

1 **Title:**

2 APPROVED SUMMARY OF ALL IP ADHOC MEETING
3 for the period of 20-21 September 2000 in Seoul, Korea

4 **Source:**

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6 SECRETARY

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9 **Abstract:**

10 This document is a summary of the discussions from the 3GPP2 ALL IP AdHoc meetings held at
11 the Sheraton Walker Hill Hotel in Seoul, Korea during the period of 20-21 September 2000.

12 **Recommendation:**

13 For review and approval.

14

15 **Notice:**

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21 from the partner SDOs.

- 1 During the period of 20-21 September 2000, a meeting of 3GPP2 All IP AdHoc was held at the
2 Sheraton Walker Hill Hotel in Seoul, Korea. This report is intended to summarize those
3 discussions.
- 4 1. CALL TO ORDER AND OPENING REMARKS: The meeting was called to order on
5 20 September 2000 at 10:15 AM local time by All IP AdHoc Co-Chair Mark Lipford
6 (Sprint PCS). The sign-in sheets indicate that approximately 50 persons were in
7 attendance.
- 8 2. IPR POLICY QUERY: The Chair referred the participants to the copyright statement on
9 the agenda and noted that submission of a contribution at this meeting would be assumed
10 as commitment to that copyright statement.
- 11 3. ATTENDANCE REGISTRATION: An electronic sign-in sheet was distributed to for the
12 registration of attendees.
- 13 4. AGENDA REVIEW AND APPROVAL: The agenda was presented and approved
14 without objection as modified by the discussion (ALLIP-20000920-001R3).
- 15 5. CONTRIBUTIONS: ASSIGNMENT TO AGENDA ITEMS: Contributions (ALLIP-
16 20000920-000R3) were assigned to agenda items - all in soft copy format only.
- 17 6. MEETING SUMMARY APPROVAL: The meeting summary for the August 2000
18 meeting in San Francisco, CA (ALLIP-20000920-002) was presented and approved
19 without objection as submitted.
- 20 7. CORRESPONDENCE: None.
- 21 8. REPORTS:
- 22 a. 3GPP2
- 23 • A Liaison Report from TSG-S (ALLIP-20000920-010) was presented as
24 FYI.
- 25 • The meeting summary of the NAM and Requirements Focus Groups
26 meeting in Vancouver, BC during the period 6-8 September 2000 (-
27 ALLIP-20000920003) was presented and approved without objection as
28 editorially modified by the discussion (ALLIP-20000920-003R1).
29 However, this contribution was subsequently disapproved in conjunction
30 when the review of contribution ALLIP-20000920-019 indicated that the
31 description of evolution phases defined by the Evolution FG in conjunction
32 with contribution ALLIP-RFG20000906-009 was noted to be in error.
33 The revised summary (ALLIP20000920-003R1) was then re-approved
34 without objection.
- 35 b. MWIF: A brief verbal summary of MWIF status was provided by Mike Dolan
36 (Lucent). He indicated that MWIF WG4 was in the process of preparing
37 simulation strategies to be presented to both 3GPP and 3GPP2. In addition, he
38 indicated that MWIF Architectural notes and recommendations (ALLIP--
39 20000920-022) will be discussed under the NAM agenda item.
- 40 c. CDG: No report.

1 d. 3GPP: No report.

2 e. OTHERS: None.

3 9. FUTURE MEETINGS

4 The Chair noted the recommendation of the NAM FG that a V&V session of the FG is
5 scheduled for final document V&V. There was discussion on whether this meeting should
6 be a full AdHoc meeting since approval of the final document by the full AdHoc will be
7 required. The group decided without objection that this meeting would be a FG meeting
8 only for V&V of both NAM and requirements documents and that a full AdHoc
9 conference call would be held subsequently to approve the final output. The detailed
10 schedule was summarized as follows:

- 11 • 3-5 October 2000 All IP AdHoc Final meeting - Chicago, IL
- 12 • 18-20 October 2000 NAM FG - Essex Inn in Burlington, VT
- 13 • 23 October 2000 NAM FG output broadcast on the e-mail exploder
- 14 • 25 October 2000 All IP AdHoc Conference Call for final acceptance
15 of documents (5:30 PM Eastern US time on 25 Oct.,
16 6:30 AM Japan on 26 Oct.)

17 10. OLD BUSINESS

18 a. STAGE 1 REQUIREMENTS

- 19 • In the absence of both the Requirements Editor and his stand-in for the
20 Vancouver meetings, Henrik Basilier (Ericsson) led the discussions on this
21 topic.
- 22 • The All IP Requirements document v0.6.2 (ALLIP-20000920-004) was
23 presented and the changes from the recent FG meetings were reviewed in
24 detail. The changes were accepted without objection but additional minor
25 editorial changes were noted.
- 26 • The Requirements Open Item List (ALLIP-20000920-004A) was
27 presented and the changes were reviewed in detail.

28 There was only one (1) remaining open item (item 21) and TSG-A input
29 was required on that topic. Although the Chair of the TSG-A RAN WG
30 indicated no problem with the text as proposed, several concerns were
31 expressed regarding the inefficiencies of vocoder placement in the RAN.
32 However, after substantial discussion, the requirement was approved
33 without objection for incorporation into the requirements document as
34 written with the understanding that this requirement may need to be fleshed
35 out or modified during the final review process.

36 During the review of the Open Item List, it was noted that many of the
37 items that were indicated as approved in this document had not been
38 included in the Requirements document v0.6.2. Those approved items
39 need to be added.

- 1 • An updated version (v0.6.3) of the Requirements (ALLIP-20000920--
2 004R1) document was noted including corrections of all of the omissions
3 indicated above.

4 b. NAM

5 *NOTE: This portion of the meeting was conducted as a NAM FG meeting and*
6 *was facilitated by NAM FG Co-Chair, Mike Dolan (Lucent).*

- 7 • The NAM document v0.7.2 (ALLIP-20000920-005R1) was presented by
8 the Editor and all changes were reviewed. Editorial comments should be
9 directed to the Editor by e-mail. NOTE: The group agreed that, in the
10 future, the Editor will broadcast only the pdf file of the NAM document
11 and all other versions of the document will be posted to the 3GPP2 ftp
12 website by the Secretary.
- 13 • A contribution entitled "All IP Evolution" (ALLIP-20000920-028) was
14 presented by the Evolution FG Editors. This contribution proposed text
15 for Section 5 of the NAM as agreed to within the Evolution FG. The text
16 in this document was accepted without objection as modified by the
17 discussion (ALLIP-20000920-028R1).
- 18 • A contribution entitled "Should we integrate the "Service Manager" and
19 the "Session Control Manager", or shouldn't we? This is the question." (-
20 ALLIP20000920-006) was presented by Ericsson. This contribution
21 recommended the integration of the SM and SCM functions in the NAM.
22 This recommendation was accepted by the group without objection. In
23 addition, the text in the contribution as modified by the discussion (-
24 ALLIP-20000920006R1) was accepted without objection.
- 25 • A contribution on NAM text updates (ALLIP-20000920-009R1) was
26 presented by 3COM. This contribution proposed minor editorial changes
27 to the Border Router and Subscription QoS Manager sections. The text
28 proposed in this contribution was accepted without objection.
- 29 • A contribution on the improvement of Access Gateway text for the
30 TIA/EIA-41 Domain section (ALLIP-20000920-021) was presented by the
31 All IP AdHoc Experts. This text was approved without objection.
- 32 • A contribution on non-SIP service application access (ALLIP-20000920--
33 012) was presented by Lucent. This contribution proposed changes to the
34 Service Application text and proposed the addition of a new functional
35 entity called Services Gateway. There was general interest in the concept
36 of the Services Gateway but the contributor was directed to revise and
37 resubmit at the next meeting based on the discussion.
- 38 • A contribution on the MM entity function (ALLIP-20000920-016) was
39 presented by LGE. This contribution proposed the addition of paging
40 control to the MM. A small group of experts was designated to review this
41 issue in conjunction with call flow analyses and prepare recommendations
42 for further discussion at this next meeting. The contributor will then revise
43 and resubmit the contribution after these deliberations are completed.

- 1 • A contribution entitled “AAAAA modifications” (ALLIP-20000920-013)
2 was presented by Lucent. This contribution recommended editorial
3 changes to the authorization section. The modifications suggested were
4 noted, but the NAM Editor also noted that there had been an editing error
5 that resulted in the incorrect text for the Authorization Function. That text
6 had been corrected already in a revised version of the NAM. The
7 remainder of the contribution dealt with a small editorial issue and was
8 taken into consideration by the editor. The document was noted as
9 completed by the group.
- 10 • A contribution entitled “ANSI-41 Domain modifications” (ALLIP--
11 20000920014) was presented by Lucent. This contribution proposed
12 modifications to the TIA/EIA-41 Domain text for consistency to other
13 sections of the NAM document. The actions taken by the group are listed
14 below:
- 15 • The proposed text for the TIA/EIA-41 Domain Support was
16 accepted without objection except that the text related to interfaces
17 m and n were removed pending further discussion.
 - 18 • A small group of experts was formed to generate call flows with
19 respect to the authentication of a mobile across boundaries between
20 legacy and AI IP networks.
 - 21 • The text on the HLR was accepted without objection.
 - 22 • The text on the SCP Server was accepted without objection except
23 for item e in the bullet list.
 - 24 • Accepted the recommendation that Section 3.1.5 be deleted.
 - 25 • The change to the title of 3.1.6 was accepted and the entire section
26 was moved to section 3.3. The text changes in this section were
27 also accepted but there was no consensus on the proposed changes
28 to the figure in this section.
- 29 Regarding the figure which was under discussion in the last section, a
30 concern was identified that the lack of consensus posed a threat that
31 functionality currently available in ANSI-41 would be lost. Sprint PCS
32 indicated that this loss of functionality was unacceptable and that they
33 would be generating a future contribution to add an appropriate
34 requirement.
- 35 • A contribution entitled “IP Domain view - R1” (ALLIP-20000920-017)
36 was presented by LGE. This contribution was revised from the last
37 meeting. There was general agreement that this type of diagram is useful
38 and should be included in the NAM but there was not consensus on the
39 details on the diagram. A small group of experts was formed to modify the
40 diagram for discussion at the next meeting.

- 1 • The MWIF Architectural Comments and Recommendations on the 3GPP2
2 All-IP Network Architecture Model v.0.7.0 (ALLIP-20000920-022) were
3 presented by the NAM FG Co-Chair. This contribution provides formal
4 input to the All IP AdHoc based on certain aspects of the MWIF
5 architecture. It included the following two (2) diagrams which are still in
6 development and have not been released outside the group:

- 7 • MWIF Layered Functional Architecture
8 • MWIF Network Reference Architecture

9 Both of the recommendations included in this document had already been
10 considered and implemented in the 3GPP2 All IP NAM so the document
11 was considered as FYI. A response correspondence will be generated from
12 the Chair.

- 13 • A contribution on call flow requirements (ALLIP-20000920-024) was
14 presented by 3COM. This contribution proposed a list of requirements to
15 be considered when developing call flows. This document was accepted
16 for use in the development of the All IP call flows with the exception of the
17 following:

- 18 • Fundamental Requirement 5 was changed to “Accurate capture of
19 failure information for the purpose of billing.”
20 • Corollary and secondary requirements 3, 4, and 5 were rejected.

- 21 • A contribution entitled “Example call flows for NAM validation PA2” (-
22 ALLIP20000920-023) was presented by Ericsson. The call flow diagram
23 related to Access registration and MIP registration in the IP MMed
24 domain with HA allocated in visited network was reviewed in detail.
25 During the discussion, the TSG-A representative expressed a concern
26 regarding the separation of the Mobility Manager from the RAN. The
27 NAM Co-Chair, backed by the AdHoc Chair, indicated to the TSG-A
28 representative that the MM, at this point in time, has been decided by the
29 AdHoc to be a part of the NAM. The call flow work is progressing to
30 validate that NAM. Therefore all entities within that architecture must be
31 used within those call flows when that functionality is addressed. The
32 contributor was directed to revise and resubmit this contribution based on
33 the discussion of this figure.

- 34 • A contribution entitled “Mobile IP Roaming Handoff Interactions Plane:
35 Revised” (ALLIP-20000920-026) was presented by Motorola. This
36 contribution, revised from the Vancouver meeting, proposes a Planar View
37 of handoff mobility management of Mobile IP at various levels of access
38 networks, access gateways, and access technologies. There was general
39 consensus that the diagrams give valuable information in the development
40 of the NAM. However, the actual completion of these diagrams should be
41 the purview of TSG-A. A small group of experts was assigned given to
42 generate 2-3 hard handoff call flow diagrams for use in validation of the
43 NAM.

- 1 • The NAM Open Item List (ALLIP-20000920-005B) was presented by the
2 NAM FG Co-Chair and reviewed in detail. The results of the review (-
3 ALLIP- 20000920-005BR1) were defined as the basis for on-going work.
- 4 c. 3GPP2 WORKPLAN
- 5 • A contribution entitled “All IP workplan and distribution of work” (-
6 ALLIP20000920-011) was presented by Sprint PCS and supported by
7 QUALCOMM, Lucent, 3COM, Ericsson, Nortel Networks, and TSG-P.
8 The contributor noted that this contribution would supersede the
9 previously submitted contribution on this subject from Sprint PCS (-
10 ALLIP-20000823003). This contribution recommended completion of the
11 All IP Network development activity within the existing 3GPP2
12 organizational structure. It included an assignment of responsibilities for
13 each reference point on the NAM to each TSG or combination of TSGs
14 specifying levels of responsibility in cases of joint responsibility. It also
15 indicated that the work of the TSGs with respect to the All IP Network
16 should be coordinated by a dedicated FG reporting to TSG-S.
- 17 • A contribution on organization for All IP specification development (-
18 ALLIP20000920-018) was presented by six (6) Japanese companies
19 including DDI, Fujitsu, Hitachi, IDO, KDD, and NEC. This contribution
20 recommended that a new TSG be formed to through consolidation of
21 TSG-N and TSG-P.
- 22 • A contribution which presented Oki Network Technologies’
23 recommendations for the All IP specification development (ALLIP--
24 20000920-019) was presented by Oki Network Technologies. This
25 document proposed a phased organization structure changes based on
26 specification development phases. The group indicated that the quoted
27 definition of the specification development phases, also indicated in the FG
28 meeting summary (ALLIP-20000920-003), was incorrect and not intended
29 to be serial.
- 30 • After some discussion, the group agreed without objection as follows:
- 31 • Start the work immediately using the existing TSG structure
- 32 • This effort will be coordinated by a group under TSG-S.
- 33 • That the SC set a time frame (approximately 8 months) for review
34 of the 3GPP2 organizational structure to see if any modifications of
35 that structure should be addressed. The input for this discussion
36 will come from all TSGs including particularly TSG-S and the
37 coordinating group.
- 38 • The responsibility matrix from the Sprint PCS contribution will be used as
39 the basis for on-going discussions on the division of labor among the
40 TSGs.

- 1 • TSG-S input to the All IP AdHoc (ALLIP-20000920-020) was presented.
2 This contribution recommended that TSG-S continue, as minimum, its
3 traditional role including requirements definition, network
4 reference/architecture model, and 3GPP2 workplan management. There
5 was general acceptance from the group regarding this role.
- 6 • A contribution on All IP project management in TSG-S (ALLIP--
7 20000920015) was presented by Lucent and Sprint PCS. This contribution
8 including a detailed listing of responsibilities for a new group in TSG-S.
9 Related issues which were noted in the resulting discussion including the
10 following:
- 11 • The contribution recommended a group within TSG-S which would
12 handle requirements, NAM, and project management for the All IP
13 effort. Some concern was expressed that the requirements and
14 NAM should be handled in the normal TSG-S structure and that
15 this group focus on the detailed project leadership issues.
16 However, the group agreed that the internal organization of TSG-S
17 related to this group is a TSG-S decision and not subject to input
18 from the AdHoc.
- 19 • The contribution indicated that TSG-S would be responsible for
20 refining and maintaining the NAM. However, there was general
21 agreement that each TSG is responsible for development of parts of
22 the NAM (i.e., TSG-A is responsible for the RAN) and TSG-S is
23 responsible of incorporating their output into a total 3GPP2 NAM.
- 24 • There was general consensus to make a strong recommendation to
25 TSG-S to establish a single group which can collocate with the
26 other TSGs as required by those TSGs to facilitate project
27 management, NAM development/maintenance including high-level
28 system requirements, and to coordinate end-to-end specification
29 development to facilitate fast decisions without going back through
30 TSG-S.
- 31 • The group further recommended that this coordinating group be
32 established with the right technical mix and representation from all
33 TSGs.
- 34 • There was substantial discussion on whether this AdHoc should
35 recommend to the SC that the TSG-S responsibility for Stage 1
36 development be delegated to this group with respect to All IP
37 activities. Oki Network Technologies objected to this
38 recommendation on the basis that this decision should be the
39 decision of TSG-S. As the All IP Liaison to TSG-S, the objector
40 volunteered and was subsequently directed to solicit TSG-S
41 approval for delegation of these Stage 1 responsibilities to this
42 group for response by the next adhoc meeting.

- 1 • Regarding the meeting schedule proposed in the Sprint PCS contribution,
2 the Chair agreed to prepare a message for broadcast to all TSGs advising
3 the need for increased collocation and suggesting dates for increased
4 collocation for consideration by the TSGs. That message will be broadcast
5 for review on the All IP exploder prior to broadcast to the other TSGs.
6 • The Chair agreed to incorporate discussed recommendations into the
7 proposed workplan (from the Sprint PCS contribution) for further
8 discussion. This input, included in a contribution entitled “3GPP2 All IP
9 Workplan - Baseline” (ALLIP-20000920-025), was presented by the Chair
10 and reviewed in detail. This contribution was subject to additional
11 discussion and including consideration of a contribution from the TSG-A
12 representative on workplan mods (ALLIP-20000920-027). The modified
13 contribution (ALLIP20000920-025R3) was then approved without
14 objection. The group also agreed without objection to the following:
15 • This approved document will be broadcast to all TSGs for review
16 and comment as well as to the All IP e-mail exploder.
17 • This document and all related comments will be reviewed at the
18 next AdHoc meeting in Chicago, IL and, if agreement can be
19 reached, approved at that meeting.
20 • If consensus cannot be reached in Chicago, IL, a strategy must be
21 implemented to allow final approval at the 25 October 2000
22 conference call.

23 11. NEW BUSINESS:

- 24 • The Chair brought the idea of merging the Requirements and NAM documents
25 into a single document for the consideration of the group. The group indicated a
26 preference for keeping the documents as separate items.
27 • The Chair presented an unnumbered contribution with a recommended 2001
28 meeting schedule. This schedule was accepted as the basis for TSG review and
29 comment.
30 • The Chair presented an unnumbered contribution of proposed correspondence to
31 all TSGs which communicated the following information:
32 • The draft All IP workplan.
33 • The recommended 2001 meeting schedule.
34 • The NAM v0.7.2

35 That contribution was approved without objection for transmission to the TSGs.

36 12. REVIEW OF ASSIGNMENTS: Not separately detailed.

37 13. OPEN DISCUSSION: None.

38 14. ADJOURNMENT: The meeting was adjourned at 2:35 PM local time on
39 24 September 2000.

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

NUMBER	SUBJECT	SOURCE
ALLIP-20000920-		
000	CONTRIBUTION REGISTER	SECRETARY
001	AGENDA	CHAIR
002	Meeting summary - August 2000 - San Francisco, CA	SECRETARY
003	Focus Group meeting summary - September 2000 - Vancouver, BC	SECRETARY
004	All IP Requirements	EDITOR
005	All IP NAM	EDITOR
006	Should we integrate the "Service Manager" and the "Session Control Manager", or shouldn't we? This is the question.	ERICSSON
007	Is there a need for a reference point between the "Service Application" and the "Position Server"?	ERICSSON
008	Should a specific "Service Application" be authorised? How?	ERICSSON
009	IP NAM text updates	3COM
010	TSG-S Liaison Report-0008	TSG-S
011	3GPP2 All IP Workplan Proposal	SPRINT PCS AND OTHERS
012	Non-SIP service application access	LUCENT
013	AAAAA modifications	LUCENT
014	ANSI-41 Domain modifications	LUCENT
015	The All IP project management in TSG-S	LUCENT
016	All IP NAM - MM entity discussion	LGE
017	All IP NAM - IP network domain view	LGE
018	Organization for All IP specifications development	DDI
019	Recommendations for specification development for 3GPP2 All IP Network	OKI
020	TSG-S input to the All IP AdHoc	TSG-S
021	Improvement of Access Gateway Text for TIA/EIA-41 Domain	ALL-IP ADHOC EXPERTS
022	MWIF Architectural Comments and Recommendations on the 3GPP2 All-IP Network Architecture Model v.0.7.0	MWIF
023	Example call flows	ERICSSON
024	Call flow requirements	3COM
025	All IP workplan proposal	CHAIR
026	Mobile IP Roaming Handoff Interactions Plane Revised	MOTOROLA
027	Proposed Modifications to All IP Workplan and Division of Work	CHAIR, TSG-A ALL IP ADHOC

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ALLIP-20000920-		
028	All IP Evolution	EVOLUTION FG EDITORS
029	Correspondence to MWIF	SECRETARY

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