Title:

APPROVED SUMMARY OF MEETINGS OF THE NAM AND REQUIREMENTS FOCUS
GROUPS OF THE ALL IP ADHOC
for the period of 6-8 September 2000 in Vancouver, BC

Source:

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SECRETARY
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Abstract:

This document is a summary of the discussions from the NAM and Requirements Focus Group
meetings of the 3GPP2 ALL IP AdHoc held at the Hotel Vancouver in Vancouver, BC during the
period of 6-8 September 2000.

Recommendation:

For review and approval.

Notice:

NOTES:

The discussions in this meeting did not always follow the order specified in the agenda. For readability purposes, this report presents the discussions in agenda order and summarizes all discussions related to a single agenda item under a single section of this document, regardless of the order of discussion.

Since there was no agenda for the Requirements FG, those discussions were noted as an undocumented agenda item (inserted as item 6) on the NAM FG agenda.

During the period of 6-8 September 2000, meetings of the NAM and Requirements Focus Groups of 3GPP2 All IP AdHoc were held at the Hotel Vancouver in Vancouver, BC. This report is intended to summarize those discussions.

1. CALL TO ORDER AND OPENING REMARKS: The meeting was called to order on 6 September 2000 at 9:00 AM local time by NAM FG Co-Chairs, Mike Dolan (Lucent) and Henrik Basilier (Ericsson). Except where otherwise noted, NAM FG Co-Chair, Mike Dolan (Lucent) acted as facilitator for this meeting.

    Mike advised that the meeting would be held in two (2) sections as follows:

    • Until NOON on 6 September 2000   Requirements FG

    • Afternoon on 6 September 2000   NAM and Requirements FG

    • Balance of meeting time   NAM FG

    NOTE: In actuality, no concurrent sessions of the two (2) focus groups were held.

    Mike also noted that Michel Houde (Ericsson) would be chairing the Requirements FG in the absence of the Requirements FG Chair and Requirements document Editor, Phil Brown (Ericsson).

    Mike noted the following scheduling issues for completion of the NAM FG activities:

    • A final meeting of the NAM FG will be required after the currently scheduled 3-5 October 2000 meeting of the All IP AdHoc in Chicago to complete the NAM document.

    • Since the Requirements being developed by this AdHoc are really high-level design guidelines, the All IP AdHoc may want to consider inclusion of these requirements in the NAM documents as design guidelines.

    • Regarding the completion of the NAM document. He suggested the following strategy:

        • Seoul meeting should focus on completion of the functional entities and initial work on call flows to validate the architecture.

        • Chicago meeting should focus on completion of the call flows, final document updates imposed by those call flow reviews, and work on compatibility with 3GPP architecture.

- A new meeting to be scheduled for the week of 16 October 2000 or 23 October 2000 will be required for final cleanup and general V&V prior to the 3GPP2 SC meeting.

2.   IPR POLICY QUERY: The Secretary advised that the submission of contributions at this meeting would be assumed as commitment to the 3GPP2 copyright statement even if the required 3GPP2 copyright language was not include as required in the contribution. No contributions were withdrawn as a result of this advisement. All participants were encourage to ensure that all future contributions included the required copyright statement.

3.   ATTENDANCE REGISTRATION: An electronic sign-in sheet was distributed to for the registration of attendees. This sign-in sheet indicated that approximately 20 persons were in attendance at this meeting.

4.   AGENDA REVIEW AND APPROVAL: The NAM FG agenda was presented and approved without objection as modified by the discussion (ALLIP-AFG-20000906-001R2). There was no specific agenda for the Requirements FG portion of the meeting.

5.   CONTRIBUTIONS: Contributions were distributed electronically as noted in the document registers. The final document registers were ALLIP-AFG-20000906-000R7 and ALLIP-RFG-20000906-000R3.

6.   REQUIREMENTS FG (facilitated by Michel Houde (Ericsson))

- The master list of All IP requirements (ALLIP-RFG-20000906-002) was noted as FYI.

- The Requirements document (ALLIP-RFG-20000906-004) was noted as FYI.

- The latest version of the All IP Requirements Open Item List v10 (ALLIP-RFG-20000906-003) was presented and reviewed in detail. Specific actions from that review were noted as follows:

  - Open item 48: Dropped at the suggestion of the initiator.
  - Open item 49: Dropped at the suggestion of the initiator.
  - Open item 50: No changes to original text of this requirement. LGE (formerly LGIC) will suggest new requirement which documents their concerns.
  - Open item 53: Dropped due to vagueness. LGE was invited to recommend more specific changes to section 6.1.2a.
  - Open item 55: Dropped at the suggestion of the initiator.
  - Open item 56: Dropped at the suggestion of the initiator.
  - Open item 57: Dropped at the suggestion of the initiator.
  - Open item 58: Accepted wording as modified by the discussion.
  - Open item 60: Accepted wording as modified by the discussion.
  - Open item 63: Dropped at the suggestion of the initiator.

- Open item 64: Accepted wording as modified by the discussion as an architectural principle.
  - Open item 65: Reworded as two (2) definitions and four (4) separate requirements. These rewordings were then accepted.
  - Open item 66: Dropped. Replaced by rewording of item 65.
  - Open item 67: Dropped. Replaced by rewording of item 65.
- Contributions on improvements to text on Access Gateway (ALLIP-AFG-20000906-017) and improvements to text on the Mobile IP Home Agent (ALLIP-AFG-20000906-019) were presented by Hyundai in association with open item 70.
  - The Mobile IP Home Agent text was accepted as modified by the discussion for incorporation into the NAM document (ALLIP-AFG-20000906-019R1).
  - The text on Access Gateway was rejected based on lack of support from any company other than the contributor. Open item 70 was also dropped for the same reason. As a result of dropping open item 70, the Hyundai contribution (ALLIP-RFG20000906-005) was withdrawn.
- A contribution on proposed changes to the NAM (ALLIP-AFG-20000906-018) was presented by Hyundai in conjunction with open item 68. This contribution was rejected based on lack of support from any company other than the contributor. Open item 68 was also dropped for the same reason.
- A contribution on proposed modifications to the requirements (ALLIP-RFG-20000906-006) was presented by Lucent and reviewed in detail. Specific actions from that review were noted as follows:
  - Modifications to 6.1.2.a were accepted.
  - Discussions on modifications to 6.1.5.c were deferred pending review of a contribution from 3COM on this topic (ALLIP-RFG-20000906-008).
  - Modifications to 6.1.9.c were accepted.
  - Modifications to 6.1.10.a were accepted.
  - Modifications to 6.1.10.b were accepted.
  - Modifications to 6.2 were accepted.
  - Modifications to 6.2.1.b were rejected.
  - Accepted move and modification of text in 6.2.2.b to the Services section (1.1.6.b)
  - Modifications to 6.2.3.b were accepted.
  - The addition of text in 6.2.6 was accepted.
  - Modifications to 6.3.4.a were accepted as reworded by the discussion.
- A contribution on "Security and Privacy Issues" (ALLIP-RFG-20000906-008) was presented by 3COM. Specific actions from the review of this contribution were noted as follows:

- Proposed changes to 3.1 were accepted as reworded below:
  - Authentication: The act of verifying the identity of an entity (e.g., user, device)
  - Mutual Authentication: The act of two (2) entities verifying the identity of each other.
- The group could not reach consensus on proposed changes to 6.1.5. These discussions were remanded to e-mail discussions.
- Proposed changes to 6.3.5 were withdrawn by the contributor.

- A contribution on proposed definitions for the terms visited and home networks (ALLIP-RFG-20000906-007) was presented by Ericsson. These definitions were accepted as reworded in ALLIP-RFG-20000906-007R1.

- A contribution entitled "All IP Evolution" (ALLIP-RFG-20000906-009) was presented by the Evolution FG. This contribution proposed changes to Section 5 of the Requirements document to describe the recommended 3-phase evolution of existing TIA/EIA-41 networks to the TIA/EIA-41 and IP Multimedia Domains of the All IP Network. After considerable discussion, this contributor was directed to revise and resubmit this contribution based on these discussions.

- An updated version of the Open Items List which included the input of the Evolution FG on the related requirements (ALLIP-RFG-20000906-003R2) was presented and reviewed by Michel. Specific actions from that review were noted as follows:

  - Proposed text for open item 29 was accepted.
  - Proposed text for open item 30 was accepted.
  - Proposed text for open item 31 was accepted as reworded by the discussion.
  - Open item 32 was deleted based on rewording and acceptance of 31.
  - Open item 33 was deleted based on rewording and acceptance of 31.
  - Proposed text for open item 34 was accepted as reworded by the discussion.
  - Open item 35 was deleted based on rewording and acceptance of 29 and 30.

  These changes were documented in an updated Open Items List (ALLIP-RFG-20000906-003R3) and updated Requirements document v0.6.2 (ALLIP-RFG-20000906-004R2). The only remaining open item was noted as item 21 relating to the placement of the vocoder in the network for which the group requires TSG-A input.

7.   NAM FG

- NAM OVERVIEW
  - The latest version (v0.6.1) of the All IP NAM document (ALLIP-AFG-20000906-002) was presented by the Editor. This version was accepted without objection for on-going development.

- A contribution on the proposed Access Gateway to Mobile IP Home Agent Signaling Reference Point (ALLIP-AFG-20000906-023) was presented by Motorola. This proposal was accepted without objection for incorporation into the All IP NAM.

- SERVICES

  - A contribution entitled "Services Creation Environment" (ALLIP-AFG-20000906-003R1) was presented by Ericsson. The concepts related to SCE and SMS (Service Management System) were generally agreed in principle and a small group was formed to make minor corrections for the group to consider. Those corrections were resubmitted as ALLIP-AFG-20000906-003R4 and that text was accepted without objection.

  - A contribution entitled "Services and Applications: Where could they be controlled from and how could they work?" (ALLIP-AFG-20000906-004R1) was presented by Ericsson. A small group was assigned to reword appropriate portions of this contribution based on the discussion. That rewording was resubmitted as ALLIP-AFG-20000906-004R3 and accepted without objection. The decision on whether or not to integrate the functionalities of the SM and SCM was left open for further discussion and contributions were requested for the next meeting. A small group was formed to review this issue with Michel Houde (Ericsson) was named to lead the review effort.

- ANSI-41 DOMAIN SUPPORT, IWF

  - A contribution entitled "Proposed Details to the ANSI-41 Domain" (ALLIP-AFG-20000906-015) was presented by Ericsson.

  - A contribution entitled "Detailed Diagram of TIA/EIA-41 Domain Support " (ALLIP-AFG-20000906-005) was presented by the Co-Chair as the output of a meeting of experts in the NAM FG.

  - Both documents were accepted in principle but the Co-Chair agreed to combine the recommendations on both into a single document. This document was resubmitted as ALLIP-AFG-20000906-005R2 and accepted without objection..

- POSITION SERVER

  - A contribution on improvements to text for the Position Server - revision 2 (ALLIP-AFG-20000906-006) was presented by the Co-Chair as the output of a meeting of experts in the NAM FG. The Co-Chair accepted direction from the group to move the connections to the Access Gateway from the PDE to the Position Server in Figure 2. The modifications were included in rev 3 of that contribution (ALLIP-AFG-20000906-006R1) and the text for Position Server and PDE as well as the illustrative views and associated text were accepted without objection. The examinations of the need for a reference point between a service application and the Position Server as well as the need for authorization for the use of Service Applications in a data-only mode by the mobile were left as an open item.

- SESSION CONTROL MANAGER

  - A proposal for SCM text and call flows (ALLIP-AFG-20000906-021R1) was presented by Ericsson. The group agreed by substantial majority that the only state control information being maintained the SCM of a visited system is the state of resources/services being provided by that network. The proposed text for the SCM was accepted without objection as modified by the discussion (ALLIP-AFG-20000906-021R2).

  - A contribution entitled "Alternatives to SIP Proxy" (ALLIP-AFG-20000906-020) was presented by Lucent.

  - A contribution entitled "Transfer of Call Control from the Home SCM to the Visited SCM" (ALLIP-AFG-20000906-007R1) was presented by Lucent.

  - A contribution on text for the Advertising Agent (ALLIP-AFG-20000906-032) was presented by Lucent. This text was accepted without objection as modified by the discussion (ALLIP-AFG20000906-032R1).

- ACCESS GATEWAY/MM

  - Proposed changes to C-BMW, MM, and AG (ALLIP-AFG-20000906-014) were presented by Ericsson. An open question came out of the discussion on whether or not simple IP should be supported in the IP Multimedia Domain. Ericsson took the assignment to provide a recommendation to the group. Accepted recommendations with wording modified per the discussions (ALLIP-AFG20000906-014R2).

  - A contribution on QoS related changes to NAM (ALLIP-AFG-20000906-025R1) was presented by Sun. This contribution also proposed changes to the Access Gateway text. Accepted recommendations with wording modified per the discussions (ALLIP-AFG-20000906-025R2). Additional changes to the included diagram were specified to the NAM Editor but not included in the modified contribution.

- A contribution on the MM entities in the All IP NAM (ALLIP-AFG-20000906-011) was presented by LGE. A small group was established to examine the functionality of the MM in the access network before the next meeting. Other suggestions which were accepted as reworded by the discussion were included in ALLIP-AFG-20000906-011R1.

- A contributions on improvements to text for Access Gateway (ALLIP-AFG-20000906-017) was presented by Hyundai.

- R-SGW/HLR

  - A contribution on proposed changes for HLR and R-SGW (ALLIP-AFG-20000906-013) was presented by Ericsson. This text was accepted as modified by the discussion (ALLIP-AFG-20000906-013R1).

- AAA

  - A contribution entitled "Detailed text for AAA" (ALLIP-AFG-20000906-008) was presented by the Co-Chair as the output of a meeting of experts in the NAM FG. This changes to text for Authentication and Accounting Functions were approved without objection as modified by the discussion (ALLIP-AFG-20000906-008R1). No changes were approved to the text for Authorization.

- DIAGRAMS/VIEWS (facilitated by Henrik Basilier (Ericsson)

  - An update of a contribution on Mobile IP Roaming Handoff Interactions Plane R1 (ALLIP-AFG20000906-024) was presented by Motorola. A small group was formed to review the issues of concern related to handoff between times t3 and t4, as defined in the contribution, for review at the next meeting.

  - A contribution on Mobile Station Entities in the All IP NAM (ALLIP-AFG-20000906-010R1) was presented by LGE. The group directed that the NAM Editor, Chuck Ishman (Motorola), will take the Mobile Station Entity diagram for the current 3GPP2 NRM and adopt it into a planar view drawing for review and consideration for adoption for the All IP NAM at the next meeting. The proposed text from the contribution was accepted without objection as modified by the discussion (ALLIP-AFG20000906-010R2).

  - A contribution on Domain Views of the All IP NAM (ALLIP-AFG-20000906-012) was presented by LGE. A small group was formed to review and revise this contribution based on concerns expressed during the discussion.

  - A contribution entitled "New Planar View of authentication and authorization for both circuit-based and IP-based access and services (ALLIP-AFG-20000906-028) was presented by Motorola. The contributor was directed to revise and resubmit based on requested modifications to the proposed illustration.

  - A proposal for Planar View text (ALLIP-AFG-20000906-022) was presented by Ericsson. The illustrations from this contribution were accepted without objection as submitted.

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- A contribution on call flows for resource allocations of IP Multimedia Domain calls (ALLIPAFG-20000906-027) was presented by Ericsson. Based on lack of time to complete the review of this document, this contribution was carried over to the next meeting. A small group was formed under the leadership of Lila Madour (Ericsson) to further examine call flows. This contribution will be used as a primary input for that review.

- The following contributions related to this agenda item were also carried over to the next meeting:
    - Transfer of Call Control from the Home SCM to the Visited SCM (ALLIP-AFG-20000906-007R1) from Lucent
    - Use of SIP Proxy (ALLIP-AFG-20000906-020) from Lucent
    - Proposal of SCM text (ALLIP-AFG-20000906-021) from Ericsson

- BANDWIDTH MANAGER

    - In the course of the discussions, the group agreed without objection to rename the "Bandwidth Manager" to the "QoS Manager" and to rename all "bandwidth requests" references to "QoS requests".

    - A contribution on core bandwidth management issues (ALLIP-AFG-20000906-026) was presented by Samsung. Action items based on the review of this document were noted as follows:
        - Based on the fact that the mobile can always initiate the request for resources, NAM reference point 24 will be removed.
        - All other recommendations either had no specific impact on the NAM document or had been previously addressed in the review of previously discussed contributions.

- MEDIA GATEWAY

    - A contribution on improved text for the Media Gateway (ALLIP-AFG-20000906-030) was presented by the Co-Chair as the output of a meeting of experts in the NAM FG. The proposed text was approved without objection as modified by the discussion (ALLIP-AFG-20000906-030R1).

- DEFINITIONS

    - A contribution on the definition of quality of service (QoS) (ALLIP-AFG-20000906-029R1) was presented by 3COM. This contribution specified QoS in terms of bandwidth, delay, jitter, and loss. With a single editorial modification (ALLIP-AFG-20000906-029R2), this proposed text was accepted without objection for inclusion in a new definitions sections of the NAM document.

    - A contribution on "IP Network" improved text (ALLIP-AFG-20000906-031) was presented by Nortel Networks. This text was approved without objection as submitted in the definitions section.

8.   REVIEW OF ASSIGNMENTS:

- The assignments for the NAM FG were documented in the NAM Open Items List rev 2.1 (ALLIP-AFG-20000906-009R2) which was presented by the Co-Chair. This document was reviewed in detail and modifications (ALLIP-AFG-20000906-009R3) will be distributed via the e-mail exploder.

- The NAM Editor was directed to note in the NAM document that the 3GPP2 All IP NAM is based on the following assumptions:

    - SIP
    - DIAMETER
    - MOBILE IP

- The details of an extra meeting of the NAM FG after the final All IP AdHoc meeting on 3-5 October 2000 was discussed. The issue of scheduling was compicated by the fact that TSG-N will meeting during the week of 16 October 2000 and many of the other TSGs will meet during the week of 23 October 2000. The group agreed without objection as indicated in the FUTURE MEETINGS summary below.

9.   FUTURE MEETINGS:

- 20-21 September 2000   Sheraton Walker Hill Hotel in Seoul, Korea
- 3-5 October 2000   Ambassador West (Wyndham) Hotel in Chicago, IL
- 18-20 October 2000   TBD ** - Final clean up and V&V for NAM FG

** Location priorities:

a.   Collocation with TSG-N: Inn at Essex in Burlington, VT

b.   West Coast (i.e., San Diego, San Francisco, Vancouver)

c.   Kyoto

10.   OPEN DISCUSSION:

- The Secretary advised that TSG-C SWG 1.2 (Video Services) intended to make SIP mandatory for use with Video Conferencing. There was some concern regarding the authority of TSG-C to specify SIP since that decision may extend beyond their charter since TSG-C only has authority up to the radio resource controls. Some of the group members expressing those concerns indicated that they would submit contributions to TSG-C on this subject.

11.   ADJOURNMENT: The FG meetings were adjourned at 11:25 AM local time on 8 September 2000.

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

NUMBER	SUBJECT	SOURCE
ALLIP-AFG-20000906-		
000	CONTRIBUTION REGISTER	SECRETARY
001	AGENDA	CHAIR
002	All IP NAM rev 0.6.0	EDITOR
003	Service creation: why is the Service Creation Environment part of the 3GPP2 All IP NAM	ERICSSON
004	Service and application: where can they be controlled from and how can they work?	ERICSSON
005	Detailed diagram of TIA/EIA-41 Domain support	NAM FG EXPERTS
006	Improvements to text for the Position Server - rev 2	NAM FG EXPERTS
007	Transfer of Call Control from the Home SCM to the Visited SCM	LUCENT
008	Detailed Text for AAA	NAM FG EXPERTS
009	NAM Open Items List rev1.1	CHAIR
010	Mobile Station Entities in All-IP NAM	QUALCOMM AND LGIC
011	MM entities in All-IP NAM	LGE
012	Domain Views of the All-IP NAM	LGE
013	Proposed changes to HLR and R-SGW	ERICSSON
014	Proposed changes to AG and MM	ERICSSON
015	ANSI-41 Domain Details	ERICSSON
016	*Renumbered for Requirements FG*	
017	Improvements to text for Access Gateway	HYUNDAI
018	Hyundai Proposed changes to the Network Architecture Model	HYUNDAI
019	Improvements to text for the Mobile IP Home Agent	HYUNDAI
020	Use of SIP Proxy	LUCENT
021	Proposal for SCM text	ERICSSON
022	Proposal for Planar View text	ERICSSON
023	Proposed Access Gateway to Mobile IP Home Agent Signaling Reference Point	MOTOROLA
024	Proposed Mobile IP Roaming Handoff Interactions Plane	MOTOROLA
025	QoS NAM text	SUN
026	Core Bandwidth Management Issues	SAMSUNG
027	Call flows for resource allocations of MMed calls	ERICSSON
028	New Planar View of authentication and authorization for both circuit-based and IP-based access and services	MOTOROLA
029	Definition of Quality of Service	3COM

ALLIP-AFG-20000906-		
030	Improved text for Media Gateway	NAM FG EXPERTS
031	"IP Network" improved text	NORTEL NETWORKS
032	Text for the Advertising Agent	LUCENT
ALLIP-RFG-20000906-		
000	CONTRIBUTION REGISTER	SECRETARY
001	AGENDA	CHAIR
002	Requirements Master List v10	EDITOR
003	Requirements Open Items List v10	EDITOR
004	Requirements v0.6.1	EDITOR
005	Proposed text change of requirement open item 70	HYUNDAI
006	Proposed Modifications to the Requirements	LUCENT
007	Proposed definitions for home and visited networks	ERICSSON
008	Security and Privacy Issues	3COM
009	All IP Evolution	EVOLUTION FG EDITORS