

1 **Title:**

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2 APPROVED TSG-S ALL IP ADHOC MEETING SUMMARY - 16-18 JANUARY 2001

3 **Source:**

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4 Clif Barber

5 SECRETARY

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8 **Abstract:**

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9 This document summarizes the meetings of the 3GPP2 TSG-S All IP AdHoc which were held in San  
10 Diego, CA during the period of 16-18 January 2001.

11 **Recommendation:**

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12 For review and approval.

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14 **Notice:**

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20 partner SDOs.

1 During the period of 16-18 January 2001, a meeting of the 3GPP2 TSG-S All IP AdHoc was held at  
2 the Radisson Hotel in San Diego, CA. This report is intended to summarize those discussions.

3 1. CALL TO ORDER AND OPENING REMARKS: The meeting was called to order at 8:30  
4 AM local time by All IP AdHoc Chair, Mark Lipford (Sprint PCS).

5 2. ATTENDANCE REGISTRATION: Attendance was taken using an electronic sign-in sheet  
6 that was loaded onto the server.

7 3. DISTRIBUTION AND NUMBERING OF CONTRIBUTIONS: All contributions were  
8 loaded onto the server in an electronic format. Contribution numbers were listed in the  
9 Document Register (S00-ALLIP-20010116-000).

10 4. ADOPTION OF AGENDA: The proposed agenda (S00-ALLIP-20010116-001R1) was  
11 presented and approved in concept without objection.

12 5. ASSIGNMENT OF CONTRIBUTIONS TO AGENDA ITEMS: Contribution numbers were  
13 assigned to agenda items and the resulting agenda (S00-ALLIP-20010116-001R2) was  
14 approved without objection.

15 6. CORRESPONDENCE:

16 • Correspondence dated 12 January 2001 from MWIF (S00-ALLIP-20010116-010)  
17 was presented. This correspondence included a set of requirements which were felt to  
18 be helpful to this AdHoc. Detailed discussions of those requirements (S00-ALLIP-  
19 20010116-016) were deferred to the New Business section of the agenda. AdHoc  
20 Vice Chair, Mike Dolan (Lucent), also agreed to act as liaison to MWIF on behalf of  
21 this AdHoc.

22 • The proposed agenda for the TSG-S QoS JEM being held on Kansas City during the  
23 period of 24-25 January 2001 (S00-ALLIP-20010116-011) was presented as FYI.

24 7. NEW BUSINESS:

25 • TERMS OF REFERENCE: The AdHoc Terms of Reference which were presented to  
26 TSG-S in December 2000 (S00-ALLIP-20010116-007) were presented and  
27 reviewed in detail as FYI. Since this document included responsibility for Stage 1  
28 documents which was explicitly excluded by approval discussions, the Secretary agreed  
29 to secure the final approved document with the wording which was actually approved  
30 by the SC. This approved version (S00-ALLIP-20010116-007R1) was subsequently  
31 provided on the server.

32 The approved versions of the source documents of the outputs of the original All IP  
33 AdHoc (i.e., Requirements, NAM, and workplan) were also provided on the server as  
34 FYI.

- 1           •       METHOD OF OPERATION:
- 2                   •       A proposed statement of direction for the continued All IP effort within 3GPP2
- 3                           (S00-ALLIP-20010116-003) was presented by Ericsson. This proposal
- 4                           included recommendations to complete the following:
- 5                                   •       Clarification of the two (2) domains
- 6                                   •       Definition and phasing requirements of new services
- 7                                   •       Definition of mobile station types
- 8                                   •       Relationship with on-going activities including end-to-end QoS,
- 9   1xEV-DO and 1xEV-DV, and IPv6.
- 10                           There was general consensus regarding the intent of this contribution. However,
- 11                           the group also agreed that the detailed definition of working procedures of this
- 12                           AdHoc was the subject of on-going discussion and will be developed in
- 13                           conjunction with the other TSGs. The group did note that, based on the Terms
- 14                           of Reference, the project management responsibilities do mandate that this
- 15                           AdHoc at least be aware of all activities being addressed as a part of the All IP
- 16                           project even if it is restricted to a single TSG.
- 17           •       A contribution on directions forward for the TSG-S All IP AdHoc Group
- 18                           (S00-ALLIP-20010116-009) was presented by the Vice Chair. This
- 19                           contribution recommended specific processes for review of requirements,
- 20                           architecture, and project management activities. This contribution also
- 21                           proposed two (2) possible format alternatives for future technical discussions.
- 22                           There was also general consensus on the recommendations presented in this
- 23                           contribution. However, discussion and action on the individual
- 24                           recommendations was deferred until the appropriate agenda items. The
- 25                           following list of positions to be filled was defined:
- 26                                   •       Requirements Editor
- 27                                   •       Architecture Editor
- 28                                   •       Project Plan Editor
- 29                                   •       Release Document Editor
- 30                                   •       FAQ Editor
- 31                                   •       Liaisons:
- 32   •       TSG-A
- 33   •       TSG-C
- 34   •       TSG-N
- 35   •       TSG-P
- 36           •       The All IP Workplan v1.0, as approved by the 3GPP2 SC, (S00-ALLIP-
- 37                           20010116-009) was reviewed by the Chair as FYI.

- 1           •       MEETING SCHEDULE: The currently planned meeting schedule was referenced as a  
2 part of the agenda.
- 3           •       REQUIREMENTS:
- 4           •       The All IP Requirements v1.0 (S00-ALLIP-20010116-009) was presented.  
5 Section 6 “All IP Network Requirements” was reviewed in detail. The  
6 following requirements were identified, some if which Stage 1 descriptions may  
7 be required:

FEATURE NAME	REQUIREMENTS DOCUMENT REFERENCE
<b>GENERAL</b>	
UIM support	6.1.1
Transparent legacy features when roaming	6.1.2a
Point of attachment mobility	6.1.2b
Policy based QoS	6.1.3a/b
Multiple QoS levels	6.1.3c
QoS negotiation	6.1.3d
PSTN interworking	6.1.4a
IP interworking	6.1.4b
Network security from external impacts	6.1.4c
Topology invisibility from external entities	6.1.4c
Domain independence	6.1.4d
(ambiguous - must be revisited)	6.1.4e
Protocol revision interoperability	6.1.4f
Functional superiority to legacy system	6.1.4g
Independent user authentication	6.1.5a
Secure user data	6.1.5b
Application level authentication	6.1.5c
Standard OAM&P interfaces	6.1.6
Billing, accounting, and auditing equivalence to legacy systems	6.1.7
Emergency call support	6.1.8
Legal intercept	6.1.8
Number portability	6.1.8
Service characteristic negotiation	6.1.9a
Location Based Services	6.1.9b
Personal Mobility	6.1.9c
Intra-RAN Handoff	6.1.10a
Inter-RAN, Intra-domain Handoff	6.1.10b
Feature execution independence	6.1.11a
Home based personalized services	6.1.11b
Non-personalized services	6.1.11c
Service authorization	6.1.11d
Home call/session monitoring	6.1.11e
Migration from legacy	6.1.12a/b
Core/access evolution independence	6.1.12c
Evolution phase interoperability	6.1.12d
<b>LEGACY DOMAIN</b>	
Legacy handoff	6.2.1
Legacy roaming	6.2.2

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Number portability	6.2.3a
Legacy signaling interoperability	6.2.3b
Legacy authentication	6.2.4
Legacy encryption	6.2.4
Legacy registration	6.2.5
Legacy service mobility	6.2.6
Vocoder placement	6.2.7
<b>IP MULTIMEDIA DOMAIN</b>	
Static and dynamic IP addresses	6.3.1a
Public IP addresses	6.3.1b
Private IP addresses	6.3.1c
NAI mapping	6.3.1d
Private IP networks	6.3.1e
Private IP addresses (see 6.3.1c)	6.3.1f
IPv6 mobiles	6.3.1g
IPv4/IPv6 interoperability	6.3.1h
Multiple concurrent QoS levels	6.3.2
Multiple concurrent services	6.3.3a
Independent call control	6.3.3b
IP based call support	6.3.3c
Inter-technology mobility	6.3.4a
Seamless IP handoff	6.3.4b
Mutual authentication	6.3.5a
Common subscription authentication	6.3.5b/c
Subscription authentication transparency	6.3.5d
Service control independence	6.3.6a
IP Service mobility	6.3.6b
Common IP registration	6.3.7

NOTES: Need to review the requirements of 6.11 to see if they should be IP Multimedia specific instead of general requirements.

- A contribution on issues related to mobile stations, domains, and phasing of functionality (S00-ALLIP-20010116-006) was presented by Ericsson. This contribution augmented Ericsson's statement of direction as previously discussed (S00-ALLIP-20010116-003). It reiterated and augmented the recommendation for clearer definition of the All IP domains and also promoted the development of a clear release plan with prioritization of planned services. There was substantial discussion and general consensus with these recommendations. These concepts were adopted as principles to guide the activities of this adhoc.

As a result of this discussion, the contributor, Henrik Basilier (Ericsson), agreed to generate a contribution specifically related to QoS issues for the consideration of the AdHoc to would be submitted to the QoS JEM next week from this adhoc.

- 1                   •       A proposed new requirement for simultaneous dual-domain registration  
2                   (S00-ALLIP-20010116-004) was presented by Ericsson. The rationale for  
3                   this recommendation was to allow the user to receive standard voice services at  
4                   the same time as multimedia services are being accessed. There was some  
5                   interest expressed in allowing the access to services from both domains  
6                   simultaneously but several concerns were stated regarding the control and fraud  
7                   detection problems associated with simultaneous registration. This  
8                   recommendation was remanded to all adhoc participants, primarily the  
9                   operators, to determine if there is indeed a need for this type of service access.  
10                  This contribution was left open for further consideration.
- 11                  •       Architectural requirements generated by MWIF (S00-ALLIP-20010116-016)  
12                  which were included as an attachment to the previously discussed  
13                  correspondence from MWIF (S00-ALLIP-20010116-010). This contribution  
14                  was remanded to all participants for review. Issues of note related to the  
15                  current list of 3GPP2 All IP requirements should be submitted as contributions  
16                  to the next meeting.
- 17                  •       ARCHITECTURE
- 18                  •       The All IP NAM v1.0 (S00-ALLIP-20010116-015) that was approved by the  
19                  3GPP2 SC was noted as FYI.
- 20                  •       A contribution entitled “Service Network, OSA, Parlay” (S00-ALLIP-  
21                  20010116-005) was presented by Ericsson. This contribution makes the  
22                  following recommendations:
- 23                         •       Adopt the OSA (Open Service Access) concept for use at NAM  
24                         reference point 8 in the Multimedia Domain (i.e., the interface between  
25                         the Service Application(s) and the Network Capability Gateway  
26                         (NCG) as detailed in the Multimedia Control Plane).
- 27                         •       Modify the NAM, with respect to the Legacy Domain, to add the NCG  
28                         between the Service Application and the Service Control Point and  
29                         adopt OSA for the reference point between those entities.
- 30                         •       Add a reference point, also in the Legacy Domain, between the NCG  
31                         and MSC Server.
- 32                  Action on the recommendation was deferred to TSG-N based on their  
33                  ownership of the currently defined reference point in the Multimedia Domain.  
34                  Input from TSG-N was also requested on the proposed reference points in the  
35                  Legacy Domain. However, there was some question on the need for the  
36                  reference point between the NCG and the MSC Server. These issues were  
37                  added to the Open Item List.

1                   Although the contribution did not recommend any closed interfaces, at least two  
2 (2) carriers stressed their opposition to any closed interfaces in the All IP  
3 NAM. There was no objection to this position. As such, the group agreed  
4 without objection that all NAM defined reference points will be open interfaces  
5 and this should be documented in the NAM. This will not preclude the inclusion  
6 of closed interfaces in call flow diagrams for illustrative purposes only.

7                   •     **OPEN ISSUES**

- 8                   •     The Open Items List v1.0 which was approved by the 3GPP2 SC (S00-  
9 ALLIP-20010116-012) was noted as FYI.

- 10                  •     The Open Items List v1.1 (S00-ALLIP-20010116-008R1) was reviewed in  
11 detailed. During the review process, the list was updated with Owner, Priority,  
12 Due Date, and Status/Action fields on each item. All changes were noted in the  
13 Open Items List v1.2 (S00-ALLIP-20010116-008R2).

14                   During the course of the discussion, a suggestion was made to consider the use  
15 of color in the presentation of this matrix. This suggestion will be investigated  
16 during the project management process.

- 17                  •     A contribution describing a gap between architecture and requirement (S00-  
18 ALLIP-20010116-017) from LGE was carried forward to the next meeting at  
19 the request of the contributor.

- 20                  •     A contribution on proposed new text for requirements 6.1.4e (S00-ALLIP-  
21 20010116-020) was presented by Ericsson. This contribution recommended  
22 that the current text for 6.1.4e be split into two (2) separate requirements. This  
23 recommendation was adopted without objection and the following direction was  
24 confirmed:

- 25                   •     Requirement text 1 from the contribution will replace 6.1.4e.  
26                   •     Requirement text 2 will be added as a new requirement in section 6.1.4.

27                  •     **PROJECT MANAGEMENT**

- 28                  •     A contribution on All IP meeting organization (S00-ALLIP-20010116-018)  
29 was presented by the Secretary. This contribution recommended general  
30 guidelines for the organization of AdHoc meetings. This contribution was  
31 adopted as modified by the discussion (S00-ALLIP-20010116-018R2).

- 32                  •     A contribution on All IP AdHoc Project Documents (S00-ALLIP-20010116-  
33 019R1) was presented by the Secretary. This document recommended a list of  
34 documents to be published by the AdHoc. There was general interest in the  
35 concept of a Release Document as a high-level end-to-end system overview but  
36 the group needed additional time to consider this strategy. This contribution  
37 was left open until the next meeting and it will also been discussed with the other  
38 affected TSGs. The contributor also committed to have a first draft of this  
39 Release Document for discussion at the next meeting.

- A contribution on All IP Development Process Priorities (S00-ALLIP-20010116-022) was presented by the Secretary. This contribution recommended guidelines to be used to prioritize the project development activities. During the discussion, the group decided that this contribution should document the project process and not the prioritization of activities. The All IP Development Process was adopted as modified by the discussion (S00-ALLIP-20010116-022R3).

#### 8. JOINT MEETINGS WITH TSGs:

- The proposed AdHoc position on QoS issues (S00-ALLIP-20010116-021) was presented and reviewed by the Editor. This contribution was approved as modified by the discussion (S00-ALLIP-20010116021R3) for submission to the upcoming QoS JEM.

9. OLD BUSINESS: None.

10. ASSIGNMENTS: Not separately detailed.

11. FUTURE MEETINGS:

DATE	LOCATION
13-15 February 2001	Sheraton San Marcos in Phoenix, AZ
13-15 March 2001	Outrigger Wailea in Maui, HI
10-12 April 2001	Atlanta, GA

#### 12. ADMINISTRATION AND OTHER BUSINESS:

- The proposed AdHoc status report (S00-ALLIP-20010116-024) was presented and reviewed by the Chair. This contribution was approved without objection for transmission to all TSG Chairs and the SC Chair with the contributions specifically referenced therein as attachments.
- The All IP Feature List v0.2 (S00-ALLIP-20010116-023A) was presented. This list had been generated from the Requirements document v1.0 by several different groups of AdHoc participants. Text related to User Benefits and Operators Benefits had been added by these groups to provide additional understanding to TSG-S WG1 when they reviewed it. Based on the fact that this added text had not been reviewed and accepted by the group, the group decided to delete that text prior to transmission. The modified version of the Feature List v0.3 without the referenced text (S00-ALLIP-20010116-023AR3) was then approved without objection for transmission to TSG-S as FYI to WG1. The liaison cover letter (S00-ALLIP20010116-023) was approved for this purpose.

The Feature List v0.3 that still included the User Benefit and Operator definitions (S00-ALLIP-20010116-023AR2) was remanded to all participants for review and comment via e-mail discussions or at the next meeting.



- 1           •       A final review of the Open Items List v1.3 (S00-ALLIP-20010116-008R3) was
- 2                   conducted and the status of all items was confirmed as modified by the discussion as
- 3                   v1.4 (S00-ALLIP-20010116-008R4).

4 13.       ADJOURNMENT: The meeting was adjourned on 18 January 2001 at 4:30 PM local time.

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## 1 CONTACT LIST:

POSITION	ASSIGNEE	E-MAIL
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3GPP2-S00-ALLIP-20010116-			
NUMBER	TITLE	SOURCE	DISPOSITION
000	DOCUMENT REGISTER	SECRETARY	FYI
001	AGENDA	CHAIR	FYI
002	RESERVED		N/A
003	All IP Project - Proposed Statement of Direction	ERICSSON	OPEN
004	Proposed change to All IP Requirements - Registration	ERICSSON	OPEN
005	Service network, OSA, Parlay	ERICSSON	OPEN
006	Issues related to mobile stations domains and phasing of functionality	ERICSSON	OPEN
007	ALL IP AdHoc Terms of Reference	CHAIR	FYI
008	Initialization of open items list	VICE CHAIR	APPROVED
009	Directions Forward for the TSG-S All-IP Ad Hoc Group	VICE CHAIR	OPEN
010	Correspondence dated 12 January 2001 regarding ALL IP requirements	MWIF	OPEN
011	Proposed Agenda for TSG-S QoS JEM	VICE CHAIR	FYI
012	All IP Open Items List v1.0	CHAIR	FYI
013	All IP Requirements v1.0	CHAIR	FYI
014	All IP Workplan v1.0	CHAIR	FYI
015	All IP NAM v1.0	CHAIR	FYI
016	High level requirements proposed by MWIF	MWIF	OPEN
017	Gap between architecture and requirements	LGE	CARRIED FORWARD
018	TSG-S All IP AdHoc Meeting organization	SECRETARY	APPROVED
019	TSG-S All IP AdHoc project documents	SECRETARY	OPEN
020	Proposed new text for requirement 6.1.4e	ERICSSON	APPROVED
021	All IP input to QoS JEM	EDITOR	APPROVED
022	All IP Development Priorities	SECRETARY	APPROVED
023	All IP Feature List	EDITOR	OPEN
024	All IP Status Report	SECRETARY	APPROVED

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