

**3GPP2 TSG-P
Wireless Packet Data Networking**

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TITLE:

TSG-P Meeting Summary, Meeting #25

SOURCE:

Chair, 3GPP2 TSG-P

Samsung Telecommunications America
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Richardson, TX 75081

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ELECTRONICS

ABSTRACT:

This document contains the summary of the TSG-P meeting, which was held on May 7-11, 2001 in Beijing, China.

RECOMMENDATION:

Review for accuracy and amend as needed.

Notice

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**Wireless Packet Data Networking
Meeting Report, Meeting #25**

Date: May 7 - 11, 2001
 Location: China World Hotel
 NO 1 Jian Guo Men Wai Avenue Da Bei Yao
 Beijing, People's Republic of China
 Chair: Haeng S. Koo, Samsung Electronics
 Phone: 972.761.7755
 E-mail: hskoo@sta.samsung.com

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Quorum Members, Attendees, and Attendance Status

Organization	Attendee of this meeting	Last 4 Meetings Attended
Alcatel USA		#22 #23 #24
Certicom Corp		#22 #23 #24
Cisco	Glen Zorn	#22 #23 #24 #25
CommWorks	Ed Campbell	#22 #23 #24 #25
Ericsson	Lila Madour	#22 #23 #24 #25
Hyundai Electronics		#24
Fujitsu	Mamoru Higuchi	#22 #23 #24 #25
Hitachi		#24
KDDI	Takuo Seki	#22 #23 #25
LG Electronics	Ki-Young Kim	#22 #23 #24 #25
Lucent Technologies	Tom Hiller	#22 #23 #24 #25
Motorola	Wayne Bowen	#22 #23 #24 #25
NEC		#22 #24
Nokia	Thin Nguyenphu	#22 #23 #24 #25
Nortel Networks	Kuntal Chowdhury	#22 #23 #24 #25
Qualcomm Inc.	Raymond Hsu	#22 #23 #24 #25
Qwest Communications	Jim Gately	#23 #24 #25
Samsung Electronics	Haeng S. Koo	#22 #23 #24 #25
SK Telecom	Dongkie Lee	#22 #23 #25
Sprint PCS	Iris Zeng	#22 #23 #24 #25
Starent Networks	Paul Shieh	#22 #23 #24 #25
Sun Microsystems		#22 #24
Tantivy Communications		#22 #23 #24
Verizon Wireless		#23 #24
Winphoria Networks		#23 #24

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Others Present

Organization	Attendee
Ericsson	Ulises Olvera
Ericsson	Henrik Basilier
Lucent Technologies	Mike McPheters
Lucent Technologies	Frank Alfano
Motorola	Sebastian Thalanany
Nokia	Craig Rhoades
Nokia	Ernie Tacsik
Samsung Electronics	Junhyuk Song
ZTE Corporation	Hongjun Liu
ZTE Corporation	Hongbing Xia
ZTE Corporation	Rongjian Xiao

ZTE Corporation	Minghe Zhao
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1. Call To Order and Opening Remarks

The meeting was called to order at 9:00 AM on May 7, 2001 at China World Hotel, Beijing, People's Republic of China.

2. Attendance Registration

The names and organizations of the present are reflected above. The quorum list stood at 26 member companies. With 16 member companies present, a quorum was declared. Mistsubishi Electric was removed from the quorum list.

3. Review and Adoption of Agenda

The Chair introduced 3GPP2-P00-20010507-001 as the proposed agenda, and P.S0001-B outline was added as 8A13.

4. Contributions Assignment to Agenda Items

The following 32 contributions were submitted, numbered and assigned to the agenda:

Number	Title	Source	Agenda Item
3GPP2-P00-20010507-001	Proposed Agenda	Haeng Koo, Chair, Samsung	3
3GPP2-P00-20010507-002	Meeting Summary, Meeting #24	Haeng Koo, Chair, Samsung	5
3GPP2-P00-20010507-003	Correspondences	Haeng Koo, Chair, Samsung	6
3GPP2-P00-20010507-004	TSG-P Work Items and Action Items	Haeng Koo, Chair, Samsung	10,11
3GPP2-P00-20010507-005	QoS Mapping Tradeoff Discussion	Frank Alfano, Tom Hiller, Pete McCann, Lucent	8A1
3GPP2-P00-20010507-006	Discussion for Mobile Station PPP/LCP Requirements	Tom Hiller, Pete McCann, Lucent	8A1
3GPP2-P00-20010507-007	P.S0001-B Outline	Tom Hiller, Lucent	8A13
3GPP2-P00-20010507-008	Response to TSG-A correspondence	Sebastian Thalanany, Motorola	6
3GPP2-P00-20010507-009	Conference Call Summary	Haeng Koo, Chair, Samsung	5
3GPP2-P00-20010507-010	TSG-P All-IP Framework	Wayne Bowen, Motorola	B
3GPP2-P00-20010507-011	MN-HA authentication clarification	JunHyuk Song, ChaeYong Chong, Samsung; Dongkie Lee, SK Telecom	8A5
3GPP2-P00-20010507-012	Dynamic Home Agent allocation comment	JunHyuk Song, ChaeYong Chong, Samsung; Dongkie Lee, SK Telecom	8A5
3GPP2-P00-20010507-013	Visited Dynamic Home Agent allocation	JunHyuk Song, ChaeYong Chong, Samsung	8A5
3GPP2-P00-20010507-014	FA-HA Authentication	JunHyuk Song, ChaeYong Chong, Samsung; Dongkie Lee, SK Telecom	8A5
3GPP2-P00-20010507-015	Support for Always-On Requirement	Dongkie Lee, Sung Kim, SK Telecom	8A12
3GPP2-P00-20010507-016	QoS report: Concepts, architecture and mechanisms (Release C3) Rev. 0.2	Lila Madour, Ericsson	8A1
3GPP2-P00-20010507-017	Header compression for Voice-over-IP in CDMA2000 Rev. 0.1	Lila Madour, Ericsson	8A3
3GPP2-P00-20010507-018	1XEV-DO impacts on the CDMA2000 Packet Core Network	Ericsson	8A12
3GPP2-P00-20010507-019	Impacts of non-transparent/transparent header compression on applications	Lila Madour, Ulises-Olvera Hernandez, Ghyslain Pelletier, Lars-Erik Jonsson, Ericsson	8A3

3GPP2-P00-20010507-020	Link-Layer Assisted ROHC Header Compression in CDMA 2000 Establishment and Operation Procedures Proposed Stage 2 Description	Ghyslain Pelletier, Lila Madour, Lars-Erik Jonsson, Ulises-Olvera Hernandez, Ericsson	8A3
3GPP2-P00-20010507-021	Negotiation of Packet Flow Filters Over PPP	Lila Madour, Ulises-Olvera Hernandez, Francis Lupien, Teresa Hunkeler, Ericsson	8A1
3GPP2-P00-20010507-022	Mobile Ipv6 issues	Ericsson	8A7
3GPP2-P00-20010507-023	Comments on Dynamic home agent assignment with RADIUS based AAA server.	Kuntal Chowdhury, Nortel Networks	8A5
3GPP2-P00-20010507-024	Revised proposal for DNS server IP address configuration in IS-835	Kuntal Chowdhury, Pete Wenzel, Nortel Networks	8A12
3GPP2-P00-20010507-025	Simple IP Zombie PPP and Always-on	Pete Wenzel, Kuntal Chowdhury, Nortel Networks	8A12
3GPP2-P00-20010507-026	Comments on Home Agent selection technique for dynamic Home Agent allocation with RADIUS (P00-20010312-027)	Glen Zorn, Cisco Systems	8A5
3GPP2-P00-20010507-027	Mobile IPv6 security issues	Ernie Tacsik, Nokia	8A7
3GPP2-P00-20010507-028	3GPP2 TSG-P IP Version Framework	Ernie Tacsik, Nokia	8A7
3GPP2-P00-20010507-029	Dynamic HA allocation requirements and issues	Ericsson	8A5
3GPP2-P00-20010507-030	Lucent Comments and New Text for Link-Layer Assisted ROHC Header Compression in CDMA 2000 Establishment and Operation Procedures Proposed Stage 2 Description	Tom Hiller, Lucent	8A3
3GPP2-P00-20010507-031	Lucent Comments for P00-20010507-016-unmarked QoS frameworkRev02	Tom Hiller, Lucent	8A1
3GPP2-P00-20010423-002	Model 4 Mobile Requirements	Tom Hiller, Pete McCann, Lucent	8A3

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2 5. Review of Meeting Reports

3 The Chair introduced 3GPP2-P00-20010508-002, Meeting Summary, Meeting #24, and the contribution was accepted as
4 presented. The Chair also presented 3GPP2-P00-20010507-009, Conference Call Summary, which was accepted as
5 presented.

6 6. Correspondence

7 The Chair presented the following correspondences using the files under Correspondences folder:

- 8 • To George Turnipseed, TSG-A Chair, and Jean Alphonse, TSG-C Chair, regarding Enhancements to Support Zero
9 Byte Header Compression => For information only;
- 10 • From Richard Robinson, TSG-S Chair, regarding Broadcast/Multicast Stage 1 => Some concerns on the document;
11 The TSG need to send comments;
- 12 • To Richard Robinson, TSG-S Chair, regarding A New TSG-P Work Item (Packet Data Security) => For information
13 only;
- 14 • From Richard Robinson, TSG-S Chair, regarding IP Push Capability => Reply correspondence deferred to the June
15 meeting;
- 16 • From Richard Robinson, TSG-S Chair, regarding Stage 1 Templates => No comments;

- 1 • From Cliff Barber regarding 3GPP2 System Capability Guide Release 2 => P.S0001 should be P.R0001;
- 2 • From Richard Robinson, TSG-S Chair, regarding Wireless Packet Data Security => For information only;
- 3 • From George Turnipseed, TSG-A Chair, regarding Fast handoff schedule and Accounting record questions => C2 for
- 4 Fast Handoff; Reply correspondence to TSG-A on ESN;
- 5 • From Mark Lipford, All IP AHG Chair, regarding Proposed TSG-N All IP NAM Changes => No comments;
- 6 • From Mark Lipford, All IP AHG Chair, regarding Removal of the Message Flows Annex from the NAM =>
- 7 Acceptable.

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9 Sebastian Thalany presented 3GPP2-P00-20010507-008, Response to TSG-A correspondence. The Chair will use this
10 contribution to send the reply correspondence to TSG-A Chair.

11 7. Reports

12 Glen Zorn made a report on the IETF Diameter protocol development status, and Tom Hiller made a report on the Mobile
13 Ipv6 status of the IETF Mobile IP Working Group.

14 The Chair made a report on the last Philadelphia Steering Committee meeting as shown in the SC Report folder.

15 Henrik Basilier made a report on the All IP as shown in All-IP folder.

16 8. Old Business

17 A. 3G Packet Data Technical Standard (Rel C)

18 1. QoS

19 Lila Madour presented 3GPP2-P00-20010507-016, QoS report: Concepts, architecture and mechanisms (Release C3) Rev.
20 0.2. This contribution was accepted as a new baseline.

21 Tom Hiller presented 3GPP2-P00-20010507-005, QoS Mapping Tradeoff Discussion. This contribution provides a
22 tradeoff of the proposed two QoS mapping approaches, Channel ID and Reference bit and MCFTP. This contribution was
23 for discussion only.

24 Tom Hiller presented 3GPP2-P00-20010507-006, Discussion for Mobile Station PPP/LCP Requirements. This contribution
25 offers discussion of requirements of supporting only a single or multiple PPP/LCP instance(s) to a mobile station. This
26 contribution was for discussion only.

27 Ulises-Olvera Hernandez presented 3GPP2-P00-20010507-021, Negotiation of Packet Flow Filters over PPP. This
28 contribution proposes mechanisms for negotiation of Packet Flow Filters over PPP using existing Network Control
29 Protocols with appropriate extensions. This contribution was for discussion only.

30 Tom Hiller presented 3GPP2-P00-20010507-031, Lucent Comments for P00-20010507-016-unmarked QoS
31 frameworkRev02. This contribution was accepted with minor modification to be incorporated into the framework
32 document.

33 2. Fast Handoff

34 There was no contribution on this work item.

35 3. Header Compression

36 Lila Madour presented 3GPP2-P00-20010507-017, Header compression for Voice-over-IP in CDMA2000 Rev. 0.1. This
37 contribution was accepted as a new baseline.

38 Tom Hiller presented 3GPP2-P00-20010423-002, Model 4 Mobile Requirements, which was discussed at the April 23,
39 2001 conference call. This contribution was accepted as presented.

40 Lila Madour presented 3GPP2-P00-20010507-019, Impacts of non-transparent/transparent header compression on
41 applications. This contribution introduces background information regarding transparency and header decompression. It

1 provides a discussion of non-transparent header generation schemes and their impacts to applications. This contribution is
2 for information only.

3 Ulises Olvera-Hernandez presented 3GPP2-P00-20010507-020, Link-Layer Assisted ROHC Header Compression in
4 CDMA 2000 Establishment and Operation Procedures Proposed Stage 2 Description. This contribution was held open
5 before it is incorporated into the framework document.

6 Tom Hiller presented 3GPP2-P00-20010507-030, Lucent Comments and New Text for Link-Layer Assisted ROHC Header
7 Compression in CDMA 2000 Establishment and Operation Procedures Proposed Stage 2 Description. Comments on Model
8 3 were accepted for being incorporated into the framework document. Comments on Models 2 and 4 were not accepted.
9 To resolve the issues related to Models 2 and 4, a face-to-face meeting and a conference call were scheduled on May 29 and
10 31, 2001, respectively.

11 **4. Broadcast/Multicast**

12 There was no contribution on this work item.

13 **5. Mobile IP Enhancements**

14 The following three contributions were presented regarding dynamic Home Agent allocation:

3GPP2-P00-20010507-012	Dynamic Home Agent allocation comment	JunHyuk Song, ChaeYong Chong, Samsung; Dongkie Lee, SK Telecom
3GPP2-P00-20010507-023	Comments on Dynamic home agent assignment with RADIUS based AAA server	Kuntal Chowdhury, Nortel Networks
3GPP2-P00-20010507-026	Comments on Home Agent selection technique for dynamic Home Agent allocation with RADIUS (P00-20010312- 027)	Glen Zorn, Cisco Systems

15 After discussing the contributions, the TSG decided to adopt Solution #1 of 3GPP2-P00-20010507-012, which leaves dynamic
16 HA allocation up to implementation. Option 1 of 3GPP2-P00-20010507-023 is also in line with Solution #1. During
17 discussion of this topic, the TSG came up with the requirements and issues documented in 3GPP2-P00-20010507-029,
18 Dynamic HA allocation requirements and issues, by Lila Madour.

19 JunHyuk Song presented 3GPP2-P00-20010507-011, MN-HA authentication clarification. This contribution clarifies the
20 distribution of shared secret used for MN-HA authentication. Out of the four proposed solutions, the TSG accepted
21 Solution #2, which is for HA to send Access Request to HAAA for shared secret.

22 JunHyuk Song presented 3GPP2-P00-20010507-013, Visited Dynamic Home Agent allocation, for discussion only. The
23 TSG decided not to do dynamic allocation in the visited network.

24 JunHyuk Song presented 3GPP2-P00-20010507-014, FA-HA Authentication, for discussion only. The TSG decided not to
25 do FA-HA authentication.

26 **6. AAA V2 Impacts**

27 There was no contribution on this work item.

28 **7. IPv6**

29 Ernie Tacsik presented 3GPP2-P00-20010507-027, Mobile IPv6 security issues. This contribution addresses the security
30 concerns with MIPv6, identifies issues, outlines potential solutions, and recommends a pro-active course of action for
31 3GPP2 in order to progress the adoption of IPv6 and MIPv6. Ernie also proposed a liaison letter to the IETF as shown in
32 027A. The TSG couldn't reach a consensus on whom the liaison should be addressed to. Ernie will send his proposal to
33 the exploder for discussion, and the Chair will send the liaison letter to Steering Committee Chair based on the result of the
34 discussion.

35 Lila Madour presented 3GPP2-P00-20010507-022, Mobile Ipv6 issues. This contribution describes security issues with
36 Mobile IPv6. It also motivates discussions within 3GPP2 that need to state its directives and requirements with respect to

1 support of Mobile IPv6 in the CDMA2000 wireless IP standard. The above liaison letter to the IETF will address some of
2 the issues in this contribution.

3 Ernie Tacsik presented 3GPP2-P00-20010507-028, 3GPP2 TSG-P IP Version Framework. This is the proposed outline of
4 the framework document, which was accepted with modifications.

5 **8. Accounting Enhancements**

6 There was no contribution on this work item.

7 **9. Push Enabler for IP**

8 There was no contribution on this work item.

9 **10. Realm Configured Packet Data Session Inactivity Timer**

10 There was no contribution on this work item.

11 **11. Packet Data Security**

12 There was no contribution on this work item.

13 **12. Other Release C Work Items**

14 Dongkie Lee presented 3GPP2-P00-20010507-015, Support for Always-On Requirement. The TSG decided that it is a PPP
15 resource issue and an implementation issue.

16 Lila Madour presented 3GPP2-P00-20010507-018, 1XEV-DO impacts on the CDMA2000 Packet Core Network, for
17 discussion only. Contribution on accounting changes was urged.

18 Kuntal Chowdhury presented 3GPP2-P00-20010507-024, Revised proposal for DNS server IP address configuration in IS-
19 835. This contribution is a revised proposal of a mechanism to communicate the DNS server IP address to a mobile
20 terminal. It is necessary to clarify the manual configuration is allowed and add the call flow for Simple IP.

21 Kuntal Chowdhury presented 3GPP2-P00-20010507-025, Simple IP Zombie PPP and Always-on. This contribution
22 proposes a mechanism for detecting Zombie PPP sessions that does not rely on solely on the PPP inactivity timer and is
23 applicable to both Simple IP and Mobile IP always-on services. This contribution was left open to assess the impact to the
24 system.

25 **13. P.S0001-B Outline**

26 Tom Hiller presented 3GPP2-P00-20010507-007, P.S0001-B Outline.

27 **B. All IP**

28 Wayne Bowen presented 3GPP2-P00-20010507-010, TSG-P All-IP Framework. This document takes the basic 3GPP2 All-
29 IP Wireless IP Network Architecture Model and applies the All-IP Workplan to present only those Functional Entities and
30 Reference Points assigned to TSG-P for Stage 2 and Stage 3 completion. This contribution was left open.

31 Mamoru Higuchi presented All-IP Work Plan (S00-ALLIP-20010508-004r1) for information only.

32 **9. New Business**

33 There was no new business.

34 **10. Workplan Review**

35 The Chair presented 3GPP2-P00-20010507-004, TSG-P Work Items and Action Items. Work items and action items were
36 updated as shown in the R2 version.

37 The workplan for Release C is as follows:

- 1 • Contributions: June, 2001
- 2 • Baseline: July, 2001
- 3 • V&V: September, 2001

4 **11. Review Assignments**

5 The assignments from the meeting were reviewed and shown in 3GPP2-P00-20010507-004R2, TSG-P Work Items and
6 Action Items.

7 **12. Future Meeting Schedule**

8 *Year 2001 Schedule*

Week	Location
June 11 – 15, 2001	Vancouver
July 9 - 13, 2001	Montreal
August 13 – 17, 2001	Calgary
September 17 – 21, 2001	Japan
October 15 - 19, 2001	Korea
November 5 - 9, 2001	Tucson
December 3 – 7, 2001	Maui

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10 *Year 2002 Schedule*

DATE	LOCATION
January 7-11	Vancouver
February 4-8	San Diego
March 11-15	Japan
April 15-19	San Francisco
May 13-17	Cancun
June 10-14	China
July 8-12	Quebec City
August 5-9	Alaska
September 9-13	Korea
October 21-25	Seattle
December 2-6	Hawaii

11 **13. Open Discussion**

12 There was no open discussion.

13 **14. Adjournment**

14 The meeting was adjourned at 6:00 PM local time on May 10, 2001.