise solution is feasible.
- 32 • AHAG and 3GPP have agreed to established liaison relations.
- 33 • CCA is now publicly available on the web.

- 1 The group agreed that this information should be noted in the TSG-S report to the SC  
2 with a recommendation that TSG-C take the lead in reviewing this algorithm for use in  
3 3GPP2.
- 4 • ITU: A verbal report indicated that ITU-T has approved a new study group  
5 (SSG-IMT) to review IMT-2000 and beyond. John Visser (Nortel Networks) has  
6 been appointed the Chair of this study group.
- 7 ITU-R WP 8F met in Geneva last week. Final report was not available from that  
8 meeting but indications are that they did not approve any revision to any RSPC until at  
9 least March 2001 in WP 8F.
- 10 • WAP FORUM: No report.
  - 11 • 3GPP-SA5: A verbal report was presented by Jöerg Schmidt (Motorola). They are  
12 still working on Release 99 which is scheduled for completion at the end of  
13 December 2000.
  - 14 • TIM1: No report.
  - 15 • MWIF: No report.
  - 16 • 3GIP: No report.
  - 17 • Regarding the TSG Coordination discussion on the e-mail exploder, the Coordination  
18 AdHoc Chair, Bob Plunkett (Quicksilver), indicating that he would note to the SC that  
19 he believes there has been insufficient discussions on the topics for any final  
20 recommendation.
- 21 10. NEW BUSINESS
- 22 • The proposal from the TIA Delegation to the OP Finance Committee for the addition of  
23 a 3GPP2 staff position of a Document Coordinator (S00-20001030-005) was  
24 presented by the Secretary as FYI. During the discussion, it was noted that OP  
25 Finance Committee had approved this recommendation.
- 26 11. OLD BUSINESS:
- 27 • WG1 ISSUES
    - 28 • Correspondence from TSG-N dated 19 October 2000 regarding their  
29 completion of two (2) documents - N.S0023 Automatic Code Gapping and  
30 N.S0024 Network Support for MDN-based message centers  
31 (S00-20001030-021) was presented. This contribution was remanded to  
32 WG1 for review and action as appropriate.
    - 33 • A contribution on TSG-C actions on 1xEV-DO requirements  
34 (S00-20001030-011) was presented and detailed by the TSG-C Liaison. This  
35 contribution was remanded to WG1 for review and action as appropriate.

- 1 • Correspondence to the Chairs of all other TSGs from TSG-A dated  
2 28 October 2000 requesting information on 1xEV-DO (S00-20001030-015)  
3 was presented by TSG-A Chair, Frederic Leroudier (LinkAir). The contributor  
4 noted that this document was prepared in the TSG-A meeting at the same time  
5 that the TSG-C resolution of TIA ballot comments on the 1xEV-DO  
6 specification were being completed. This correspondence was remanded to  
7 WG1 for response by the closing Plenary.
- 8 • A report of the TSG-S WG1 AdHoc teleconference for IP Broadcast/Multicast  
9 Stage 1 requirements (S00-20001030-019) was presented by the WG1 Chair,  
10 Nick Mazzerella (Lucent). This report was remanded to WG1 for action as  
11 appropriate by the closing Plenary.
- 12 • A contribution entitled “Proposed Modifications to System Support for Low  
13 Data Rate Devices Stage 1” (S00-20001030-017) was presented. This report  
14 was remanded to WG1 for action as appropriate by the closing Plenary.
- 15 • A report of the TSG-S WG1 AdHoc teleconference for CCPD and AKA  
16 Stage 1 requirements (S00-20001030-020) was presented. This report was  
17 remanded to WG1 for action as appropriate by the closing Plenary.
- 18 • A presentation on Mobile Equipment Identifiers for cdma2000  
19 (S00-20001030-004) was presented by Motorola. The contributor requested  
20 that this position be considered for preparation of a TSG-S position statement  
21 to be presented at the upcoming SC meeting. This contribution was remanded  
22 to WG1 for consideration and action as appropriate by closing Plenary.
- 23 • W2 ISSUES: No contributions.
- 24 • PMT ISSUES
- 25 • TSG-C feedback to the draft v21 of the 3GPP2 Workplan (S00-20001030-  
26 012) was presented by the TSG-C Liaison. This contribution was remanded to  
27 the PMT for review and action as appropriate.
- 28 • Input from TSG-A on a new work item for IP-based RAN Architecture Study  
29 (S00-20001030-022) was presented by the TSG-A Chair. This contribution  
30 was remanded to the PMT for review and action as appropriate.
- 31 • V&V ISSUES
- 32 • An overview of V&V process (S00-20001030-022) was presented by the  
33 Secretary on behalf of the V&V Chair. This contribution was remanded to all  
34 Plenary participants for review at the closing Plenary. Since this contribution  
35 was in response with a contribution from Lucent (S00-20000919-008), the  
36 participants were also advised to use the Lucent contribution as an indication of  
37 the context in which the V&V Chair’s contribution was developed.

- 1 • TSG-S ROLE FOR ALL IP NETWORK DEVELOPMENT
- 2 • The correspondence to the All IP AdHoc which was prepared by the Secretary
- 3 at the direction of the closing Plenary in Seoul (S00-20001030-006) was
- 4 presented as FYI. This contribution (with respect to the second bullet item
- 5 regarding consideration of the AdHoc correspondence at this meeting) as well
- 6 as the All IP workplan correspondence (S00-20000919-047) were remanded
- 7 to the PMT for development of a TSG-S position for presentation at the
- 8 upcoming SC meeting by closing Plenary.
- 9 • STAGE 1 PROCESS
- 10 • A contribution on Proposed Improvements to TSG-S Stage 1 Process
- 11 Management (S00-20001030-007) from Motorola and Lucent was presented.
- 12 This contribution was remanded to PMT for action as appropriate.
- 13 • A contribution entitled "Proposed reflection of balloted specification"
- 14 (S00-20001030-008) was presented by KDDI. This contribution was
- 15 remanded to PMT for consideration and action as appropriate.
- 16 • A contribution on Proposed Clarifications to the TSG-S Stage 1 Process
- 17 (S00-20001030-018) was presented by Nortel Networks. This document
- 18 expressed support by Nortel Networks for the contribution from Motorola and
- 19 Lucent (S00-20001030-007) and recommended text to further strengthen that
- 20 proposal. This contribution was remanded to the PMT for action as
- 21 appropriate.
- 22 12. RECESS: The Plenary was recessed on 30 October 2000 at approximately 1:05 PM local
- 23 time.

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## 25 CLOSING PLENARY

- 26 13. RECONVENE: The Plenary was reconvened at 2:35 PM local time on 1 November 2000 by
- 27 TSG-S Chair, Hideo Okinaka (KDDI). Quorum had been established at the opening Plenary
- 28 and was not challenged at this session.
- 29 14. WORKING GROUP REPORTS
- 30 • WG1 Report (S00-20001030-041) was presented by WG1 Chair, Nick Mazzarella
- 31 (Lucent) as FYI.
- 32 • A 1xEV-DO AdHoc has been formed to address the questions raised by
- 33 TSG-A. Rich Robinson (Sprint PCS) has been named as the AdHoc Chair. A
- 34 conference call will be set up for this AdHoc during the week of 20 November
- 35 2000 with the intent of provided responses to the TSG-A questions for review
- 36 by the Plenary at the December 2000 meeting in Kauai.

- 1 • S.P0031 Low Data Rate Devices Stage 1 (S00-20001030-045) was  
2 presented. This contribution was approved for release to TSG-C for comment  
3 by the next meeting. This action was remanded to the TSG-C Liaison with  
4 authorization to submit the this document to TSG-C WG2 in advance of the  
5 TSG-C Plenary meeting in an attempt to solicit an approved TSG-C response  
6 at the TSG-C opening Plenary in Kauai.
- 7 • S.P0032 ESA and ESP Stage 1 (S00-20001030-046) was presented. This  
8 contribution was approved as baseline text pending final editorial modifications  
9 by the Editor and remanded to V&V.
- 10 • Proposed correspondence to TSG-A regarding the TSG-S status on response  
11 to their questions on 1xEV-DO (S00-20001030-047) was presented. This  
12 correspondence was approved for transmission as modified editorially by the  
13 discussion (S00-20001030-047R1).
- 14 • Proposed correspondence to the 3GPP2 SC Chair regarding TSG-S plans to  
15 adopt a new work item on Mobile Station ID expansion and harmonization  
16 (S00-20001030-048) was presented. This contribution was approved for  
17 transmission as modified editorially by the discussion (S00-20001030-048R1).
- 18 • S.P0027 Personal Mobility v0.0.4 (S00-20001030-051) was presented. This  
19 document was approved without as baseline text and remanded to V&V.
- 20 • WG2 Report (S00-20001030-042) was presented by the WG2 Chair, Masaaki  
21 Yoshimura (Hitachi) as FYI.
- 22 • Reviewed a presentation by Motorola to the TeleManagement World on 3GPP  
23 activities related to OAM&P as FYI.
- 24 • Continued work on the 3GPP OAM&P delta document. That document is  
25 targeted for baseline in December 2000.
- 26 • TSG-A has indicated that there is interest in developing an OAM&P for the  
27 3GPP2 RAN.
- 28 • PMT Report (verbal) was presented by PMT Chair, Bob Plunkett (Quicksilver) as  
29 FYI.
- 30 • QoS JEM was set for 8 December 2000 in Kauai, HI.
- 31 • 3GPP2 Workplan v22 (S00-20001030-049) was presented. This contribution  
32 was approved without objection as the updated Release B workplan and it will  
33 be submitted at the upcoming SC meeting. The 3GPP2 Workplan Line Items  
34 v1.3 (S00-20001030-050) were also presented as FYI.
- 35 • All IP RAN work item from TSG-A was held open pending review of All IP  
36 AdHoc output at upcoming SC meeting.



- 1                   •       Reviewed All IP AdHoc issues and decided to endorse that group's proposed  
2                   workplan v1.0. The following language was recommended for incorporation  
3                   into the TSG-S Chair's Report to the SC: "TSG-S has reviewed the outputs of  
4                   the All IP Ad Hoc and recognizes and supports the recommendations of their  
5                   final report. Accordingly, given SC endorsement of the report, TSG-S will  
6                   establish an Ad Hoc group at TSG-S plenary level to support the program  
7                   management, architectural, and technical coordination requirements of the All IP  
8                   program. TSG-S will manage the activities, responsibilities, meeting schedule  
9                   and future structure of this group in accordance with existing 3GPP2 working  
10                  procedures."
- 11                  •       Contributions on Stage 1 development and control process were reviewed.  
12                  There was general consensus on endorsement of the concepts but final text is  
13                  still in process.
- 14                  •       A contribution from KDDI on how to handle Stage 1 contributions from outside  
15                  sources (S00-20001030-008) was reviewed and endorsed by the PMT.
- 16                  •       V&V Report: No report.
- 17 15.    OLD BUSINESS (continued):
- 18                  •       An overview of the process used by the TSG-C Plenary to resolve issues associated  
19                  with the Location Services Addendum (S00-20001030-013) was presented as FYI.
- 20                  •       A contribution entitled "V&V Process and Overview" (S00-20001030-014) was  
21                  presented by the Secretary on behalf of the V&V Chair. This contribution was held  
22                  open for further consideration and comment at the next meeting.
- 23 16.    NEW BUSINESS (continued): None.
- 24 17.    ASSIGNMENTS: Not separately discussed.
- 25 18.    FUTURE MEETINGS:
- 26                  •       5-7 December 2000                Hyatt Regency in Kauai, HI
- 27                  •       29-31 January 2001                TBD (collocated with the OP/SC meetings)
- 28                  •       13-15 March 2001                 Maui, HI
- 29 19.    ADMINISTRATION AND OTHER BUSINESS: None.
- 30 20.    ADJOURNMENT: This meeting was adjourned on 1 November 2000 at 3:00 PM local time.

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

NUMBER	SUBJECT	SOURCE
<b>OPENING PLENARY - 3GPP2-S00-20001030-</b>		
000	CONTRIBUTION REGISTER	SECRETARY
001	AGENDA	CHAIR
002	Meeting Summary - September 2000 - Seoul, Korea	SECRETARY
003	Meeting Summary - 17 October 2000 Interim Plenary Conference Call	SECRETARY
004	MEID for 3GPP2	MOTOROLA
005	Proposal for additional 3GPP2 staff person - Document Coordinator	TIA DELEGATION
006	TSG-S response to the All IP AdHoc dated 27 September 2000	CHAIR
007	Proposed Improvements to TSG-S Stage 1 Process Management	LUCENT/MOTOROLA
008	Proposed reflection of balloted specification	KDDI
009	TSG-C Liaison Report - 001027	TSG-C LIAISON
010	KDDI issues for 1xEV-DO issues	TSG-C
011	1xEV-DO requirements issues	TSG-C
012	TSG-C feedback on 3GPP2 Workplan DRAFT v21	TSG-C
013	Location Services Addendum issues resolution process	TSG-C
014	V&V process and overview	V&V CHAIR
015	Correspondence to all TSG Chairs dated 28 October 2000 requesting information on 1xEV-DO	TSG-A
016	TSG-A meeting summary - October 2000	TSG-A
017	Proposed Modifications to System Support for Low Data Rate Devices Stage 1	NORTEL NETWORKS
018	Proposed Clarifications to the TSG-S Stage 1 Process	NORTEL NETWORKS
019	IP Broadcast/Multicast 001010 Teleconference Report	WG1
020	CCPD and AKA 001011 Teleconference Report	WG1
021	Two (2) new specifications - N.S0023 and N.S0024	TSG-N
022	IP RAN work item	TSG-A
<b>WG1: FEATURE/SERVICE REQUIREMENTS - 3GPP2-S10-20001030-</b>		
001	AGENDA	CHAIR
002	ACG stage1	KDDI
003	AH stage 1	KDDI
004	USCF Stage1	KDDI
005	S.R0023_1xEV-DO_Stage_1_v1.1	EDITOR
006	Low_Data_Rate_Devices_Stage_1	EDITOR
007	ESA_and_ESP_Stage1	LUCENT
008	Draft Stage 1 Personal Mobility rev 0.0.3 and 0.0.4	EDITOR

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<b>WG2: OAM&amp;P AND NRM - 3GPP2-S20-20001030-</b>		
001	Agenda	CHAIR
002	Summary of Meeting on September 24	CHAIR
003	OAM&P Stage 2/3 for cdma2000 (3GPP Delta Specification)	MOTOROLA
004	TMW Report	MOTOROLA
005	T1M1 Interim Meeting Report	MOTOROLA
<b>PMT: PROJECT MANAGEMENT TEAM - 3GPP2-S30-20001030-</b>		
001	Agenda	CHAIR
002	Draft Meeting Minutes from San Francisco	CHAIR
003	1xEV-DV Status Report 000825 (C00-20000822-052)	TSG-C
004	Release B Workplan (C00-20000822-053)	TSG-C
005	cdma2000 reference list RSPC Revision (C00-20000822-054)	TSG-C
006	3GPP2 Workplan V20	CHAIR
007	3GPP2 Work Item Descriptions V1.3	CHAIR
<b>CLOSING PLENARY - 3GPP2-S00-20001030-</b>		
041	WG1 Report	WG1
042	WG2 Report	WG2
043	PMT Report (verbal)	PMT
044	V&V Report (no report)	V&V CHAIR
045	S.P0031 LDRD Stage 1 v0.2	WG1
046	S.P0032 ESA and ESP Stage 1	WG1
047	Proposed correspondence to TSG-A regarding 1EV-DO questions	WG1
048	Proposed correspondence to 3GPP2 regarding 3G MEID	WG1
049	3GPP2 Workplan v22	PMT
050	3GPP2 Workplan Line Item descriptions	PMT
051	S.P0027 Personal Mobility v0.0.4	WG1

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

NUMBER	TITLE
S.R0003	3GPP2 System Capability Guide
S.R0004	3GPP2 Service Implementation Guide
S.R0005-A	3GPP2 Network Reference Model (Rev. A)
S.R0006	Cellular Features Description (TIA/EIA-664-A Rev A)
S.R0007	User Selective Call Forwarding (Stage 1) (PN-4551)
S.R0008	Answer Hold (Stage 1) (PN-4550)
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) (Note 3)
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
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.R0029	Access control based on call type Stage 1

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

NUMBER	TITLE	STATUS
S.P0020	Location Information Restriction (LIR) Stage 1	In development
S.P0027	Personal Mobility Stage 1	V&V
S.P0028	OAM&P Stage 2/3 for cdma2000 (3GPP Delta Specification)	In development
S.P0030	IP Multicast/Broadcast Stage 1	In development
S.P0031	Low Data Rate Devices (LDRD) Stage 1	In development
S.P0032	ESA and ESP Stage 1	V&V

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<b>3GPP2 QUORUM ROLL CALL</b>				
<b>TSG-S (Systems and Services Aspects)</b>				
November 2, 2000				
<b>COMPANY</b>	<b>Attendance 10/30/00</b>	<b>Attendance 11/01/00</b>	<b>Consecutive Mtgs Missed</b>	<b>Quorum Status at Mtg Start</b>
ALCATELL			0	0
BELL MOBILITY			0	0
KDDI	1		0	1
DOCOMO US LABORATORIES	1		0	1
ERICSSON	1		3	0
FUJITSU	1		0	1
HITACHI	1		0	1
HYUNDAI			3	0
INTEL			2	1
LG TELECOM			3	0
LG ELECTRONICS	1		0	1
LINKAIR COMMUNICATIONS	1		0	1
LUCENT	1		0	1
MOTOROLA	1		0	1
NEC		1	1	1
NOKIA	1		0	1
NORTEL NETWORKS	1		0	1
OKI NETWORK TECHNOLOGIES	1		0	1
PHILLIPS			3	0
QUALCOMM	1		0	1
QUICKSILVER TECHNOLOGY	1		1	1
QWEST			0	0
SAMSUNG		1	2	1
SONY			1	1
SIRF TECHNOLOGY			0	0
SPRINT PCS	1		0	1
TELCORDIA			3	0
VERIZON WIRELESS	1		0	0
<b>TOTALS</b>	<b>14</b>	<b>2</b>		<b>18</b>
<b>QUORUM CALCULATION</b>	<b>78%</b>	<b>11%</b>		
<b>ADDITIONS</b>				
KOREA TELECOM	1			0
				0
				0
				0
<b>OBSERVERS AND GUESTS</b>				
				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				