3GPP2 TSG-P
Wireless Packet Data Networking

TITLE:

TSG-P Meeting Summary, Meeting #23

SOURCE:

Chair, 3GPP2 TSG-P

Samsung Telecommunications America
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ABSTRACT:

This document contains the summary of the TSG-P meeting, which was held on March 12 -16, 2001 in Maui, Hawaii.

RECOMMENDATION:

Review for accuracy and amend as needed.

Notice

1 **Wireless Packet Data Networking**
2 **Meeting Report, Meeting #23**
3
4

Date:	March 12 – 16, 2001
Location:	Outrigger Wailea
	3700 Wailea Alanui
	Wailea, Maui, HI 96753
Chair:	Haeng S. Koo, Samsung Electronics
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6 Quorum Members, Attendees, and Attendance Status
7

Organization	Attendee of this meeting	Last 4 Meetings Attended
Alcatel USA	Tom Tansil	#20 #21 #22 #23
Certicom Corp	Dorothy Gellert	#20 #21 #22 #23
Cisco	Rajesh Bhalla	#20 #21 #22 #23
CommWorks	Ed Campbell	#20 #21 #22 #23
Ericsson	Lila Madour	#20 #21 #22 #23
Hyundai Electronics		#20 #21
ETRI		#20
Fujitsu	Mamoru Higuchi	#20 #21 #22 #23
Hitachi		#21
KDDI	Takuo Seki	#20 #22 #23
LG Electronics	Ki-Young Kim	#20 #21 #22 #23
Lucent Technologies	Tom Hiller	#20 #21 #22 #23
Mitsubishi Electric		#20 #21
Motorola	Wayne Bowen	#20 #21 #22 #23
NEC		#22
Nokia	Thin Nguyenphu	#20 #21 #22 #23
Nortel Networks	Kuntal Chowdhury	#20 #21 #22 #23
Qualcomm Inc.	Raymond Hsu	#20 #21 #22 #23
Samsung Electronics	Haeng S. Koo	#20 #21 #22 #23
SK Telecom	Dongkie Lee	#20 #21 #22 #23
Sprint PCS	Iris Zeng	#20 #21 #22 #23
Starent Networks	Paul Shieh	#21 #22 #23
Sun Microsystems		#20 #21 #22
Tantivy Communications	Howard Heller	#21 #22 #23
Verizon Wireless	Bryan Cook	#20 #21 #23

8
9 **Others Present**
10

Organization	Attendee
Award Solutions	Linda Morales
Cisco	Glen Zorn
Ericsson	Ulises Olvera
Ericsson	Lars-Erik Jonsson
Ericsson	Frances Lupien
Ericsson	Henrik Basilier
Fujitsu	Alan Hameed
Lucent Technologies	Mike McPheters
Lucent Technologies	Frank Alfano
Motorola	Sebastian Thalanany

Nokia	Craig Rhoades
Nokia	Ernie Tacsik
Nortel Networks	Serge Manning
Qwest Communications	Jim Gately
Samsung Electronics	Junhyuk Song
Samsung Electronics	Fabricio Velez
Winphoria Networks	Srini Rao

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1. Call To Order and Opening Remarks

3 The meeting was called to order at 8:30 AM on March 12, 2001 at Outrigger Wailea in Wailea, Maui, HI.

2. Attendance Registration

5 The attendance roster was circulated, and the names and organizations of the present are reflected above. The quorum list
6 stood at 25 member companies. With 19 member companies present, a quorum was declared.

3. Review and Adoption of Agenda

8 The Chair introduced 3GPP2-P00-20010312-001 as the proposed agenda, which was approved as presented.

4. Contributions Assignment to Agenda Items

10 The following 37 contributions were submitted, numbered and assigned to the agenda:
11

Number	Title	Source	Agenda Item
3GPP2-P00-20010312-001	Proposed Agenda	Haeng Koo, Chair, Samsung	3
3GPP2-P00-20010312-002	Meeting Summary, Meeting #22	Haeng Koo, Chair, Samsung	5
3GPP2-P00-20010312-003	Correspondences	Haeng Koo, Chair, Samsung	6
3GPP2-P00-20010312-004	TSG-P Work Items and Action Items	Haeng Koo, Chair, Samsung	10
3GPP2-P00-20010312-005	QoS Transport Options in cdma2000 Wireless IP Networks	Raymond Hsu, Nish Abrol, Marcello Lioy, Qualcomm	8A1
3GPP2-P00-20010312-006	Transparent GEHCO	Tom Hiller, Pete McCann, Lucent	8A3
3GPP2-P00-20010312-007	Enhancements to Support Zero Over-Head RTP Header Compression	Tom Hiller, Lucent	8A3
3GPP2-P00-20010312-008	QoS Forward Mapping and Multiple Service Instances	Tom Hiller, Lucent	8A1
3GPP2-P00-20010312-009	2002 Meeting Plan	Haeng Koo, Chair, Samsung	12
3GPP2-P00-20010312-010	Quality of Service Comments	Wayne Bowen, Motorola	8A1
3GPP2-P00-20010312-011	0-Byte Header Compression	Wayne Bowen, Motorola	8A3
3GPP2-P00-20010312-012	Overview of ROHC framework	Ericsson	8A3
3GPP2-P00-20010312-013	Overview of 0-byte ROHC and Voice over IP models	Ericsson	8A3
3GPP2-P00-20010312-014	TSG-P Requirements for Model 3 Zero-byte Header Compression for VoIP Header Compression Algorithm (cdma2000 codec)	Thinh Nguyenphu, Nokia, Glen Zorn, Cisco Systems, Wayne Bowen, Motorola, Raymond Hsu, Qualcomm, Tom Hiller, Lucent, Lars-Erik Jonsson, Ericsson	8A3
3GPP2-P00-20010312-015	TSG-P Release C3 and alignment with TSG-C and TSG-A	Ericsson	10
3GPP2-P00-20010312-016	CDMA2000 Traffic classes, service instances and applied compression	Ericsson	8A1
3GPP2-P00-20010312-017	Comments on Lucent GEHCO Zero Byte Profile Proposal	Thinh Nguyenphu, Nokia	8A3
3GPP2-P00-20010312-018	Requirements for cdma2000 VoIP	Thinh Nguyenphu, Nokia	8A3

	Header Compression Algorithm (cdma2000 codec)		
3GPP2-P00-20010312-019	Mobility Requirements for All-IP network	Thinh Nguyenphu, Nokia	8B
3GPP2-P00-20010312-020	Realm configured packet data inactivity timer.	Sebastian Thalanany, Motorola	8A10
3GPP2-P00-20010312-021	Service Differentiation between SIP and MIP Revision 1	Jun Hyuk Song, Chae Yong Chong, Samsung, Dongkie Lee , SK Telecom,	8A10
3GPP2-P00-20010312-022	Status Update -- PP Interface specifications	Rajesh Bhalla, Cisco Systems	8A2
3GPP2-P00-20010312-023	PPP Resource Management at the PDSN -- Evaluation Criterion and Decision Matrix	Rajesh Bhalla, Cisco Systems	8A5
3GPP2-P00-20010312-024	PPP Resource Management at the PDSN – Text changes to 'cdma2000 Wireless IP network Standard'	Rajesh Bhalla, Cisco Systems	8A5
3GPP2-P00-20010312-025	Year 2002 Meeting Schedule Recommendation	Iris Zeng, Sprint PCS	12
3GPP2-P00-20010312-026	Comparison of Proxy DNS Update by RADIUS vs HA	Dongkie Lee, Sung Kim, SK Telecom	8A9
3GPP2-P00-20010312-027	Home Agent selection technique for dynamic Home Agent allocation with RADIUS.	Kuntal Chowdhury, Serge Manning, Nortel Networks	8A6
3GPP2-P00-20010312-028	Inter-PDSN Fast Handoff Accounting	Serge Manning, Nortel Networks	8A8
3GPP2-P00-20010312-029	All IP Project Plan	Henrik Basilier, Ericsson	6
3GPP2-P00-20010312-030	Comments on transparent GEHCO (GEHCO-T)	Francis Lupien, Ulises Olvera-Hernandez, Lila Madour, Lars-Erik Jonsson, Ericsson	8A3
3GPP2-P00-20010312-031	TSG-P Requirements for Zero-byte Header Compression	Glen Zorn, Cisco Systems	8A3
3GPP2-P00-20010312-032	ROHC 0-Byte Lite	Ericsson	8A3
3GPP2-P00-20010312-033	TSG-P Requirements for Zero-byte Header Compression	Glen Zorn, Cisco Systems, Thinh Nguyenphu, Nokia, Wayne Bowen, Motorola	8A3
3GPP2-P00-20010312-034	Questions Regarding Transparency in Nokia HC Requirements	Glen Zorn, Cisco	8A3
3GPP2-P00-20010312-035	Response to TSG-C correspondence pertaining to the contribution: "Realm configured packet data session inactivity timer"	Sebastian Thalanany, Motorola	8A10
3GPP2-P00-20010312-036	Nokia QoS framework	Ernie Tacsik, Nokia	8A1
3GPP2-P00-20010312-037	TSG-P workplan for All IP	Fujitsu, Mamoru Higuchi	10

5. Review of Meeting Reports

The Chair introduced "3GPP2-P00-20010312-002, Meeting Summary, Meeting #22," and the contribution was accepted as presented.

6. Correspondence

The Chair presented the following correspondences:

- • To George Turnipseed, TSG-A Chair, regarding Fast Handoff Support,
- • From Betsy Kidwell, TSG-N Chair, regarding March Meeting Planning,
- • To Richard Robinson, TSG-S Chair, regarding Update for TSG-P Work Items, and

1 • From Jean Alphonse, TSG-C Cair, regarding Packet Data Inactivity Timer Based on Realm.
2
3 Henrik Basilier introduced the correspondence from All IP AHG Chair regarding review of the All-IP project plan and
4 assignment of a liaison to the All-IP AHG. Mamoru Higuchi volunteered for the liaison. TSG-P needs to send a response
5 correspondence on the All IP workplan to All IP AHG.

6   7. Reports

7 Henrik Basilier made a report on the All IP AHG activities.

8   8. Old Business

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

10   1. QoS

11 Raymond Hsu 3GPP2-P00-20010312-005, QoS Transport Options in cdma2000 Wireless IP Networks. This contribution
12 presents the following three transport options to support QoS between the PDSN and MS with multiple service instances
13 over the air and recommends elimination of Multiple PPPs option:
14 • Multiple PPPs,
15 • Single PPP over multiple A10/A8 connections, and
16 • Single PPP over single A10/A8 connection.
17 There was a general agreement on the recommendation. However, the contribution was left open for a meeting cycle for
18 further study.

19 Wayne Bowen presented 3GPP2-P00-20010312-010, Quality of Service Comments, for information and discussion only.

20 Lila and Lars-Erik Jonsson presented 3GPP2-P00-20010312-016, CDMA2000 Traffic classes, service instances and
21 applied compression. The five recommendations of the R2 version of this contribution were modified and accepted as
22 shown in the R3 version. The open issue is whether RFCs 2507/2508 should be mandatory, optional, or not specified.
23 Based on this decision, the mapping table between service instances and HC protocols will be completed at the April
24 meeting.

25 Tom Hiller presented 3GPP2-P00-20010312-008, QoS Forward Mapping and Multiple Service Instances. This
26 contribution is for discussion only looking for feedback.

27 The following two contributions were presented regarding QoS framework:
28 • 3GPP2-P00-20010312-036, Nokia QoS framework, by Ernie Tacsik
29 • 3GPP2-P00-20010212-018, End-to-End QoS model proposal for release B, by Lila Madour.
30
31 The TSG generally accepted the QoS framework presented in 3GPP2-P00-20010212-018. Lila will distribute the updated
32 framework before the April meeting. The updated version of the framework will include agreed upon contributions in
33 Maui, requirements and open issues.

34   2. Fast Handoff

35 Rajesh Bhalla presented 3GPP2-P00-20010312-022, Status Update -- PP Interface specifications. This contribution was for
36 information only.

37   3. Header Compression

38 The following three requirements on header compression were discussed:
39 • 3GPP2-P00-20010312-011, 0-Byte Header Compression, by Wayne Bowen,
40 • 3GPP2-P00-20010312-018, Requirements for cdma2000 VoIP Header Compression Algorithm (cdma2000 codec), by
41   Thinh Nguyenphu, and
42 • 3GPP2-P00-20010312-031, TSG-P Requirements for Zero-byte Header Compression, by Glen Zorn.
43

1   As a result of discussion, the TSG came up with the requirements documented in 3GPP2-P00-20010312-033. Based on
2   these requirements, Lars-Erik Jonsson will submit "Requirements for 0-byte ROHC IP/UDP/RTP Header Compression
3   <draft-jonsson-rohc-rtp-0-byte-requirements-00x.txt>" to the upcoming IETF meeting.
4
5   The following five contributions were presented regarding header compression algorithm:
6   •   3GPP2-P00-20010312-006, Transparent GEHCO, by Tom Hiller,
7   •   3GPP2-P00-20010312-012, Overview of ROHC framework, by Lars-Erik Jonsson,
8   •   3GPP2-P00-20010312-013, Overview of 0-byte ROHC and Voice over IP models, by Francis Lupien, Lars-Erik
9   Jonsson and Lila Madour,
10 •   3GPP2-P00-20010312-017, Comments on Lucent GEHCO Zero Byte Profile Proposal, by Thinh Nguyenphu, and
11 •   3GPP2-P00-20010312-030, Comments on transparent GEHCO (GEHCO-T), by Francis Lupien.
12
13 The TSG made the following decision on the algorithm:
14 •   PDSN supports a common ROHC 0-byte header compression profile which supports both Model 2 and 3 Mobile
15   Stations.
16 •   MS has an option to implement Model 2 or 3.
17 •   Model 2 MS supports the 0-byte profile as presented in 3GPP2-P00-20010312-032, ROHC 0-Byte Lite.
18 •   Model 3 MS supports the ROHC 0-byte profile.
19
20 CDMA2000 specifics of 0-byte profile for Model 2/3 need to be worked out.
21
22 Tom Hiller presented 3GPP2-P00-20010312-007, Enhancements to Support Zero Over-Head RTP Header Compression.
23 This is a correspondence to TSG-A and C Chairs regarding enhancements to support zero ovehead RTP header
24 compression, which was deferred to the next meeting.
25
26 Glen Zorn presented 3GPP2-P00-20010312-034, Questions Regarding Transparency in Nokia HC Requirements, for
    discussion only.

4.   Broadcast/Multicast
27
28 There was no contribution on this topic.

5.   Mobile IP Enhancements
29
30 Rajesh Bhalla presented 3GPP2-P00-20010312-023, PPP Resource Management at the PDSN -- Evaluation Criterion and
31 Decision Matrix. This contribution (adoption of option #5) was accepted as presented.
32
33 Rajesh Bhalla presented 3GPP2-P00-20010312-024, PPP Resource Management at the PDSN – Text changes to
    'cdma2000 Wireless IP network Standard'. This contribution was accepted with a minor change.

6.   AAA V2 Impacts
34
35 Kuntal Chowdhury presented 3GPP2-P00-20010312-027, Home Agent selection technique for dynamic Home Agent
36 allocation with RADIUS. This contribution proposes load balancing and fault tolerance solutions. There was still a
37 question whether carriers would need this kind of solution. Cisco mentioned that there is a solution based on VSRP. This
38 contribution was left on to compare with the Cisco's contribution.

7.   IPv6
39
40 There was no contribution on IPv6.

8.   Accounting Enhancements
41
42 Serge Manning presented 3GPP2-P00-20010312-028, Inter-PDSN Fast Handoff Accounting. This contribution was
43 accepted as a baseline input. Carrier input is needed on the partial UDR.

9. Push Enabler for Service

Dongkie Lee presented 3GPP2-P00-20010312-026, Comparison of Proxy DNS Update by RADIUS vs HA. Cisco and SK Telecom will work together and bring contribution on the proposed text changes.

10. Other Release C Work Items

Sebastian Thalanany presented 3GPP2-P00-20010312-020, Realm configured packet data inactivity timer, which was accepted as a baseline.

Sebastian Thalanany also presented 3GPP2-P00-20010312-035, Response to TSG-C correspondence pertaining to the contribution: "Realm configured packet data session inactivity timer". This contribution was accepted, and the Chair will send the correspondence to TSG-C Chair using this information.

Jun Hyuk Song presented 3GPP2-P00-20010312-021, Service Differentiation between SIP and MIP Revision 1. The recommended solution was accepted, and the TSG decided to incorporate the proposed change in the upcoming PN-4732-AD1 ballot.

B. All IP

Thinh Nguyenphu presented 3GPP2-P00-20010312-019, Mobility Requirements for All-IP network, which was accepted with modifications.

9. New Business

None.

10. Workplan Review

The Chair presented 3GPP2-P00-20010312-004, TSG-P Work Items and Action Items. Work items and action items were updated as shown in the R3 version.

Lila Madour presented 3GPP2-P00-20010312-015, TSG-P Release C3 and alignment with TSG-C and TSG-A. There is a potential misalignment in QoS, Header Compression and 1xEVDO. The liaison will cover the alignment for Header Compression. The progress of TSG-A and C need to be monitored for QoS and 1xEVDO.

Mamoru Higuchi presented 3GPP2-P00-20010312-037, TSG-P workplan for All IP. This is the initial attempt at the All IP workplan for the TSG-P work.

The workplan for Release C is as follows:
- Contributions: June, 2001
- Baseline: July, 2001
- V&V: September, 2001

11. Review Assignments

The assignments from the meeting were reviewed and shown in 3GPP2-P00-20010312-004R4, TSG-P Work Items and Action Items.

12. Future Meeting Schedule

Year 2001 Schedule

Week	Location
April 9 - 12, 2001	Atlanta
May 7 – 11, 2001	China
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 | Mauai |

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2 The Chair presented 3GPP2-P00-20010312-009, 2002 Meeting Plan. This is the output of the first TSG Chairs meeting on
3 2002 meeting plan. Iris Zeng presented 3GPP2-P00-20010312-025, Year 2002 Meeting Schedule Recommendation. Here
4 is the TSG-P tentative TSG-P's schedule:

5

WEEK	LOCATION
1/7/02	Cancun
2/3/02	Aspen
3/10/02	Japan
4/7/02	San Francisco
5/13/02	Korea
6/9/02	Vancouver
7/7/02	Alaska
8/4/02	China
9/9/02	New York City
10/6/02	Las Vegas
11/3/02	Melbourne
12/1/02	Hawaii

6

13. Open Discussion

8 There was no open discussion.

14. Adjournment

10 The meeting was adjourned at 6:00 PM local time on March 15, 2001.