| 3 3 3 3 3 Wireless Packet Data Networking | | | |
|---|----------------|--|--|
| | TITLE: | | |
| | | TSG-P Meeting Summary, Meeting #20 | |
| | SOURCE: | | |
| | | Chair, 3GPP2 TSG-P | SAMSUNG |
| | | Samsung Telecommunications America 1130 E. Arapaho Road Richardson, TX 75081 | ELECTRONICS |
| | | Haeng S. Koo (972)761-7755 hskoo@sta.samsung.com | |
| | ABSTRACT | : | |
| | | This document contains the summary of the twentie 8, 2000 in Kauai, HI. | th TSG-P meeting, which was held on December 4 |
| | RECOMME | NDATION: | |
| | | Review for accuracy and amend as needed. | |

33 Notice

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41 and conditions, as appropriate.

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3GPP2 TSG-P Wireless Packet Data Networking Meeting Report, Meeting #20

| Date: | December 4 - 8, 2000 |
|-----------|-----------------------------------|
| Location: | Hyatt Regency Kauai Resort & Spa |
| | Kauai, HI |
| 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

| 7 | |
|---|--|
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| Organization | Attendee of this meeting | Last 4 Meetings | Quorum |
|------------------------------------|--------------------------|-----------------|--------|
| - | | Attended | Member |
| 3Com | Ed Campbell | #17 #18 #19 #20 | Yes |
| Cisco | Rajesh Bhalla | #17 #18 #19 #20 | Yes |
| Ericsson | Lila Madour | #17 #18 #19 #20 | Yes |
| Hyundai Electronics | Dong Hyun Lee | #17 #18 #20 | Yes |
| ETRI | Jae Young Ahn | #17 #18 #20 | Yes |
| Fujitsu | Mamoru Higuchi | #18 #19 #20 | Yes |
| Hitachi | | #18 #19 | Yes |
| KDDI | Takuo Seki | #19 #20 | Yes |
| LG Electronics | Ki0Youbg Kim | #17 #18 #20 | Yes |
| Lucent Technologies | Tom Hiller | #17 #18 #19 #20 | Yes |
| Lucent Technologies (TTC delegate) | Hajime Shiino | #17 #19 #20 | Yes |
| Motorola | Sebastian Thalanany | #17 #19 #20 | Yes |
| NEC | | #17 #19 | Yes |
| Nortel Networks | Neville Rego | #17 #18 #20 | Yes |
| Qualcomm Inc. | Raymond Hsu | #17 #18 #19 #20 | Yes |
| Samsung Electronics | Haeng S. Koo | #17 #18 #19 #20 | Yes |
| Sprint PCS | David Collins | #17 #18 #19 #20 | Yes |
| | | | |

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10 Others Present

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| Organization | Attendee |
|-------------------------|-----------------------|
| Alcatel USA | Tom Tansil |
| Certicom Corp | Dorothy Gellert |
| Cisco | Murtaza Chiba |
| Converse Network System | Shoji Matsushita |
| CWTS/RITT | Hua Ye |
| Ericsson | Mohammed Sammoor |
| France Telecom | Josep Sole Tresserres |
| Hyundai Electronics | Shin Hyun Yang |
| Lucent Technologies | Mike McPheters |
| Mitsubishi Electric | Daqing Gu |
| Motorola | Anda Farcasanu |
| Motorola | Wayne Bowen |
| Nextel | David Zufall |
| Nextel | H. Hussan Patrovi |
| Nokia | Thin Nguyenphu |
| Nokia | Anna Sillanpaa |
| Nortel Networks | Neville Rego |

San Diego, CA

| intal Chowdhury |
|-----------------|
| sh Abrol |
| e Hyuk Do |
| 1hyuk Song |
| ck Phung |
| s Zeng |
| ng Kim |
| ongkie Lee |
| t Calhoun |
| ott English |
| eve Rados |
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The meeting was called to order at 8:35 AM on December 4, 2000 at Hyatt Regency Kauai Resort & Spa in Kauai, HI.

1. Call To Order and Opening Remarks

2. Attendance Registration

The attendance roster was circulated, and the names and organizations of the present are reflected above. The quorum list stood at 17 member companies. With 15 member companies present, a quorum was declared.

3. Review and Adoption of Agenda

The Chair introduced 3GPP2-P00-20001204-001 as the proposed agenda, which was approved with the addition of agenda item, "9B. 1xEV-DO."

4. Contributions Assignment to Agenda Items

The following 26 contributions were submitted, numbered and assigned to the agenda:

| | | <u></u> | |
|------------------------|--|--|----------------|
| Number | Title | Source | Agenda Item |
| 3GPP2-P00-20001204-001 | Proposed Agenda | Haeng Koo, Chair, Samsung | 3 |
| 3GPP2-P00-20001204-002 | Meeting Summary, Meeting #19 | Haeng Koo, Chair, Samsung | 5 |
| 3GPP2-P00-20001204-003 | Correspondence | Haeng Koo, Chair, Samsung | 6 |
| 3GPP2-P00-20001204-004 | Comparisons of Low Interruption Deferred Handoff Approaches 6 | Lucent , Tom Hiller, Pete McCann | 8B2 |
| 3GPP2-P00-20001204-005 | Solution for Collocated COA Mobiles on Carrier-Based Home Agents | Lucent , Tom Hiller, Pete McCann | 8B6 |
| 3GPP2-P00-20001204-006 | Multiple RLP and QoS | Lucent , Tom Hiller, Pete McCann | 8B1 |
| 3GPP2-P00-20001204-007 | RFC 2507 and RFC 2508 Header Compression with Retransmitting RLP | Lucent , Tom Hiller, Pete McCann | 8B2 |
| 3GPP2-P00-20001204-008 | Changes for Airlink Record Encoding | Motorola, Sebastian Thalanany | 8B8 |
| 3GPP2-P00-20001204-009 | Clarifications to IS–835 and Proposed Text Changes | Cisco Systems, Murtaza Chiba, Rajesh Bhalla, Gopal Dommety | 8A |
| 3GPP2-P00-20001204-010 | Fast Handoff in cdma2000 Wireless IP Networks | Cisco Systems, Murtaza Chiba, Rajesh Bhalla, Gopal Dommety | 8B2 |
| 3GPP2-P00-20001204-011 | PPP Resource Management at the PDSN | Cisco Systems, Murtaza Chiba, Rajesh Bhalla, | 8B4 |

| | | Gopal Dommety | |
|------------------------|---|---|--------|
| 3GPP2-P00-20001204-012 | 0-byte Header Compression for cdma2000 | Ericsson, Mohammed Sammour, Francis Lupien, Ulises Olvera-Hernandez, Lila Madour | 888 |
| 3GPP2-P00-20001204-013 | Diameter protocol requirements for release B | Ericsson, Lila Madour | 8B5 |
| 3GPP2-P00-20001204-014 | Fast-handoff and ROHC Header Compression | Ericsson, Lila Madour | 8B2 |
| 3GPP2-P00-20001204-015 | Clarification on differentiation between Simple IP and Mobile IP | SK Telecom, Dongkie Lee, Sung Kim | 8A/8B8 |
| 3GPP2-P00-20001204-016 | Comment on authentication Method for HDR-based subscriber | SK Telecom, Dongkie Lee, Sung Kim | 9B |
| 3GPP2-P00-20001204-017 | Accounting Trigger for PDSN | SK Telecom, HyaeKyeung Lee, Sung Kim | 8A |
| 3GPP2-P00-20001204-018 | Data Octet Count specification for the PDSN Accounting | SK Telecom, HyaeKyeung Lee, Sung Kim | 8A |
| 3GPP2-P00-20001204-019 | Proxy DNS Update by Home Agent for Mobile Node | SK Telecom, Dongkie Lee, Sung Kim | 8B8 |
| 3GPP2-P00-20001204-020 | The Problems with CISCO key distribution by SNMP | Samsung, Jun Hyuk Song, Rick Phung, Sang Yong Moon, Chae Yong Chong | 8A |
| 3GPP2-P00-20001204-021 | Replacement text for Section 6.2.4, 6.3.2, and 6.4 in IS-835 addendum with SAMSUNG's IKE security key distribution method | Samsung, Jun Hyuk Song, Rick Phung, Sang Yong Moon, Chae Yong Chong | 8A |
| 3GPP2-P00-20001204-022 | Priority of work items for Release B | KDDI, Takuo Seki | 8B8 |
| 3GPP2-P00-20001204-023 | Handover support in 1xEV-DO: impacts on PCN resources and accounting. | Ericsson, Lila Madour | 9B |
| 3GPP2-P00-20001204-024 | Leading role for 1xEV-DO network specifications | Ericsson, Lila Madour | 9B |
| 3GPP2-P00-20001204-025 | The clarification for P00- 20001204-Samsung-Key distribution | Samsung, Jun Hyuk Song, Rick Phung, Sang Yong Moon, Chae Yong Chong | 9B |
| 3GPP2-P00-20001204-026 | 'S' Fetching Protocol | Sun Microsystems, Pat | 8A |

5. Review of Meeting Reports

The Chair introduced "3GPP2-P00-20001204-002, Meeting Summary, Meeting #19," and the contribution was accepted as presented.

6. Correspondence

The Chair presented the correspondence from Steven Dennett, Chair, 3GPP2 Steering Committee, regarding TSG leadership election. The Chair announced that the election of Chair and Vice Chairs would be held at the January meeting as requested by the correspondence.

7. Reports

- 15 Tom Hiller made a report on the IETF activities.

8. Old Business

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A. V&V of Addendum to P.S0001-A

Annex A lists the V&V comments for Addendum to P.S001-A. All the comments were reviewed and incorporated based on review discussion. The updated document that includes the results of the V&V resolution is in file P.S0001-A-R4.doc.

The following table shows the contributions and their resolutions related to the V&V comments:

| Number | Title | Source | Resolution |
|------------------------|------------------------------------|--------------------------|-----------------|
| 3GPP2-P00-20001204-009 | Clarifications to IS-835 and | Cisco Systems, Murtaza | Rejected. |
| | Proposed Text Changes | Chiba, Rajesh Bhalla, | - |
| | | Gopal Dommety | |
| 3GPP2-P00-20001204-015 | Clarification on differentiation | SK Telecom, Dongkie Lee, | Implementation |
| | between Simple IP and Mobile IP | Sung Kim | Issue. |
| 3GPP2-P00-20001204-017 | Accounting Trigger for PDSN | SK Telecom, HyaeKyeung | Accepted. Use |
| | | Lee, Sung Kim | F1 and F2. |
| 3GPP2-P00-20001204-018 | Data Octet Count specification for | SK Telecom, HyaeKyeung | Accepted. |
| | the PDSN Accounting | Lee, Sung Kim | Added G15 and |
| | | | G16. |
| 3GPP2-P00-20001204-020 | The Problems with CISCO key | Samsung, Jun Hyuk Song, | Accepted with |
| | distribution by SNMP | Rick Phung, | modifications |
| | | Sang Yong Moon, Chae | proposed by Pat |
| | | Yong Chong | Calhoun. |
| 3GPP2-P00-20001204-021 | Replacement text for Section | Samsung, Jun Hyuk Song, | Accepted with |
| | 6.2.4, 6.3.2, and 6.4 in IS-835 | Rick Phung, | modifications. |
| | addendum with SAMSUNG's | Sang Yong Moon, Chae | |
| | IKE security key distribution | Yong Chong | |
| | method | | |
| 3GPP2-P00-20001204-026 | 'S' Fetching Protocol | Sun Microsystems, Pat | Rejected. |
| | | Calhoun | 1 |

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22 23 There were several V&V resolutions, especially on accounting parameters, that would impact IOS V4.0. Rajesh Bhalla volunteered to bring them to TSG-A as ballot comments of IOS V4.0.

B. 3G Packet Data Technical Standard (Rel B)

18 Tom Hiller presented 3GPP2-P00-20001204-006, Multiple RLP and QoS. This contribution proposes support of multiple 19 RLP with PPP. Since there was no QoS framework that can be used for making a decision, this contribution was left open 20 for further discussion.

Support of multimedia services 2.

24 25 Tom Hiller presented 3GPP2-P00-20001204-007, RFC 2507 and RFC 2508 Header Compression with Retransmitting RLP. This contribution proposes adopting RFC 2507, 2508 and 2509 as mandatory for the PDSN and optional for the mobile 26 27 station. This contribution was left open for further discussion.

28 29 Mohammed Sammour presented 3GPP2-P00-20001204-012, 0-byte Header Compression for cdma2000. This contribution 30 extends ROHC (Robust Header Compression) for cdma2000 application. Again, this contribution was left open for further 31 discussion.

- 32 33 The following three contributions were presented regarding fast or low interruption handoff:
- 34 Rajesh Bhalla - 3GPP2-P00-20001204-010, Fast Handoff in cdma2000 Wireless IP Networks, •

^{1.} QoS

San Diego, CA

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- Tom Hiller 3GPP2-P00-20001204-004, Comparisons of Low Interruption Deferred Handoff Approaches,
- Lila Madour 3GPP2-P00-20001204-014, Fast-handoff and ROHC Header Compression.

After reviewing the three proposals, the TSG selected Phase 1 of the proposal presented by Rajesh Bhalla. The future phases are for further study.

3. Broadcast/Multicast

There was no contribution on this topic.

4. Mobile IP enhancements

Rajesh Bhalla presented 3GPP2-P00-20001204-011, PPP Resource Management at the PDSN. This contribution proposes release of idle/unused PPP sessions at the PDSN as soon as possible. It was carried over to the next meeting.

5. AAA V2 requirements on the current architecture

Lila Madour presented 3GPP2-P00-20001204-013, Diameter protocol requirements for release B. This contribution proposes the required DIAMETER extensions for Release B to be prioritised and communicated to the AAA working group within IETF. Ericsson and Sun will communicate the priority list to IETF.

6. Іруб

Tom Hiller presented 3GPP2-P00-20001204-005, Solution for Collocated COA Mobiles on Carrier-Based Home Agents.
The proposed solution is to distribute a PDSN address prefix to the HA and require that the HA verify the collocated COA is contained within the given prefix of the PDSN. The TSG decided to move on with the proposed solution.

7. Link layer protocol

There was no contribution on this topic.

32 8. Other Release B work items

Sebastian Thalanany presented 3GPP2-P00-20001204-008, Changes for Airlink Record Encoding. This contribution proposes the transfer of Airlink Records without the use of an accounting specific protocol encoding. The basic idea was accepted, and details need to be worked out including backward compatibility issue.

38 Dongkie Lee resubmitted 3GPP2-P00-20001204-015R2, Clarification on differentiation between Simple IP and Mobile IP, 39 for Release B. Dongkie Lee also presented 3GPP2-P00-20001204-019, Proxy DNS Update by Home Agent for Mobile 40 Node. Takuo Seki presented 3GPP2-P00-20001204-022, Priority of work items for Release B. These three contributions 41 were carried over to the next meeting due to lack of time to discuss in depth. 42

43 **9. New Business**

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A. TSG Working Group Organization

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The TSG decided to have two working groups within TSG-P: Release B and All IP. Working group chairs will be elected
in the January meeting. The meetings will be run serially, until parallel sessions deem necessary.

50 **B. 1xEV-DO**

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The following three contributions were remanded to TSG-A/C/P joint meeting on 1xEV-DO:

| Number | Title | Source |
|------------------------|------------------------------|-----------------------|
| 3GPP2-P00-20001204-023 | Handover support in 1xEV-DO: | Ericsson, Lila Madour |

| | impacts on PCN resources and | |
|------------------------|------------------------------|-------------------------|
| | accounting. | |
| 3GPP2-P00-20001204-024 | Leading role for 1xEV-DO | Ericsson, Lila Madour |
| | network specifications | |
| 3GPP2-P00-20001204-025 | The clarification for P00- | Samsung, Jun Hyuk Song, |
| | 20001204-Samsung-Key | Rick Phung, |
| | distribution | Sang Yong Moon, Chae |
| | | Yong Chong |

Dongkie Lee presented 3GPP2-P00-20001204-016, Comment on authentication Method for HDR-based subscriber. This contribution proposes a solution to escape NAI construction in the absence of CHAP for HDR-based subscribers.

However, the proposed solution was found an implementation issue.

The TSG discussed leading role for 1xEV-DO network specifications and decided that TSG-A should have the leading role. However, AAA and Billing should belong to TSG-P.

10. Workplan Review

The workplan for Addendum is as follows:

- Contributions: September, 2000
- Baseline: October, 2000
- V&V December, 2000

The workplan for Release B was updated as follows:

| • | Contributions: | June, 2001 |
|---|----------------|-----------------|
| • | Baseline: | July, 2001 |
| • | V&V | September, 2001 |

11. Review Assignments

The assignments from the meeting were reviewed.

12. Future Meeting Schedule

| Week | Location |
|-------------------------|-----------|
| January 15 – 19, 2001 | San Diego |
| February 12-16, 2001 | Phoenix |
| March 12-16, 2001 | Mauai |
| 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 |

13. Open Discussion

Tom Hiller volunteered to present the QoS standard status of TSG-P and IETF at the QoS JEM.

32 14. Adjournment

The meeting was adjourned at 4:00 PM local time on December 7, 2000.

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1 Annex A: V&V Comments

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| 2. Source | 3. Page | 4. Line | 5. Section | 6. Type | 8. Comment |
|--------------|------------|------------|---------------|------------|--|
| (Company | 1 age | Linc | beeton | Type | |
| 3Com | 1 | 2 | Cover | Е | Change document number to P.S0001-A-1 (global comment). |
| KDDI | 6 | | 2.1 | 0 | SDB in acronyms |
| | | | | | SNMP in acronyms |
| 3Com | 9 | 33 | 2.2 | Е | Line up indent with other definitions on same page. |
| TTC | 10 | | | E | Page 10; Delete line 27 and 28 (two blank lines) |
| NEC | 10 | 19 | 3.1 | Е | Delete ']' after RFC 2794 |
| KDDI | 11 | | 3.7 | 0 | SNMP RFC number 'Case, Fedor, Schoffstall, & Davin, A Simple Network Management Protocol (SNMP), RFC 1157, May 1990. ' |
| QC | 11 | 33 | 3.7 | 0 | Replase A.S0001 reference as follows: |
| | | | | | TIA/EIA/IS-2001-A, Inter-Operability Specification (IOS) for CDMA 2000 Access Network Interfaces. |
| | | | | | Reason: Section 10 (R-P Interface) has referenced to TIA/EIA/IS-2001-A (a.k.a. IOS V4.1). |
| KDDI | 12 | | 3.8 | 0 | X.509 in reference 'ITU-T recommendation X.509, Public-key and |
| | 10 | - | | . | attribute certificate frameworks' |
| NEC | 13 | 7 | 4 | E | Replace MTO with MTO |
| 3Com | 13 | 10 | 4 | E | Delete space between "-" and "2". |
| 3Com | 18 | 6 | 5 | E | Add period after second "PDSN". |
| 3Com | 18 | 33 | 5.2.1.1 | E | Delete comma after "mapping". |
| QC | 18 | 37 | 5.2.1.2 | E | Change "RP-session" to "R-P session". |
| TTC | 10 | 57 | 3.2.1.2 | E E | Page 10 line 13: 5.2.2.1. should be 5.2.2.1 |
| 3Com | 19 | 13 | 5213 | E | Fage 19, fille 15, $5.2.2$ 1 should be $5.2.2.1$ |
| | 19 | 13 | 5213 | E | Perfect space between . and 1. |
| Cisco | 20 | 5 | 522 | T | $\frac{1}{1} = \frac{1}{1} = \frac{1}{1} = \frac{1}{1}$ |
| Cisco | 20 | 5 | 5.2.2 | 1 | User-nassword(2) = nassword (if PAP) |
| | | | | | CHAP-Password (3) = CHAP ID and CHAP-response (if CHAP) |
| | | | | | NAS-IP-Address $(4) = IP$ address of PDSN |
| | | | | | CHAP-Challenge (60)= challenge value issued by PDSN (if |
| | | | | | $(CHAP)^{1}$ Correlation ID (defined in Annex C) = An ID that correlates |
| | | | | | all accounting sessions |
| | | | | | authorized for this NAI by this access request |
| | | | | | Add Footnote: If the CHAP Challenge value is 16 octets long, it MAY |
| | | | | | be placed in the Request Authenticator field instead of using this |
| | | | | | attribute. |
| | | | | | Note: Per REC 2138, if the CHAP Challenge is 16 bits long it may be |
| L | 20 | | | - | placed in Request Authenticator. |
| Ericsson | 20 | 6 | 5.2.2 | E | Remove "defined in Annex C" |
| | | | | | keplace with "Table 6: Accounting parameter attribute RADIUS definition" |
| 3Com | 20 | 20 | 522 | F | Add word "may" after "server" |
| Friesson | 20 | 20 | 5221 | 0 | Add "and PAP" to title of section so that it reads: |
| 211035011 | 20 | | 5.2.2.1 | | The and TTH to the of socion so that it reads. |

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|-----------------------------|------|------------|---------|------|---|
| Source (Company Name) | Page | Line | Section | Туре | Comment |
| (unic) | | | | | "NAI Construction in the Absence of CHAP and PAP". |
| NEC | 20 | 46 | 5.2.2.1 | Е | Add d after base |
| NEC | 22 | 16- 17 | 5.3 | Е | ditto |
| NEC | 22 | 13 | 5.3 | Е | Delete 2 nd comma (,) and add comma(,) after support |
| 3Com | 22 | 13 & 16 | 5.3 | Е | Delete comma after "should". |
| NEC | 23 | 11 | 5.4.1.1 | Е | Add a period (.) at the end of sentence |
| TTC | 25 | | | Е | Page 25; Delete line 14 (blank line) |
| NEC | 25 | 39 | 6.2.1.2 | Е | Replace RP-session with R-P session |
| 3Com | 25 | 39 | 6.2.1.2 | Е | Change "RP-session" to "R-P session". |
| QC | 25 | 39 | 6.2.1.2 | Е | Change "RP-session" to "R-P session". |
| Ericsson | 25 | 42 | 6.2.1.2 | Т | Old text: If the PDSN receives a failure code other than 133 or 136 in the RRP. New text: If the PDSN receives a failure code in the RRP where repair is not permitted |
| SK Telecom | 26 | 22 | 6.2.1.4 | Т | Conflict with Simple IP NAI construction PDSN is supposed to do NAI construction in the absence of CHAP for accounting purpose for Simple IP. And IS-835 also recommends that "The mobile station should not use CHAP for Mobile IP." That means if MS does not want to authenticate, it could mean Simple IP NAI construction case or Mobile IP case. After LCP negotiation phase, PDSN does not know whether MS use Simple IP or Mobile IP if MS does not want to authenticate it's user due to the above mentioned reasoning. So if MS using Mobile IP Service tries to reject CHAP, PDSN could recognize this as Simple IP NAI construction case, and do NAI construction at this time. And some vendors implemented to put MSID-realm mapping table for NAI construction in RADIUS server, and get that MSID-realm information using Access Request/Accept with username like 'IMSI-707123'. That's because RADIUS server has much more storage than PDSN, so they put that information in RADIUS server. If it is true for a lot of vendors, that's contrary to the initial concept of avoiding longer initial setup time due to PPP authentication. Although most vendors put MSID-realm mapping table in PDSN itself, anyway at PPP authentication stage PDSN internally prepares to do NAI construction and if MS is proven to use Mobile IP, PDSN clears the prepared NAI construction information. So to solve the above mentioned problem, Do not allow no authentication as an indication for Mobile IP Mandates PPP authentication for Mobile IP, and recognize no authentication as as indication for a sort of Simple IP See unloaded document "P00-20001204-015R1-SKTelecom- |
| QC | 27 | 44- 46 | 6.2.2.5 | 0 | Clarification.doc ⁷⁷ If the home RADIUS server sends a Reverse Tunnel Specification attribute in the RADIUS Access-Accept indicating that reverse tunneling is required, and the mobile station did not indicate reverse tunneling in the RRQ, the PDSN shall reject the registration with an error code of 75. |

| 2. Source (Company | 3. Page | 4. Line | 5. Section | 6. Туре | 8. Comment |
|--------------------------|------------|--------------------------|---------------|------------|---|
| Name) | | | | | |
| | | | | | Reason: To clarify the intend of this sentence for the scenario where reverse tunneling is required but the mobile station did not indicate reverse tunneling in the RRQ: |
| TTC | 28 | | | Е | Page 28; Delete line 26 and 27 (two blank lines) |
| 3Com | 28 | 26- 27 | 6.2.3 | Е | Delete these blank lines. |
| 3Com | 28 | 6 | 6.2.3 | E | Add space between "RFC" and "2138". |
| Cisco | 28 | 14 | 6.2.3 | Τ | CHAP-Challenge (60)² = MD5 (Preceding MIP RRQ, Type, Length, SPI), followed by the least-order 237 bytes of the Challenge Field in the MN-FA Challenge Extension. The MD5 checksum is computed over the MIP RRQ data preceding the MN-AAA Extension and the Type, Length, SPI fields of the MN-AAA Extension. Note: Per REC 2138, if the CHAP Challenge is 16 bits long it may be placed in Request Authenticator. In order to be compliant with RFC 2138, we do not want to mandate inclusion of the CHAP-Challenge attribute. Add Footnote: If the CHAP Challenge value is 16 octets long, it MAY be placed in the Request Authenticator field instead of using this |
| | | | | | attribute. Note: Per REC 2138, if the CHAP Challenge is 16 bits long it may be placed in Request Authenticator. |
| Ericsson | 28 | 21 | 6.2.3 | Е | Remove "defined in Annex C" Replace with "Table 6: Accounting parameter attribute RADIUS definition" |
| TTC | 29 | | | Е | Page 29; Delete line 23 and 24 (two blank lines). Delete lines 34 and 35 (two blank lines). |
| 3Com | 29 | 23- 24 & 34- 35 | 6.2.4 | E | Delete these blank lines. |
| 3Com | 29 | 13 | 6.2.4 | Е | Add word "these" after "of". |
| Samsung | 29 | 25 | 6.2.4 | E | Rationale: Clear description Old Text: The appropriate <i>3GPP2 Security Level</i> attribute included in the Access-Accept message allows the home RADIUS server to verify whether IP security service should be provided to the user by the PDSN towards the HA. In the event the service should be provided to the user, the home RADIUS authorizes the PDSN to either use an existing security association with the corresponding HA or to establish a new security association if no prior SA exists. The home RADIUS server indicates to the PDSN if IP security should be applied on registration messages and/or tunneled data, or not to use IPsec at all. This implies that mobile stations in a given PDSN and belonging to the same HA will receive the same security service between the PDSN and HA. |

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|--------------|------------|------------|---------|------------|---|
| 2. Source | J. Page | T. Line | Section | o. Type | Comment |
| (Company | 1 uge | Line | Section | турс | |
| Name) | | | | | |
| | | | | | New Text: The appropriate 3GPP2 Security Level attribute included in |
| | | | | | the Access-Accept message allows the home RADIUS server to |
| | | | | | indicate whether IP security should be applied on registration messages |
| | | | | | and/or tunneled data from PDSN to HA, or not to use IPsec at all. The |
| | | | | | mobile stations in a given PDSN and belonging to the same HA will receive the same security service between PDSN and HA. In the event |
| | | | | | the service should be provided to the user, the home RADIUS |
| | | | | | authorizes the PDSN to either use an existing security association with |
| | | | | | the corresponding HA or to establish a new security association if no |
| | | | | | prior SA exists. |
| QC | 29 | 31 | 6.2.4 | 0 | This implies that mobile stations in served by a given PDSN and |
| - | | | | | belonging to the same HA will receive the same security service |
| | | | | | between the PDSN and HA. |
| | | | | | Reason: To clarify that these mobile stations are served by a same |
| | | | | | PDSN. |
| Samsung | 29 | 39 | 6.2.4 | Т | Rationale: SNMP is not necessary |
| | | | | | Old Text: Simultaneously, the Home RADIUS server shall send the |
| | | | | | potification procedures |
| | | | | | New Text: The pre-shared key is generated by key generator in the |
| | | | | | RADIUS server by input of RADIUS server IP address, PDSN IP |
| | | | | | address, and secret key 'S'. The 'S' shall be random number having |
| | | | | | lifetime to be periodically refreshed. |
| Ericsson | 30 | 8 | 6.2.4 | 0 | Emphasize that IPsec is authorized per PDSN-HA pair, not per |
| | | | | | mobile. The line should read: |
| | | | | | "The PDSN shall not delete existing IPsec security associations to a |
| | | | | | HA if the home RADIUS server does not authorize security for the |
| | | | | | mobile. This is because IPsec should be authorized per PDSN-HA pair |
| | | | | | and thus other mobiles may be using the same IPsec security |
| Samsung | 30 | 21 | 624 | 0 | Rationale: This paragraph should be placed in Radius requirements or |
| Zunisung | 20 | | 0.211 | U | somewhere else |
| | | | | | Old Text: The home RADIUS server will hide shared secrets using a |
| | | | | | method based on the RSA Message Digest Algorithm MD5 [RSA] as |
| | | | | | described in Section 5.2 of RFC 2138 [RADIUS]. This shared secret is |
| 3Com | 30 | 27 | 6.2.4 | Е | Change "an security" to "a security". |
| QC | 30 | 39 | 6.3 | 0 | Change "must" to "shall". |
| | | | | | Person, To use "shall" consistently in Section 6.2 for mandeters |
| | | | | | requirements of HA. |
| QC | 30 | 41 | 6.3 | 0 | Change "must" to "shall". |
| | | | | | Reason: To use "shall" consistently in Section 6.3 for mandatory |
| | | | | | requirements of HA. |
| Nortel | 31 | 4 | 6.3.1 | 0 | Comment: The statement is obvious as we do it anyway. Therefore, it |
| Networks | | | | | could be ms-interpreted. |
| | | | | | Preference is to strike this line out or expand it to clear that we |
| | | | | | registrations for different NAIs. |

| 2. Source | 3. Page | 4. Line | 5. Section | 6. Туре | 8. Comment |
|-------------------|------------|------------|---------------|-------------------|---|
| (Company Name) | 8 | | | | |
| Ericsson | 31 | 7 | 6.3.2 | 0 | Change "are required" to "may be authorized", "and" to "and/or". The sentence should read: "Security associations may be authorized for MIP control and/or |
| Ericsson | 31 | 7 | 6.3.2 | 0 | Change "IKE" to "IPsec", and "or" to "and/or". The sentence should |
| | | | | | read: "Also, IPsec requires that all mobile stations on a given PDSN belonging to the same HA receive the same security between the PDSN and UA for projectation measures and/or typeshed data" |
| Samsung | 31 | 11 | 6.3.2 | Т | Rationale : SNMP is not necessary Old Text: The Home Agent will receive the <i>Pre-Shared-Secret</i> and the <i>KeyID</i> from the RADIUS server via SNMP event notification. The Home RADIUS and HA are assumed to be in the same administrative domain. Therefore, a secure communication path for SNMP is assured. New Text: HA shall have a table that may have 'S' key received from home RADIUS servers. Each key in the table shall also have lifetime set by home RADIUS server. Upon receipt of IKE handshake request from PDSN, HA shall make the pre-shared key by KeyID (Annext C), and 'S' key. HA shall check the 'S' key table indexed by Home RADIUS server shall request a secret key 'S' from the home RADIUS server in an Access Request by using a concatenation of the PDSN's care of address and home agent address placed in the user name attribute. The security of the Home Agent and Radius server is outside the server is outside |
| Motorola | 31 | 19 | 6.3.4 | Τ | Current text: User-Name (1) = MN-NAI field in the MN-NAI Extension CHAP-Password (3) = High-order byte of the Challenge Field in the MN-FA Challenge Extension, followed by the Authenticator field from the MN-AAA Extension CHAP-Challenge (60) = MD5 (Preceding MIP RRQ, Type, Length, SPI), followed by the least-order 237 bytes of the Challenge Field in the MN-FA Challenge Extension. The MD5 checksum is computed over the MIP RRQ data preceding the MN-AAA Extension and the Type, Length, SPI fields of the MN-AAA Extension. Proposed change: User-Name (1) = MN-NAI field in the MN-NAI Extension CHAP-Password (3) = CHAP Ident field = High-order byte of the Challenge Field in the MN-FA Challenge Extension String field = Authenticator field from the MN-AAA Extension CHAP-Challenge (60) = MD5 (Preceding MIP RRQ, Type, Length, SPI), followed by the least-order 237 bytes of the Challenge Field in the MN-FA Challenge Extension. The MD5 checksum is computed over the MIP RRQ data preceding the MN-AAA Extension and the Type, Length, SPI fields of the MN-AAA Extension and the Type, Length, SPI fields of the MN-AAA Extension. |
| Samsung | 31 | 33 | 64 | Т | Rationale: SNMP is not necessary |

| Source (Company Name)Page (Intermediated Structure)LineSectionTypeCommentName)Image: Section of the s | 2. | 3. | 4. | 5. | 6. | 8. |
|--|--------------------|------|--------------|--------------|------|---|
| Name Old Text: The Home RADIUS server shall also support sending of the Pre-Shared-Secret and the KeyID to the HA using the SNMP event notification procedures. New Text: The Home RADIUS server shall also support sending of the secret 'S' Key and its lifetime to the HA using the RADIUS Access Accept message. 3Com 31 37 6.4 F. Delete comma after "support". QC 33 28 6.5.2.3 O Need an RFC number for [FAC]. QC 33 32 6.5.2.3 O Need an RFC number for [FAC]. QC 33 32 6.5.2.3 O Because advertisements are rarely sent to save air resources, the mobile station should use the challenge value contained in the most recent last received IRP in the case of re-registrations as described in [FAC]. Ericsson 34 48 7.2 E Add a bullet between line 43 and 49: muthentication by the RADIUS infrastructure 3Com 37 8.1 E Delete comma after "support". TTC 37 8.1 E Delete comma after "support". TTC 37 8.1 E Delete comma after "support". TTC 37 9.1 E Add comma after "support". | Source (Company | Page | Line | Section | Туре | Comment |
| SolutionSolutio | Name) | | | | | Old Taxt: The Home PADIUS server shall also support sending of the |
| Add soft and the former and the for | | | | | | <i>Pre-Shared-Secret</i> and the <i>KevID</i> to the HA using the SNMP event |
| SolutionNew Text: The Home RADIUS server shall also support sending of the secret 'S' key and its lifetime to the HA using the RADIUS Access Accept message.3Com31376.4EDelete comma after 'support''.QC33286.5.2.3ONeed an RFC number for [FAC].QC33326.5.2.3ONeed an RFC number for [FAC].QC33326.5.2.3ONeed an RFC number for [FAC].QC33326.5.2.3ORecause advertisements are rarely sent to save are resources, the mobile station should use the challenge value contained in the most resemt last received RRP in the case of re-registrations as described in [FAC].Ericsson34487.3TAdd a bullet between line 48 and 49: authentication by the RADIUS infrastructure3Com3578.1EDelete comma after "support".3TC78.1EDelete comma after "support".3Com37259.1EOld text: Table 5 in section 9.3FUITSU37259.1EOld text: Table 5 in section 9.3FUITSU389.2.271. All the denaled specifications of airlink records should be removed since IOSV4.1 has included all the detailed accounting specifications required as per TSGP request.Nortel3839.2.2CTable 2: Delete rows for f3 and f4.The changes brought up to the addendum should be liniced to TSG-A.Table 2: Delete rows for f3 and f4.The changes brought up to the addendum should be face | | | | | | notification procedures. |
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| FUJITSU37259.1ESection 9.4 should be Section 9.3Ericsson389.2.1T1. All the detailed specifications of airlink records should be removed since IOSV4.1 has included all the detailed accounting specifications of airlink records should be removed since IOSV4.1 has included all the detailed accounting specifications required as per TSG-P request.Nortel389.2.20Table 2: Delete rows for f3 and f4.Networks89.2.20Table 2: Delete rows for f3 and f4.Notrel3839.2EDelete underline under period.SCom382.29.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382.6, 69.2E"R-P session ID" should be "R-P Session ID". ms", length=4, format=integer.Nortel39J9.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Nortel39ItemTable 5EAdd comma after "e.g.".Nortel409.30Delete rows f3 and F4.Networks409.30Delete rows f3 and F4. | Ericsson | 37 | 25 | 9.1 | E | Old text: Table 5 in section 9.4 |
| FUJITSU37259.1ESection 9.4 should be Section 9.3Ericsson389.2.1T1. All the detailed specifications of airlink records should be removed since IOSV4.1 has included all the detailed accounting specifications required as per TSG-P request. 9.2.4Nortel Networks389.2.2OTable 2: Delete rows for f3 and f4.Section 9.39.2.2OTable 2: Delete rows for f3 and f4.Nortel Networks389.2EDelete underline under period.32 Orm382.29.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382.6, & 2.99.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382.6, & 2.99.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Nortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.3Com39Item A1Table 5EAdd comma after "e.g.".Nortel Networks409.3ODelete rows F3 and F4.Nortel Networks409.3ODelete rows F3 and F4. | | | | | | New Text: Table 5 in section 9.3 |
| Ericsson389.2.1T1. All the detailed specifications of arrInk records should be removed since IOSV4.1 has included all the detailed accounting specifications required as per TSG-P request. The changes brought up to the addendum should be liaised to TSG-A.Nortel Networks389.2.2OTable 2: Delete rows for f3 and f4. These rows correspond to rate set. Rate set is now a subset of RC which contained in f9 and f10. f3 and f4 are therefore redundant.3Com3839.2EDelete underline under period.Ericsson382.29.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section of 2.2.166 of IOS V4.1)3Com382, 6, & 299.2E"R-P session ID" should be "R-P Session ID".Nortel Networks392.29.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Nortel Networks39Item A1Table 5EAdd comma after "e.g.".Nortel Networks409.3ODelete rows F3 and F4.Nortel Networks409.3ODelete rows F3 and F4. | FUJITSU | 37 | 25 | 9.1 | E | Section 9.4 should be Section 9.3 |
| 9.2.2 9.2.49.2.2 required as per TSG-P request. The changes brought up to the addendum should be liaised to TSG-A.Nortel Networks38 a9.2.2OTable 2: Delete rows for f3 and f4.3Com3839.2EDelete underline under period.Ericsson38229.2TAdd the following: Delatils specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382, 6, & 9.29.2ETable 2: Add the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382, 6, & 9.29.2E"R-P session ID" should be "R-P Session ID".Nortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Nortel Networks39Item ATable 5EAdd comma after "e.g.".3Com39Item A1Table 5EAdd comma after "e.g.".Nortel Networks409.3ODelete rows F3 and F4.Nortel Networks409.3ODelete rows F3 and F4. | Ericsson | 38 | | 9.2.1 | Т | 1. All the detailed specifications of airlink records should be removed |
| Nortel Networks389.2.49.2.4The changes brought up to the addendum should be liaised to TSG-A.Nortel Networks389.2.2OTable 2: Delete rows for f3 and f4. These rows correspond to rate set. Rate set is now a subset of RC which contained in f9 and f10. f3 and f4 are therefore redundant.3Com3839.2EDelete underline under period.Ericsson38229.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382, 6, & 299.2E"R-P session ID" should be "R-P Session ID".Nortel Networks392, 6, & 299.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Nortel Networks39LmP3.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.3Com39LmTable 5EAdd comma after "e.g.".Nortel Networks40P.3.3Q.Delete rows F3 and F4.Nortel Networks40P.3.3Q.Delete rows F3 and F4. | | | | 9.2.2 | | since IOSV4.1 has included all the detailed accounting specifications |
| Nortel Networks389.2.20Table 2: Delete rows for f3 and f4. These rows correspond to rate set. Rate set is now a subset of RC which contained in f9 and f10. f3 and f4 are therefore redundant.3Com3839.2EDelete underline under period.Ericsson38229.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382, 6, & 299.2E"R-P session ID" should be "R-P Session ID".3Com39299.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Nortel Networks39ItemTable 5EIn cdma2000, either or both the fundamental and/or DCCH may be present. Either one may be 5 or 20 ms frame size. By adding f14 and using in conjunction with f8, the accounting record can reflect whether fundamental and/or DCCH was present and which had 5 or 20 ms frames. Without f14, the accounting record is incomplete.3Com39ItemTable 5EAdd comma after "e.g.".Nortel Networks409.3ODelete rows F3 and F4.Nortel Networks409.3ODelete rows F3 and F4. | | | | 9.2.5 | | required as per $150-P$ request. The changes brought up to the addendum should be ligited to $TSG_{-}A$ |
| Notee33339.25Fabre 2. Detectors for 15 and 14.Networks3839.2EDelete underline under period.3Com38229.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382, 6, & 299.2ENortel | Nortal | 28 | [!] | 9.2.4 | 0 | Table 2. Delete rows for f3 and f4 |
| NetworksImage: Second seco | Networks | 50 | | 9.2.2 | U | 1 able 2. Delete 10ws 101 15 and 14. |
| 3Com3839.2EDelete underline under period.Ericsson38229.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382, 6, & 299.2E"R-P session ID" should be "R-P Session ID".Mortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Nortel Networks39J9.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.3Com39Item A1Table 5EAdd comma after "e.g.".Nortel Networks409.3ODelete rows F3 and F4. These rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and F10. F3 and E4 are therefore redundant. | THERMOIRS | | | | | These rows correspond to rate set. Rate set is now a subset of RC |
| 3Com3839.2EDelete underline under period.Ericsson38229.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382, 6, & 299.2E"R-P session ID" should be "R-P Session ID".Nortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Nortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.3Com39Item A1Table 5EAdd comma after "e.g.".3Com39Item A19.3ODelete rows F3 and F4. These rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and E4 are therefore redundant | | | | | | which contained in f9 and f10. f3 and f4 are therefore redundant. |
| Ericsson38229.2TAdd the following: Details specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382, 6, & 299.2E"R-P session ID" should be "R-P Session ID".Nortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Nortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.In cdma2000, either or both present. Either one may be 5 or 20 ms frame size. By adding f14 and using in conjunction with f8, the accounting record can reflect whether fundamental and/or DCCH was present and which had 5 or 20 ms frames. Without f14, the accounting record is incomplete.3Com39Item A1Table 5EAdd comma after "e.g.".Nortel Networks409.3ODelete rows F3 and F4. These rows correspond to rate set. Rate set is now a subset of RC which contained in E0 and E10. E3 and E4 are therefore redundant | 3Com | 38 | 3 | 9.2 | Е | Delete underline under period. |
| Image: Section of a specification of airlink records are found in IOSV4.1 (section 6.2.2.166 of IOS V4.1)3Com382, 6, & 299.2E"R-P session ID" should be "R-P Session ID".Nortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.In cdma2000, either or both the fundamental and/or DCCH may be present. Either one may be 5 or 20 ms frame size. By adding f14 and using in conjunction with f8, the accounting record can reflect whether fundamental and/or DCCH was present and which had 5 or 20 ms frames. Without f14, the accounting record is incomplete.3Com39Item A1Table 5ENortel Networks409.3ODelete rows F3 and F4. These rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and F10. F3 and F4 are therefore redundant | Ericsson | 38 | 22 | 9.2 | Т | Add the following: |
| Image: second | | | | | | Details specification of airlink records are found in IOSV4.1 (section |
| 3Com382, 6, & 299.2E"R-P session ID" should be "R-P Session ID".Nortel Networks39399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Networks39I9.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.In cdma2000, either or both the fundamental and/or DCCH may be present. Either one may be 5 or 20 ms frame size. By adding f14 and using in conjunction with f8, the accounting record can reflect whether fundamental and/or DCCH was present and which had 5 or 20 ms frames. Without f14, the accounting record is incomplete.3Com39Item A1Table 5ENortel Networks409.3ODelete rows F3 and F4. These rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and F10F3 and F4 are therefore redundant | | | | | | 6.2.2.166 of IOS V4.1) |
| Nortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Networks39I I I I9.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.In cdma2000, either or both the fundamental and/or DCCH may be present. Either one may be 5 or 20 ms frame size. By adding f14 and using in conjunction with f8, the accounting record can reflect whether fundamental and/or DCCH was present and which had 5 or 20 ms frames. Without f14, the accounting record is incomplete.3Com39Item A1Table 5ENortel Networks409.3ODelete rows F3 and F4. These rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and E10. F3 and E4 are therefore redundant | 3Com | 38 | 2, 6, | 9.2 | E | "R-P session ID" should be "R-P Session ID". |
| Nortel Networks399.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.Networks99.2.2TTable 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 ms)", length=4, format=integer.In cdma2000, either or both the fundamental and/or DCCH may be present. Either one may be 5 or 20 ms frame size. By adding f14 and using in conjunction with f8, the accounting record can reflect whether fundamental and/or DCCH was present and which had 5 or 20 ms frames. Without f14, the accounting record is incomplete.3Com39Item A1Table 5ENortel Networks409.3ODelete rows F3 and F4.These rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and F10. F3 and F4 are therefore redundant | | | & 29 | ļ | | |
| Networksms)", length=4, tormat=integer.In cdma2000, either or both the fundamental and/or DCCH may be present. Either one may be 5 or 20 ms frame size. By adding f14 and using in conjunction with f8, the accounting record can reflect whether fundamental and/or DCCH was present and which had 5 or 20 ms frames. Without f14, the accounting record is incomplete.3Com39Item A1Table 5ENortel Networks409.3ODelete rows F3 and F4.These rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and F10F3 and F4 are therefore redundant | Nortel | 39 | | 9.2.2 | Т | Table 2: Add row f14 with parameter "DCCH Frame Size (0/5/20 |
| Image: Second | Networks | | | | | ms)", length=4, format=integer. |
| In cdma2000, ether or both the fundamental and/or beech may be present. Either one may be 5 or 20 ms frame size. By adding f14 and using in conjunction with f8, the accounting record can reflect whether fundamental and/or DCCH was present and which had 5 or 20 ms frames. Without f14, the accounting record is incomplete.3Com39Item A1Table 5EAdd comma after "e.g.".Nortel Networks409.3ODelete rows F3 and F4.These rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and F10. F3 and F4 are therefore redundant | | | | | | In a low-2000 either or both the fundamental and/or DCCH may be |
| 3Com39Item A1Table 5EAdd comma after "e.g.".Nortel Networks409.3ODelete rows F3 and F4. | | | | | | In coma2000, either or both the fundamental and/of DCCH may be present. Fither one may be 5 or 20 ms frame size. By adding f14 and |
| adding in conjunction with b, the decounting record can refere whetherfundamental and/or DCCH was present and which had 5 or 20 ms frames. Without f14, the accounting record is incomplete.3Com39Item A1Table 5ENortel Networks409.3ODelete rows F3 and F4.These rows correspond to rate set. Rate set is now a subset of RC | | | | | | using in conjunction with f8 the accounting record can reflect whether |
| 3Com 39 Item A1 Table 5 E Add comma after "e.g.". Nortel Networks 40 9.3 O Delete rows F3 and F4. | | | | | | fundamental and/or DCCH was present and which had 5 or 20 ms |
| 3Com 39 Item Table 5 E Add comma after "e.g.". Nortel 40 9.3 O Delete rows F3 and F4. Networks 9.3 O Delete rows correspond to rate set. Rate set is now a subset of RC which contained in E0 and E10. E3 and E4 are therefore redundant | | | | | | frames. Without f14, the accounting record is incomplete. |
| A1 Delete rows F3 and F4. Nortel 40 Networks 9.3 O Delete rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and F10. F3 and F4 are therefore redundant | 3Com | 39 | Item | Table 5 | Е | Add comma after "e.g.". |
| Nortel 40 9.3 O Delete rows F3 and F4. Networks 9.3 O Delete rows correspond to rate set. Rate set is now a subset of RC which contained in F0 and F10. F3 and F4 are therefore redundant | | | A1 | | | |
| Networks These rows correspond to rate set. Rate set is now a subset of RC which contained in E0 and E10. E3 and E4 are therefore redundant | Nortel | 40 | | 9.3 | 0 | Delete rows F3 and F4. |
| These rows correspond to rate set. Rate set is now a subset of RC which contained in E0 and E10. E3 and E4 are therefore redundant | Networks | | | | | |
| | | | | | | These rows correspond to rate set. Rate set is now a subset of RC which contained in EQ and E10. E2 and E4 are therefore redundant |

| 2. | 3. | 4. | 5. | 6. | 8. |
|-----------|------|--------------|----------------------|------|---|
| Source | Page | Line | Section | Туре | Comment |
| (Company | | | | | |
| Name) | | | | | |
| Nortel | 40 | | 9.3 | Т | Add row F14 with parameter "DCCH Frame Size" and description |
| Networks | | | | | "The dedicated signaling channel has the choice of 5 or 20 ms size. |
| | | | | | The Sms frame size allows fast response from short signaling messages |
| | | | | | (snort frame can be decoded quickly). However, depending on the |
| | | | | | configuration, the DCCH may not be present. |
| | | | | | In cdma2000, either or both the fundamental and/or DCCH may be |
| | | | | | present. Either one may be 5 or 20 ms frame size. By adding F14 and |
| | | | | | using in conjunction with F8, the accounting record can reflect whether |
| | | | | | fundamental and/or DCCH was present and which had 5 or 20 ms |
| | | | | | frames. Without F14, the accounting record is incomplete. |
| QC | 40 | D4 | 9.3 | 0 | In the third column, replace "base ID" with "Base Station ID". |
| QC | 40 | G14 | 9.3 | 0 | Clarify the second column as follows: |
| | | ļ' | | | Number of HDLC-layer bytes received |
| SK | 40 | | 9.3 | 0 | Add text after G1 with |
| Telecom | | | | | "This includes PPP bytes without HDLC-like framing. (Exclude flags, |
| | | | | | Address, Control, FCS fields, Control Escaping Characters) |
| | | | | | Excludes PPP Control Messages. (LCP, Authentication, IPCP) Other Control Messages (Agent Advertisement, Mobile IP Registration |
| | | | | | Renly) |
| | | | | | Add text after G2 with |
| | | | | | This includes PPP bytes without HDLC-like framing. (Exclude flags, |
| | | | | | Address, Control, FCS fields, Control Escaping Characters) |
| | | | | | Excludes PPP Control Messages. (LCP, Authentication, IPCP) |
| | | | | | Other Control Messages (Agent Solicitation, Mobile IP Registration |
| | | | | | Request) |
| | | | | | See uploaded document "P00-20001204-018R1-SKTelecom- |
| | | | | | OctetCount.doc" |
| 0 | 40 | | 0.2 | T | |
| Samsung | 40 | | 9.3 Tabla 5 | 1 | Rationale: It caused lots of confusion for carriers. |
| | | | G1 | | between HDLC flags before escaping |
| | | | 01 | | New Text: total # of IP packet octets sent to the user. This excludes |
| | | | | | HDLC flags, Address, Control, Protocol, FCS fields, escape |
| | | | | | characters, and the LCP and NCP packets |
| Samsung | 40 | | 9.3 | Т | Rationale: It caused lots of confusion for carriers |
| C | | | Table 5 | | Old Text: total # of octets sent to the user. This includes the bytes |
| | | | G2 | | between HDLC flags before escaping |
| | | | | | New Text: total # of IP packet octets sent to the user. This excludes |
| | | | | | HDLC flags, Address, Control, Protocol, FCS fields, escape |
| NEC | 10 | ! | T 11 T | | characters, and the LCP and NCP packets |
| NEC | 40 | | Table 5 | | In descriptions of G1, G2 and G3 $\#$ could be changed to 'number' for keeping consistency with others (G0 $-$ G12) |
| Nortal | 40 | 24 | 0.2 | т | Add C2 in table 5 |
| Notworks | 40 | 24 | 9.5 | 1 | Add C5 III table 5 Itom Parameter Description |
| INCLWOIKS | | | | | C3 Session Continue This attribute when set to 'true' means it |
| | | | | | is not the end of a |
| | | | | | Session and an Accounting Stop is |
| | | | | | immediately followed |
| | 42 | 5 | 9.4 | Т | By a start Record. 'False' means end of a |
| | | | | | session. |
| | | | | | Add C3 in table 6 |

| 2. Source | 3. Page | 4. Line | 5. Section | 6. Туре | 8. Comment |
|-------------------|------------|------------|----------------|------------|--|
| (Company Name) | | | | | |
| | | | | | Item Parameter Type Maximum Format Field |
| | 45 | 50 | 051 | т | Special Values Peyload Longth |
| | 43 | 50 | 9.5.1 | 1 | C3 Session Continue 26/46 4 integer 3GPP2 |
| | | | | | 0=False, 1=True |
| | 46 | 19 | 9.5.3 | Т | Session_cont |
| | 16 | 15 | 055 | т | Or, add a Session Continue attribute in the UDR with the value set to 1 |
| | 40 | | 2.3.5 | 1 | Send a RADIUS Accounting-Request Stop record based on the current |
| | 47 | 33 | 959 | т | UDR. |
| | 47 | 55 | 9.5.9 | 1 | Add a Session Continue attribute in the UDR with the value set to 0 |
| | | | | | (False). Send a RADIUS Accounting-Request Stop record based on the |
| | 47 | 46 | 9510 | т | current UDR. |
| | | -10 | 2.5.10 | 1 | Or, add a Session Continue attribute in the UDR with the value set to 1 |
| | | | | | (True). Send a RADIUS Accounting-Request Stop record based on the |
| | | | | | current UDR. |
| | | | | | When the Stop Record Trigger initiates, the PDSN shall add a Session |
| | | | | | Continue attribute in the UDR with the value set to 1 (True). Then the |
| | | | | | the current UDR. |
| | | | | | |
| | | | | | Or, add a Session Continue attribute in the UDR with the value set to 1 |
| | | | | | Send a RADIUS Accounting-Request Stop record based on the current |
| | | | | - | UDR. |
| FUJITSU | 41 44 | | Table 5, 14 | Е | TIA document numbering should be 3GPP2 document numbering to keep consistency with others |
| | 48 | 3, 5 | Table 6, | | |
| | 4.4 | - | I4 | | |
| Ericsson | 41 | 5 | 9.4 | Т | Remove the following line: RN parameters transmitted across the RP interface shall follow the |
| | | | | | RADIUS format. |
| Nortel | 42 | | 9.4 | 0 | Delete rows F3 and F4. |
| Networks | | | | | These rows correspond to rate set. Rate set is now a subset of RC |
| | | | | | which contained in F9 and F10. F3 and F4 are therefore redundant. |
| QC | 42 | D4 | 9.4 | 0 | In the last column, replace "base ID" with "Base Station ID". |
| Nortel | 43 | | 9.4 | Т | Add row F14 with parameter "DCCH Frame Size", type=26/14, |
| INELWORKS | | | | | "0=no DCCH. 1=5 msec frame. 2=20 msec frame" |
| | | | | | |
| | | | | | In cdma2000, either or both the fundamental and/or DCCH may be present. Fither one may be 5 or 20 ms frame size. By adding E14 and |
| | | | | | using in conjunction with F8, the accounting record can reflect whether |
| | | | | | fundamental and/or DCCH was present and which had 5 or 20 ms |
| NT aut a 1 | 42 | | 0.4 | 0 | frames. Without F14, the accounting record is incomplete. |
| Nortel | 43 | | 9.4 | 0 | Kow H1 special values should be "currently undefined" |
| Cisco | 43 | ?? | 9.4 | Т | Parameter: F13 Release Indicator |

| 2 | 3 | 4 | 5 | 6 | 8 |
|--------------------|-------|------------|-------------------|------------|--|
| 2. Source | Page | Line | Section | о. Туре | Comment |
| (Company Name) | - "go | | | -580 | |
| | | | | | Clarification needed for Values: |
| | | | | | 3=PPP protocol failure |
| | | | | | 4=PPP abnormal release |
| | | | | | Note: Under what conditions the above mentioned values would be |
| | | | | | used is not clear. Recommend removing these two values. |
| QC | 43 | G14 | 9.4 | 0 | Clarify the second column as follows: |
| | | | | | Number of HDLC-layer bytes received |
| Nortel Networks | 44 | | 9.4 | 0 | Row I2 special values should be "currently undefined" |
| TTC | 45 | | | E | Page 45; Add a blank line between line 2 and 3. |
| 3Com | 45 | 15 | 9.5 | E | Change "pairs" to "pair". |
| 3Com | 45 | 18 | 9.5 | E | Change "correlation" to "Correlation". |
| 3Com | 45 | 20 | 9.5 | E | Change "Accounting session ID" to "Account Session ID". |
| 3Com | 45 | 22 | 9.5 | E | Change "RP session ID" to "R-P Session ID". |
| 3Com | 45 | 37 | 9.5 | E | Change "D D assign ID" to "D D Sassign ID" |
| SCOM | 43 | 25, 26, | 9.5 | Е | Change K-P session ID to K-P Session ID. |
| 2Com | 16 | & 27 21 | 054 | Б | Add period at and of line |
| Cisco | 40 | 31 | 9.3.4 | Е Т | Add period at end of fine. |
| CISCO | 40 | 51 | 9.5.4 | 1 | layer |
| KDDI | 46 | 31 | 9.5.4 | E | PPP replaced with HDLC |
| SK Telecom | 46 | 40 | 9.5.5 | Т | Replace with "Otherwise, if airlink record indicates parameters E1, or I4 have changed," by "Otherwise, if airlink record indicates parameters E1 E1 E2 or I4 have changed." |
| | | | | | See uploaded contribution "P00-20001204-017-SKTelecom- MuxOption.doc" |
| 3Com | 46 | 50 | 9.5.5 | Е | Change "Accounting" to "Account". |
| 3Com | 47 | 7 | 9.5.7 | Е | Change period to colon at end of line. |
| 3Com | 47 | 25 | 9.5.9 | Е | Change "records" to "record". |
| 3Com | 47 | 35 & 49 | 9.5.9 & 9 5 10 | Е | Change "Accounting" to "Account". |
| 3Com | 48 | 6 & 7 | 10 | Е | Add comma after "i.e." and "e.g.", respectively. |
| QC | 49 | 34 | 11.1 | 0 | Replace "A.S0001" by "TIA/EIA/IS-2001-A". |
| Ericsson | 51 | 18 | Annex | 0 | Add Main Mode as an option for the ISAKMP fixed header of Phase 1. |
| | | | А | | The sentence should read: |
| | | | | | "The ISAKMP Fixed Header may indicate a Main Mode or Aggressive |
| | | | | | Mode exchange for Phase 1 ISAKMP, Quick Mode for all Phase 2 |
| | | | | | exchanges, or an Informational exchange to pass notification regarding security lifetimes. |
| HITACHI | 51 | 22 | Annex | E | Delete colon(:) after subtitle to keep consistency others subtitles |
| | 52 | 30 3 | Α | | |
| Ericsson | 51 | 26 | Annex A | Е | Add underscore so that "SIT IDENTITY ONLY" becomes "SIT IDENTITY ONLY" |
| NEC | 51 | 28 | Annex | Е | Standards -> standards |
| | | _ | Α | | |
| Ericsson | 51 | 34 | Annex | 0 | Remove mention of using ESP for the ISAKMP SA created in Phase 1. |
| | | | A | 1 | The following sentence should be removed: |

| 2. Source | 3. Page | 4. Line | 5. Section | 6. Type | 8. Comment |
|-------------------|------------|------------|---------------|------------|---|
| (Company Name) | 1 450 | Lint | betton | 1,150 | |
| | | | | | "Service provider owned HAs will support IPsec ESP (using 3DES) for the ISAKMP SA." |
| Ericsson | 51 | 51 | Annex A | Т | If the Home RADIUS indicates a request for no security on the IP-in- IP tunnelled packets, do not delete existing SAs. The sentence should read: "If the Home RADIUS indicates a request for no security on the IP-in- IP tunnelled packets, the PDSN shall not delete existing IPsec security |
| | | | | | associations to the HA. This is because IPsec should be authorized per PDSN-HA pair and thus other mobiles may be using those IPsec security associations." |
| TTC | 52 | | | Е | Page 52; Add a blank line between line 20 and 21. |
| Ericsson | 52 | 4 | Annex A | 0 | Add a sentence which reads: |
| | | | | | "For Phase 1, the PDSN shall use KEY_IKE as the transform identifier." |
| Ericsson | 52 | 5 | Annex A | 0 | Specify that this paragraph applies to Phase 2. The sentence should read: |
| | | | | | "For Phase 2 Quick Mode exchange, the PDSN shall minimally support the ESP_3DES transform identifier within a Transform Payload for IPsec ESP Proposal Payload. It must also support both HMAC-MD5 and HMAC-SHA as transform identifiers within a Transform payload for IPsec AH Proposal Payload." |
| Ericsson | 52 | 10 | Annex A | 0 | There are 3 messages used in the Quick Mode exchange, mention that Main Mode uses 6 messages: The sentence should read: |
| | | | | | "The PDSN and HA IP security negotiations should complete within six messages for a Main Mode exchange and three messages for Aggressive Mode and Quick Mode exchanges." |
| 3Com | 52 | 20 | Annex A | Е | Add <cr> at end of line.</cr> |
| Ericsson | 52 | 26 | Annex A | 0 | This section should be re-written as follows: |
| | | | | | "For Phase 1 negotiation, the PDSN must set the Protocol-Id field to zero or UDP. The port number must be set to zero or 500. If the HA receives any other values for these two fields in the Identification Payload, IKE negotiation must be aborted. |
| | | | | | For IKE authentication using preshared key, the PDSN and HA shall minimally support ID_IPV4_ADDR in the ID Type field. For IKE authentication using Revised Public Key Encryption with RSA using X.509 certificates, the PDSN and HA shall minimally support ID_DER_ASN1_DN in the ID Type field. |
| | | | | | For Phase 2 (Quick Mode), both the PDSN and HA may include the client identifiers in the form of optional Client Identification Payloads as specified in IKE (ie. IDci and IDcr). Two separate Quick Mode negotiations must be performed to establish two different types of IPsec security associations between the PDSN and HA to protect mobile IP control messages and tunnelled user data. |

| 2. | 3. | 4. | 5. | 6. | 8. |
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| Name) | | | | | E - ID |
| | | | | | For IPsec security for MobileIP control packets, the PDSN and HA |
| | | | | | and port number to 434 for both IDci and IDcr. |
| | | | | | For IPsec on the user's tunnelled data, the PDSN and the HA exchange |
| | | | | | client identification identifying a tunnel protocol type that matches the |
| | | | | | encapsulation type requested by the mobile station's RRO. |
| Ericsson | 52 | 26 | Annex | 0 | This section should be re-written as follows: |
| | | | А | | |
| | | | | | "For Phase 1 negotiation, the PDSN must set the Protocol-Id field to |
| | | | | | zero or UDP. The port number must be set to zero or 500. If the HA |
| | | | | | Payload, IKE negotiation must be aborted. |
| | | | | | For IKE authentication using preshared key, the PDSN and HA shall |
| | | | | | minimally support ID KEY ID in the ID Type field. For IKE |
| | | | | | authentication using Revised Public Key Encryption with RSA using |
| | | | | | X.509 certificates, the PDSN and HA shall minimally support |
| | | | | | ID_DER_ASN1_DN in the ID Type field. |
| | | | | | For Phase 2 (Quick Mode), two separate Quick Mode negotiations |
| | | | | | must be performed to establish two different types of IPsec security |
| | | | | | associations between the PDSN and HA to protect mobile IP control |
| | | | | | messages and tunnelled user data. Both the PDSN and HA shall include the client identifiers in the form of optional Client |
| | | | | | Identification Payloads as specified in IKE (i.e. IDci and IDcr) |
| | | | | | identification 1 ayloads as specified in IKE (ic. iDer and iDer). |
| | | | | | For IPsec security for MobileIP control packets, the PDSN and HA |
| | | | | | shall exchange IDci and IDcr. The protocol field shall be set to UDP |
| | | | | | and port number to 434 for both IDci and IDcr. |
| | | | | | IDC1: Protocol field=UDP,Port=434,Idtype=ID_KEY_ID, |
| | | | | | IDCr: Protocol field_UDP Port_434 Idtype_ID KEV ID |
| | | | | | Identification_data=HA_IPV4_ADDR |
| | | | | | For IPsec on the user's tunnelled data, the PDSN and the HA exchange |
| | | | | | client identification identifying a tunnel protocol type that matches the |
| | | | | | encapsulation type requested by the mobile station's RRO. Example of |
| | | | | | IDCi and IDCr values when IP-IP tunnel is used are: |
| | | | | | IDCi: Protocol field=IP-IP,Idtype=ID_KEY_ID, |
| | | | | | Identification_data=PDSN_IPV4_ADDR |
| | | | | | IDCr: Protocol field=IP-IP,Idtype=ID_KEY_ID, |
| | | | | | Identification_data=HA_IPV4_ADDR |
| TTC | 54 | | | Е | Page 54, lines 21 and 22; <u>HA or PDSN -> PDSN or HA</u> , <u>HA and</u> <u>PDSN</u> -> <u>PDSN and HA</u> |
| NEC | 55 | 12 | Annex B | E | Replace carrier CA with service provider CA |
| NEC | 55 | 17 | Annex | Е | Add s after provider |
| | | | В | | r · · · · · |
| NEC | 58 | | | E | 2 formats should keep consistency with the format shown in page 56. |
| | | | | | Accounting container is shown by octal. |
| 3Com | 59 | 1 | Annex | E | Add <cr> after "RADIUS Accounting" and make line Heading 1</cr> |

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| | | | D | | format. |