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**3RD GENERATION
PARTNERSHIP
PROJECT 2
"3GPP2"**

Interworking Specification for cdma2000 1x and High Rate Packet Data Systems

Revision 0

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NOTE: This is a replacement version of C.S0075-0 Version 1.0. This version changes TSB-58 from Normative to Informative.

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FOREWORD**(This foreword is not part of this Standard)**

This Standard was prepared by Technical Specification Group C of the Third Generation Partnership Project 2 (3GPP2). This Standard contains the air interface requirements for facilitating interworking between cdma2000^{®1} HRPD and 1x systems. This specification applies to 1x Release 0 or higher mobile stations and base stations. This specification applies to all releases of HRPD access terminals and access networks.

This is a supplementary specification to the 1x and HRPD air interface specifications.

This Standard consists of the following sections:

1. General. This section defines the acronyms and terms used in this document.

2. HRPD Notification in a 1x System. This section defines the procedures for notifying a mobile station of the arrival of mobile terminated data on the HRPD system.

3. HRPD System Information. This section defines the format and corresponding procedures for the *Alternative Technologies Information Message*.

¹ cdma2000[®] is the trademark for the technical nomenclature for certain specifications and standards of the Organizational Partners (OPs) of 3GPP2. Geographically (and as of the date of publication), cdma2000[®] is a registered trademark of the Telecommunications Industry Association (TIA-USA) in the United States.

NOTES

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1. Compatibility, as used in connection with this Standard, is understood to mean: Any mobile station is able to place and receive calls. Conversely all base stations are able to place and receive calls for any mobile station.
2. Those wishing to deploy systems compliant with this standard should also take notice of the requirement to be compliant with the applicable rules and regulations of local administrations.
3. "Base station" refers to the functions performed on the land side, which are typically distributed among a cell, a sector of a cell, and a mobile switching center.
4. "Shall" and "shall not" identify requirements to be followed strictly to conform to the standard and from which no deviation is permitted. "Should" and "should not" indicate that one of several possibilities is recommended as particularly suitable, without mentioning or excluding others, that a certain course of action is preferred but not necessarily required, or that (in the negative form) a certain possibility or course of action is discouraged but not prohibited. "May" and "need not" indicate a course of action permissible within the limits of the standard. "Can" and "cannot" are used for statements of possibility and capability, whether material, physical, or causal.
5. Footnotes appear at various points in this Standard to elaborate and further clarify items discussed in the body of the Standard.
6. Unless indicated otherwise, this Standard presents numbers in decimal form. Binary numbers are distinguished in the text by the use of single quotation marks.
7. The following operators define mathematical operations:
 - \times indicates multiplication.
 - $\lfloor x \rfloor$ indicates the largest integer less than or equal to x : $\lfloor 1.1 \rfloor = 1$, $\lfloor 1.0 \rfloor = 1$.
 - $\lceil x \rceil$ indicates the smallest integer greater or equal to x : $\lceil 1.1 \rceil = 2$, $\lceil 2.0 \rceil = 2$.
 - $|x|$ indicates the absolute value of x : $|-17| = 17$, $|17| = 17$.
 - \oplus indicates exclusive OR (modulo-2 addition).
 - $\min(x, y)$ indicates the minimum of x and y .
 - $\max(x, y)$ indicates the maximum of x and y .
 - $x \bmod y$ indicates the remainder after dividing x by y : $x \bmod y = x - (y \times \lfloor x/y \rfloor)$.
 - $\text{weight}(x)$ indicates the number of '1's in the binary representation of x .
 - \gg indicates binary right shift operation.
 - \ll indicates binary left shift operation.
8. The following indentation is advised:
 - No indentation

- 1 • bullet 1
- 2 – bullet 2
- 3 + bullet 3.
- 4 o bullet 4.
- 5 ◇ bullet 5.
- 6 – bullet 6.
- 7 + bullet 7.
- 8

1 **REFERENCES**

2 The following standards contain provisions which, through reference in this text, constitute
3 provisions of this Standard. At the time of publication, the editions indicated were valid. All
4 standards are subject to revision, and parties to agreements based on this Standard are
5 encouraged to investigate the possibility of applying the most recent editions of the
6 standards indicated below.

- 7
1. C.S0024, *cdma2000 High Rate Packet Data Air Interface*²
 2. C.S0005, *Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems*³
 3. C.R1001, *Administration of Parameter Value Assignments for cdma2000 Spread Spectrum Standards* [*Informative Reference*](#)
 4. C.S0004, *Signaling Link Access Control (LAC) Standard for cdma2000 Spread Spectrum Systems*
 5. C.S0057, *Band Class Specification for cdma2000 Spread Spectrum Systems*

² This specification applies to all releases of HRPD access terminals and access networks

³ This specification applies to 1x Release 0 or higher mobile stations and base stations

1 GENERAL

1.1 Acronyms and Abbreviations

CDMA. Code Division Multiple Access

HRPD. High Rate Packet Data

MC. Multi Carrier (1x and 3x).

PDSN. Packet Data Service Node

1.2 Terms

Access Network. The network equipment providing data connectivity between a packet switched data network (typically the Internet) and an access terminal.

Access Terminal. A device providing data connectivity to a user. An access terminal may be connected to a computing device such as a laptop personal computer or it may be a self-contained data device such as a personal digital assistant.

Base Station. A fixed station used for communicating with mobile stations. Depending upon the context, the term base station may refer to a cell, a sector within a cell, an MSC, or other part of the wireless system.

Code Division Multiple Access (CDMA). A technique for spread-spectrum multiple-access digital communications that creates channels through the use of unique code sequences.

Mobile Station. A station in the Public Wireless Radio Telecommunications Service intended to be used while in motion or during halts at unspecified points. Mobile stations include portable units (e.g., hand-held personal units) and units installed in vehicles. The mobile station consists of two parts – ME and UIM.

1.3 Numeric Information

Numeric information is used to describe the operation of the mobile station. The following subscripts are used to clarify the use of the numeric information:

- “s” indicates a value stored in the mobile station’s temporary memory.
- “sv” indicates a stored value that varies as the mobile station processes various tasks.
- “sl” indicates the stored limits on values that vary.
- “r” indicates a value received by the mobile station over a forward analog control channel or a CDMA Forward Channel.
- “p” indicates a value set in the mobile station’s permanent security and identification memory.
- “s-p” indicates a value stored in the mobile station’s semi-permanent security and identification memory.

1 1.3.1 CDMA Numeric Information

2 The following are internal values that are stored by the mobile station in temporary memory
3 that are not sent over the air.

4 **ATIM_MSG_SEQ_s** – *Alternative Technologies Information Message* sequence number.

2 HRPD NOTIFICATION IN A 1X SYSTEM

When a mobile station capable of HRPD operation is operating on a 1x system, it may not monitor the HRPD system. The requirements in this section define the procedures for notifying a mobile station of the arrival of mobile terminated data on the HRPD system.

2.1 Mobile Station Requirements

The mobile station shall comply with the requirements specified in [2] unless specified otherwise in this section.

2.1.1 Service Option 59 Page Notification

If the mobile station detects a page match and the SERVICE_OPTION field in the page message (e.g., in a *General Page Message*) is set to either 0x003B (59 decimal) or to 0x59zz, where zz is interpreted as the hexadecimal representation of an 8-bit HRPD ReservationLabel associated with an IP flow that triggered the HRPD paging notification (see [3]), the mobile station shall perform the following:

- If the mobile station accepts the HRPD notification specified by this page, then in response to this page the mobile station shall tune to the HRPD system and establish an HRPD connection as specified in [1].
- Otherwise, the mobile station shall process the page message as specified in [2] and send a *Page Response Message* with the SERVICE_OPTION field set to '0000000000000000'.

2.1.2 Service Option 69 Page Notification

If the mobile station detects a page match and the SERVICE_OPTION field in the page message (e.g., in a *General Page Message*) is set to either 0x0045 (69 decimal) or to 0x69zz, where zz is interpreted as the hexadecimal representation of an 8-bit HRPD ReservationLabel associated with an IP flow that triggered the HRPD paging notification (see [3]), the mobile station shall perform the following:

- If the mobile station accepts the HRPD notification specified by this page, then in response to this page the mobile station shall perform the following:
 - The mobile station shall process the page message as specified in [2]⁴ and send a *Page Response Message* with the SERVICE_OPTION field set to the same value received in the page message.
 - After receiving confirmation of delivery of the *Page Response Message*, the mobile station shall tune to the HRPD system and establish an HRPD connection as specified in [1].

⁴ While waiting for confirmation of delivery of the *Page Response Message*, the mobile station need not process L3 fields of received messages as defined in [2]. While waiting for confirmation of delivery of the *Page Response Message*, receipt of a *Channel Assignment Message* or an *Extended Channel Assignment Message* is to be treated as confirmation of delivery of the *Page Response Message*.

- 1 • Otherwise, the mobile station shall perform the following:
 - 2 – The mobile station shall process the page message as specified in [2] and send a
 - 3 *Page Response Message* with the SERVICE_OPTION field set to
 - 4 '0000000000000000'.

5 2.1.3 Data Burst Message with Burst Type 000111 on f-dsch

6 If the mobile station receives a *Data Burst Message* with the BURST_TYPE field set to '000111'
7 on f-dsch (see [3]), the mobile station shall perform the following:

- 8 • If the mobile station accepts the HRPD notification specified by this message, the
- 9 mobile station shall tune to the HRPD system and establish an HRPD connection in
- 10 response to this message as specified in [1].
- 11 • If the mobile station does not accept the HRPD notification specified by this message, it
- 12 shall send a *Mobile Station Reject Order* with ORDQ field set to '00000111' (message
- 13 cannot be handled by the current mobile station configuration).

14 2.1.4 Data Burst Message with Burst Type 000111 on f-csch

15 If the mobile station receives a *Data Burst Message* with the BURST_TYPE field set to '000111'
16 on f-csch (see [3]), the mobile station shall ignore the message.

17 2.1.5 Response to Service Option Capability Query

18 The mobile station shall support service option 0x003B (59 decimal), service option 0x0045 (69
19 decimal), service options 0x59zz, and service options 0x69zz, where zz is interpreted as the
20 hexadecimal representation of an 8-bit HRPD ReservationLabel.

21 If the mobile station receives a *Status Request Message* or an *Extended Status Request Message*
22 with a Service Option Information record, an Extended Service Option Information record, a
23 Terminal Information record, or an Extended Terminal Information record, the mobile station
24 shall report its service option capability as specified in [2] as follows:

- 25 • The mobile station shall report service option 0x003B (59 decimal).
- 26 • The mobile station shall not report service option 0x0045 (69 decimal) or any of the
- 27 service options 0x59zz or 0x69zz, where zz is interpreted as the hexadecimal
- 28 representation of an 8-bit HRPD ReservationLabel.

29 **2.2 Base Station Requirements**

30 The requirements in this section apply to a 1x base station. The base station shall comply with
31 the requirements specified in [2] unless specified otherwise in this section.

32 2.2.1 Data Burst Message with Burst Type 000111 on f-dsch

33 If the base station sends a *Data Burst Message* with the BURST_TYPE field set to 000111 on f-
34 dsch, the base station shall set the fields of the *Data Burst Message* as follows:

- 35 • The base station shall set MSG_NUMBER to '00000001'

- 1 • The base station shall set NUM_MSGS to '00000001'
- 2 • The base station shall set NUM_FIELDS to '00000000'

3 2.2.2 Data Burst Message with Burst Type 000111 on f-csch

4 The base station shall not send a *Data Burst Message* with the BURST_TYPE field set to
5 '000111' on f-csch (see [3]).

1

2 No text.

3

3 HRPD SYSTEM INFORMATION

3.1 Mobile Station Requirements

When a mobile station complying with this specification is operating with a base station with P_REV of 6 or higher, the mobile station may receive an *Alternative Technologies Information Message* as an overhead message from this base station. The requirements specified in [2] for processing an overhead message shall apply to this message, with the following exception: the mobile station need not receive this message in order to declare that all overhead messages are current⁵. The requirements for initialization of sequence number ATIM_MSG_SEQ_S shall be as specified in [2] for other overhead message sequence numbers⁶.

Whenever a valid *Alternative Technologies Information Message* is received on the current Paging Channel or Primary Broadcast Control Channel, the configuration message sequence number, CONFIG_MSG_SEQ_R shall be compared to that stored in ATIM_MSG_SEQ_S. If the comparison results in a match, the mobile station may ignore the message. If the comparison results in a mismatch, then the mobile station shall process the remaining fields in the message as follows.

The mobile station shall store the following parameters:

- Configuration message sequence number
(CONFIG_MSG_SEQ_S = CONFIG_MSG_SEQ_R,
ATIM_MSG_SEQ_S = CONFIG_MSG_SEQ_R).

If RADIO_INTERFACE_TYPE = '0010' (HRPD), the mobile station shall perform the following:

- The mobile station shall store the HRPD Subnet Color Code if included
(SUBNET_COLOR_CODE_S = SUBNET_COLOR_CODE_R)
- If NUM_HRPD_NGHBR_R is not equal to 0, the mobile station shall set NUM_HRPD_NGHBR_S to NUM_HRPD_NGHBR_R. For each of the neighboring HRPD systems contained in the *Alternative Technologies Information Message*, the mobile station shall perform the following:
 - Set the PN field of HRPD_NGHBR_LIST[i] to the ith occurrence of NGHBR_PN_R.
 - If NGHBR_FREQ_SAME_AS_PREV_R equals '0':
 - Set the BAND_CLASS field of HRPD_NGHBR_LIST[i] to NGHBR_BAND_R in the ith occurrence of the neighbor record.
 - Set the CDMA_FREQ field of HRPD_NGHBR_LIST[i] to NGHBR_FREQ_R in the ith occurrence of the neighbor record.
 - If NGHBR_FREQ_SAME_AS_PREV_R equals '1':

⁵ Since the mobile station does not know whether the base station is transmitting this message or not, there is no guarantee the mobile station will receive this message in any time period.

⁶ For example SYS_PAR_MSG_SEQ_S

- 1 • Set the BAND_CLASS field of HRPD_NGHBR_LIST[i] to BAND_CLASS field of
- 2 HRPD_NGHBR_LIST[i-1].
- 3 • Set the CDMA_FREQ field of HRPD_NGHBR_LIST[i] to CDMA_FREQ field of
- 4 HRPD_NGHBR_LIST[i-1].
- 5 • Set the PN_ASSOCIATION field of HRPD_NGHBR_LIST[i] to the i^{th} occurrence of
- 6 PN_ASSOCIATION_IND_r.
- 7 • Set the DATA_ASSOCIATION field of HRPD_NGHBR_LIST[i] to the i^{th} occurrence of
- 8 DATA_ASSOCIATION_IND_r.
- 9 • Set the SUBNET_COLOR_CODE field of HRPD_NGHBR_LIST[i] as follows:
- 10 • NGHBR_SUBNET_COLOR_CODE_IND_r equals '01', set SUBNET_COLOR_CODE
- 11 field of HRPD_NGHBR_LIST[i] to SUBNET_COLOR_CODE_r.
- 12 • NGHBR_SUBNET_COLOR_CODE_IND_r equals '10', set SUBNET_COLOR_CODE
- 13 field of HRPD_NGHBR_LIST[i] to NGHBR_SUBNET_COLOR_CODE_r.

14 3.2 Base Station Requirements

15 A base station complying with this specification may transmit the *Alternative Technologies*
 16 *Information Message* as an overhead message on the Primary Broadcast Control Channel or the
 17 Paging Channel. If the base station transmits the *Alternative Technologies Information Message*,
 18 base station shall send it at least once per T_{1b} seconds (see [2]). The requirements specified in
 19 [2] for transmitting an overhead message shall apply to this message.

20 3.3 PDU Formats for Messages on the f-csch

21 The messages sent on the f-csch are summarized in Table 3.3-1 (corresponds to Table 3.7.2.3-
 22 1 (part 2 of 2) in [2]).

23 **Table 3.3-1. f-csch Messages**

Message Name	MSG_TAG	Section Number	Primary BCCH	F-CCCH	PCH	P_REV_IN_USE
<i>Alternative Technologies Information Message</i>	ATIM	3.5	Y	N	Y	≥ 6

24 3.4 MSG_ID Values on f-csch

25 If the base station sends an *Alternative Technologies Information Message*, the base station
 26 shall set the MSG_ID field [4] of this message to '101111' as specified in Table 3.4-1
 27 (corresponding to Table 3.1.2.3.1.1.2-1 of [4]).

Table 3.4-1. MSG_ID Values on f-csch

Message Name	MSG_TAG	MSG_ID (binary)	Logical Channel
<i>Alternative Technologies Information Message</i>	ATIM	101111	broadcast

3.5 Alternative Technologies Information Message

MSG_TAG: ATIM

Field	Length (bits)
PILOT_PN	9
CONFIG_MSG_SEQ	6
NUM_RADIO_INTERFACE	4

NUM_RADIO_INTERFACE occurrences of the following record:

{ (NUM_RADIO_INTERFACE)

RADIO_INTERFACE_TYPE	4
RADIO_INTERFACE_LEN	10
Radio Interface Type-specific fields	8 x RADIO_INTERFACE_LEN

} (NUM_RADIO_INTERFACE)

PILOT_PN - Pilot PN sequence offset index.

The base station shall set this field to the pilot PN sequence offset for this base station, in units of 64 PN chips.

CONFIG_MSG_SEQ - Configuration message sequence number.

The base station shall set this field to CONFIG_SEQ (see 3.6.2.2 of [2]).

NUM_RADIO_INTERFACE - Number of radio interface types.

The base station shall set this field to the number of radio interface type records included in this message.

The base station shall include NUM_RADIO_INTERFACE occurrences of the following record, one occurrence for each radio interface type is included in this message.

RADIO_INTERFACE_TYPE - The radio interface type.

The base station shall set this field to the radio interface type of this record as specified in Table 3.5-1.

Table 3.5-1. Radio Interface Type

RADIO_INTERFACE_TYPE (binary)	Descriptions
0010	HRPD
Other	Reserved

RADIO_INTERFACE_LEN - The length of the Radio Interface Type-specific fields.

The base station shall set this field to one less than the number of octets in the Radio Interface Type-specific fields of this record.

If RADIO_INTERFACE_TYPE is equal to '0010', the base station shall include the following radio interface type-specific fields:

{ (COMMON RECORD)

COMMON_RECORD_LEN	4
SUBNET_COLOR_CODE_INCL	1
SUBNET_COLOR_CODE	0 or 8
COMMON_RECORD_RESERVED	0 ~ 7 (as needed)

} (COMMON RECORD)

NUM_HRPD_NGHBR	6
HRPD_NGHBR_REC_LEN	5

NUM_HRPD_NGHBR occurrences of the following subrecord:

{ (NUM_HRPD_NGHBR)

NGHBR_PN	9
NGHBR_FREQ_SAME_AS_PREV	1
NGHBR_BAND	0 or 5
NGHBR_FREQ	0 or 11
PN_ASSOCIATION_IND	1
DATA_ASSOCIATION_IND	1
NGHBR_SUBNET_COLOR_CODE_IND	2
NGHBR_SUBNET_COLOR_CODE	0 or 8
HRPD_NGHBR_REC_RESERVED	0-7 (as needed)

} (NUM_HRPD_NGHBR)

COMMON_RECORD_LEN - Length of the common record part.

The base station shall set this field to one less than the length of the common record in octets, including this field.

SUBNET_COLOR_CODE_INCL - HRPD Subnet Color Code Included Indicator.

If the Subnet Color Code (see [1]) associated with the HRPD sector corresponding to this pilot is included in this message, the

1 base station shall set this field to '1'; otherwise, the base station
2 shall set this field to '0'.

3 SUBNET_COLOR_CODE - HRPD Subnet Color Code.

4 If the SUBNET_COLOR_CODE_INCL field is set to '0', the base
5 station shall omit this field; otherwise, the base station shall
6 include this field and set it as follows:

7 The base station shall set this field to Subnet Color Code (see [1])
8 associated with the HRPD sector corresponding to this pilot.

9 COMMON_RECORD_RESERVED - Common record part reserved bits.

10 The base station shall add reserved bits as needed in order to
11 make the length of the common record equal to an integer
12 number of octets. The base station shall set these bits to '0'.

13 NUM_HRPD_NGHR - Number of HRPD neighbor pilot PN sequences.

14 The base station shall set this field to the number of HRPD
15 neighbors included in the message.

16 HRPD_NGHR_REC_LEN - HRPD neighbor record length

17 The base station shall set this field to one less than the number
18 of octets included in each HRPD neighbor records.

19 The base station shall include one occurrence of the following subrecord for each pilot that a
20 mobile station is to place in its HRPD Neighbor Set.

21 NGHR_PN - Neighbor pilot PN sequence offset index.

22 The base station shall set this field to the pilot PN sequence offset
23 for this neighbor, in units of 64 PN chips.

24 NGHR_FREQ_SAME_AS_PREV - Neighbor frequency information is same as previous
25 indicator.

26 The base station shall set this field to '1' if the neighbor frequency
27 information for this record is the same as the neighbor frequency
28 information for the previous record included in this message;
29 otherwise, the base station shall set this field to '0'.

30 NGHR_BAND - Neighbor band class.

31 If the NGHR_FREQ_SAME_AS_PREV field is set to '1', the base
32 station shall omit this field; otherwise, the base station shall
33 include this field and set it as follows:

1 The base station shall set this field to the CDMA band class, as
2 specified in [5], corresponding to the CDMA frequency assignment
3 for the CDMA Channel containing this neighbor.

4 NGHBR_FREQ - Neighbor frequency assignment.

5 If the NGHBR_FREQ_SAME_AS_PREV field is set to '1', the base
6 station shall omit this field; otherwise, the base station shall
7 include this field and set it as follows:

8 The base station shall set this field to the CDMA Channel
9 number, in the specified CDMA band class, corresponding to the
10 CDMA frequency assignment for this neighbor.

11 PN_ASSOCIATION_IND - Neighbor PN association indicator.

12 The base station shall set this field to '1' if the system identified
13 by this system record has the same PN assignment as the MC
14 system to which this base station belongs; otherwise, the base
15 station shall set this field to '0'.

16 DATA_ASSOCIATION_IND - Neighbor data association indicator.

17 The base station shall set this field to '1' if the system identified
18 by this system record can reach the same set of PDSNs as the MC
19 system to which this base station belongs; otherwise, the base
20 station shall set this field to '0'.

21 NGHBR_SUBNET_COLOR_CODE_IND - Neighbor HRPD Subnet Color Code Indicator.

22 If the Subnet Color Code (see [1]) information for this neighbor is
23 not included, the base station shall set this field to '00'.

24 If the Subnet Color Code information for this neighbor is included
25 and is the same value as included in the SUBNET_COLOR_CODE
26 field above, the base station shall set this field to '01'.

27 If the Subnet Color Code (see [1]) information for this neighbor is
28 included below, the base station shall set this field to '10'.

29 NGHBR_SUBNET_COLOR_CODE - Neighbor HRPD Subnet Color Code.

30 If the NGHBR_SUBNET_COLOR_CODE_IND field is not set to '10',
31 the base station shall omit this field; otherwise, the base station
32 shall include this field and set it as follows:

33 The base station shall set this field to the Subnet Color Code (see
34 [1]) for this neighbor.

35 HRPD_NGHBR_REC_RESERVED - HRPD neighbor record reserved bits.

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The base station shall add reserved bits as needed in order to make the length of this record equal to an integer number of octets. The base station shall set these bits to '0'.

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2 No text.

3