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## ***Administration of Parameter Value Assignments for cdma2000 Spread Spectrum Standards***

### ***Release A***

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**REFERENCES**

The following standards are referenced in this text. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based upon this document are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. ANSI and TIA maintain registers of currently valid national standards published by them.

1. Reserved.
2. 3GPP2 C.S0002-A, *Physical Layer Standard for cdma2000 Spread Spectrum Systems*, June 2000.
3. 3GPP2 C.S0003-A, *Medium Access Control (MAC) Standard for cdma2000 Spread Spectrum Systems*, June 2000.
4. Reserved.
5. 3GPP2 C.S0005-A, *Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems*, June 2000.
6. Reserved.
7. 3GPP2 C.S0008-0, *Multi-Carrier Specification for Spread Spectrum Systems on GSM MAP (MC-MAP)*, June 2000.
8. 3GPP2 C.S0009-0, *Speech Service Option Standard for Wideband Spread Spectrum System*, December 1999.
9. 3GPP2 C.S0013-0, *Mobile Station Loopback Service Options Standard*, December 1999.
10. 3GPP2 C.S0014-0, *Enhanced Variable Rate Codec, Speech Service Option 3 for Wideband Spread Spectrum Digital Cellular System*, December 1999.
11. 3GPP2 C.S0015-0, *Short Message Services for Wideband Spread Spectrum Systems*, December 1999.
12. 3GPP2 C.S0016-0, *Over-the-Air Service Provisioning of Mobile Stations in Wideband Spread Spectrum Systems*, December 1999.
13. 3GPP2 C.S0017-0, *Data Services Standard for Wideband Spread Spectrum Systems*, December 1999.
14. 3GPP2 C.S0017-0-1, *Data Services Standard for Wideband Spread Spectrum Systems – Addendum 1*, December 1999.
15. 3GPP2 C.S0017-0-2, *Data Services Standard for Wideband Spread Spectrum Systems – Addendum 2*, April 2000.
16. 3GPP2 C.S0020-0, *High Rate Speech Service Option for Wideband Spread Spectrum Communication Systems*, December 1999.
17. 3GPP2 C.S0022-0, *Position Determination Service Standard for Dual Mode Spread Spectrum Systems*, December 1999.
18. 3GPP2 C.P9005, *Test Data Service Option (TDSO) for cdma2000 Spread Spectrum Systems*, TBD.

- 1 19. 3GPP2 C.P9006, *Markov Service Option (MSO) for cdma2000 Spread Spectrum Systems*,  
2 TBD.
- 3 20. 3GPP2 N.S0005, *Cellular Radiotelecommunications Intersystem Operations*, December  
4 1999.
- 5 21. TIA/EIA/IS-91-A, *Base Station – Mobile Station Compatibility Specification for 800 MHz*  
6 *Cellular, Auxiliary, and Residential Services*, November 1999.
- 7 22. Reserved.
- 8 23. TIA/EIA/IS-99, *Data Services Option Standard for Wideband Spread Spectrum Digital*  
9 *Cellular System*, July 1995.
- 10 24. TIA/EIA/IS-657, *Packet Data Services Option Standard for Wideband Spread Spectrum*  
11 *Digital Cellular System*, July 1996.
- 12 25. ANSI X3.4, *Information Systems – Coded Character Sets – 7-Bit American National Standard*  
13 *Code*, 1986.
- 14 26. ARIB STD-T53 Ver 2.0, *CDMA Cellular System*, October 1999.
- 15 27. ISO 8859-1, *Information Technology – 8-Bit Single-Byte Coded Graphic Character Sets – Part*  
16 *1. Latin Alphabet No. 1*, 1988.
- 17 28. ISO 8859-8, *Information Technology – 8-Bit Single-Byte Coded Graphic Character Sets*, 1988.
- 18 29. ISO/IEC 10646-1, *Information Technology – Universal Multiple-Octet Coded Character Set*  
19 *(UCS) – Part 1: Architecture and Basic Multilingual Plane*, 1993.
- 20 30. JIS X0201, *Code for Information Interchange*, 1976.
- 21 31. ITU-T T.50, *International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or*  
22 *IA5) Information Technology – 7-Bit Coded Character Set for Information Interchange*, 1992.
- 23 32. TTA.KO-006.0013, *Air Interface between Personal Station-Base Station Radio Interface*  
24 *Standard for 1.7 to 1.9GHz CDMA PCS*, July 1997.
- 25 33. KS X 1001, *The coded character set for information interchange - Korean and Chinese*  
26 *character*, 1998.

## 1 INTRODUCTION

The cdma2000 family of standards specify the operating and performance characteristics of cdma2000 digital spread spectrum systems. These standards contain certain parameter values (e.g., service options and *Data Burst Message* burst types) that have been reserved for either standard or for proprietary (non-standard) usage. As new voice and non-voice-related services are defined, it is necessary to assign values to these parameters. To avoid confusion resulting from multiple assignments, 3GPP2 Technical Specification Group C (TSG-C) recognized the need to provide this single master registry of parameter values that it has authorized for use.

This document assigns values to parameters within certain cdma2000 specifications for standard and for proprietary usage. The affected standards are listed in the References section of this document. As assignments are identified, this document will be revised to accommodate the new parameter assignments. Manufacturers, service providers, and others wishing to use values for parameters that have not been assigned should refer to Section 2 of this document for parameter value assignment administration procedures. Services using proprietary parameter value assignments are not subject to standardization within TSG-C, but shall be interoperable with the requirements within the respective cdma2000 specifications.

In addition to the parameter values assigned in this document, TSG-C may assign parameter values to new services or to certain organizations according to the procedures described in Section 2. Parameter values that are not assigned in this document or that are not assigned according to the procedures in Section 2 are undefined; and, therefore, have not been approved by TSG-C. Organizations should not use unassigned parameter values, and are cautioned that use of unassigned parameter values may affect future compatibility.

The terms "Manufacturer-Specific" and "Proprietary" are used interchangeably, as are the terms "Standard" and "Specification."

This document may contain provisional value assignments for specifications under development. These specifications may not be approved by the date of publication of this document.

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2 No text.

## 2 ADMINISTRATION OF PARAMETER VALUE ASSIGNMENTS

Assignment of parameter values shall be governed by the administrative procedures contained in this section.

### 2.1 Request for Parameter Value Assignments

Requests for one or more parameter value assignments may be made by any 3GPP2 Technical Specification Group, as well as by individual manufacturers, service providers, and others. This includes requests for assignments within existing sections of this document, as well as requests for the inclusion of new parameters as the need arises. External requests must be made by way of written correspondence to the 3GPP2 Secretariat (see 2.4).

Upon receipt of a request, TSG-C will discuss the matter; upon approval, if granted, the TSG will designate a new parameter value assignment and, if necessary, will designate an appropriate new section within this document. This assignment will be considered as an addendum to this document and will be added to the next published revision.

TSG-C will decide the appropriate time for releasing an update of this document. If requested in a correspondence to the 3GPP2 Secretariat, the requester will be notified of the TSG-C decision on a proprietary parameter value assignment request prior to publication.

### 2.2 Selection of Parameter Value Assignments

The selection of any parameter value assignments will be at the sole discretion of TSG-C. Where the requester has a need for a specific parameter value assignment, such a request shall be included in the written correspondence to the 3GPP2 Secretariat, and the request will be considered by the TSG during its discussions.

### 2.3 Use of Proprietary Parameter Value Assignments

Use of all proprietary parameter value assignments is subject to the restrictions of this section.

Organizations that have been assigned proprietary parameter value assignments may use them to designate proprietary services, features, or options without further notification to 3GPP2 or TSG-C. Such services, features, or options shall conform to all applicable requirements of the cdma2000 specifications.

Any organization wishing to use a parameter value assignment that has been designated to another organization (the "assignee") shall obtain permission to use the parameter value assignment from the assignee and shall conform to all requirements imposed by the assignee regarding the corresponding parameter value assignment. In this case, the organization requesting use of the assignee's parameter value assignment shall also conform to all applicable requirements of the cdma2000 specifications.

A parameter value assignment that has been in proprietary use may, at the request of an assignee, be incorporated into a cdma2000 specification. At that time, 3GPP2 TSG-C may

1 assign the parameter a new, non-proprietary value or may use the assignee's related  
2 parameter value assignment. If the assignee's parameter value assignment is used, then  
3 permission from the assignee for its use shall no longer be required.

4 When a parameter value assignment is no longer needed for proprietary use, the assignee  
5 should notify the 3GPP2 Secretariat through written correspondence.

#### 6 **2.4 Inquiries**

7 All inquiries and requests regarding this document should be addressed via e-mail to the  
8 3GPP2 Secretariat at [secretariat@3gpp2.org](mailto:secretariat@3gpp2.org).

9 In the event e-mail communication is unavailable or deemed undesirable, printed  
10 correspondence may be addressed to the 3GPP2 Secretariat as follows:

11 3GPP2 Secretariat  
12 c/o Telecommunications Industry Association  
13 2500 Wilson Boulevard  
14 Suite 300  
15 Arlington, Virginia 22201

### 3 SERVICE OPTION NUMBER ASSIGNMENTS

The cdma2000 specifications support the concept of service options on both the control and on the traffic channels. Service options allow various voice and non-voice services to be defined and to be specified independently within the confines of the physical layer and the multiplex sub-layer interface. Each service option is identified by a unique service option number to facilitate proper processing within the network and mobile stations. Service option numbers may be used for standard services, as well as for proprietary (non-standard) services.

A service option number may indicate a service option revision. For this interpretation, the 16-bit service option number is composed of three fields: the Proprietary Indicator field, the Service Option Revision field, and the Base Service Option Number field, as shown in Figure 3-1.

Service Option		
Proprietary Indicator	Service Option Revision	Base Service Option Number
1 bit	3 bits	12 bits

**Figure 3-1. Service Option Number Format**

#### 3.1 Standard Service Option Number Assignments

The Proprietary Indicator of standard service option numbers is set to '0'.

Table 3.1-1 shows the service option number assignments that have been made and approved as of the date of this publication.

1

**Table 3.1-1. Standard Service Option Number Assignments (part 1 of 3)**

<b>Service Option Number (Decimal)</b>	<b>Designated Use/Type of Service</b>	<b>Associated Standard</b>
1	Basic Variable Rate Voice Service (8 kbps)	[8]
2	Mobile Station Loopback (8 kbps)	[9]
3	Enhanced Variable Rate Voice Service (8 kbps)	[10]
4	Asynchronous Data Service (9.6 kbps)	[23]
5	Group 3 Facsimile (9.6 kbps)	[23]
6	Short Message Services (Rate Set 1)	[11]
7	Packet Data Service: Internet or ISO Protocol Stack	[24]
8	Packet Data Service: CDPD Protocol Stack	[24]
9	Mobile Station Loopback (13 kbps)	[9]
10	STU-III-Transparent Service	[13]
11	STU-III Non-Transparent Service	[13]
12	Asynchronous Data Service (14.4 or 9.6 kbps)	[13]
13	Group 3 Facsimile (14.4 or 9.6 kbps)	[13]
14	Short Message Services (Rate Set 2)	[11]
15	Packet Data Service: Internet or ISO Protocol Stack (14.4 kbps)	[13]
16	Packet Data Service: CDPD Protocol Stack (14.4 kbps)	[13]
17	High Rate Voice Service (13 kbps)	[16]
18	Over-the-Air Parameter Administration (Rate Set 1)	[12]
19	Over-the-Air Parameter Administration (Rate Set 2)	[12]
20	Group 3 Analog Facsimile (Rate Set 1)	[13]
21	Group 3 Analog Facsimile (Rate Set 2)	[13]
22	High Speed Packet Data Service: Internet or ISO Protocol Stack (RS1 forward, RS1 reverse)	[13]
23	High Speed Packet Data Service: Internet or ISO Protocol Stack (RS1 forward, RS2 reverse)	[13]

1

**Table 3.1-1. Standard Service Option Number Assignments (part 2 of 3)**

<b>Service Option Number (Decimal)</b>	<b>Designated Use/Type of Service</b>	<b>Associated Standard</b>
24	High Speed Packet Data Service: Internet or ISO Protocol Stack (RS2 forward, RS1 reverse)	[13]
25	High Speed Packet Data Service: Internet or ISO Protocol Stack (RS2 forward, RS2 reverse)	[13]
26	High Speed Packet Data Service: CDPD Protocol Stack (RS1 forward, RS1 reverse)	[13]
27	High Speed Packet Data Service: CDPD Protocol Stack (RS1 forward, RS2 reverse)	[13]
28	High Speed Packet Data Service: CDPD Protocol Stack (RS2 forward, RS1 reverse)	[13]
29	High Speed Packet Data Service: CDPD Protocol Stack (RS2 forward, RS2 reverse)	[13]
30	Supplemental Channel Loopback Test for Rate Set 1	[9]
31	Supplemental Channel Loopback Test for Rate Set 2	[9]
32	Test Data Service Option (TDSO)	[18]
33	144 kbps Packet Data Service, Internet or ISO Protocol Stack	[14]
34	144 kbps Packet Data Service, CDPD Potocol Stack	[14]
35	Location Services, Rate Set 1 (9.6 kbps)	[17]
36	Location Services, Rate Set 2 (14.4 kbps)	[17]
37	ISDN Interworking Service (64 kbps)	[15]
38	GSM Voice	[7]
39	GSM Circuit Data	[7]
40	GSM Packet Data	[7]
41	GSM Short Message Service	[7]
42 - 53	Reserved for MC-MAP standard service options	[7]
54	Markov Service Option (MSO)	[19]
55 - 4099	Reserved for standard service options.	None

1

**Table 3.1-1. Standard Service Option Number Assignments (part 3 of 3)**

<b>Service Option Number (Decimal)</b>	<b>Designated Use/Type of Service</b>	<b>Associated Standard</b>
4100	Asynchronous Data Service, Revision 1 (9.6 or 14.4 kbps)	[13]
4101	Group 3 Facsimile, Revision 1 (9.6 or 14.4 kbps)	[13]
4102	Reserved for standard service option.	None
4103	Packet Data Service: Internet or ISO Protocol Stack, Revision 1 (9.6 or 14.4 kbps)	[13]
4104	Packet Data Service: CDPD Protocol Stack, Revision 1 (9.6 or 14.4 kbps)	[13]
4105 - 32,767	Reserved for standard service options.	None

2

3

1 **3.2 Proprietary Service Option Number Assignments**

2 The Proprietary Indicator of proprietary service option numbers is set to '1'.

3 Table 3.2-1 shows the proprietary service option number assignments made and approved  
4 as of the date of this publication. An 'x' represents either a zero or a one.

5

1

**Table 3.2-1. Proprietary Service Option Number Assignments**

<b>Organization</b>	<b>Service Option Number (Decimal)</b>	<b>Service Option Number (Binary)</b>
QUALCOMM Incorporated	32,768 - 32,771	1000 0000 0000 00xx
OKI telecom	32,772 - 32,775	1000 0000 0000 01xx
Lucent Technologies	32,776 - 32,779	1000 0000 0000 10xx
Nokia	32,780 - 32,783	1000 0000 0000 11xx
NORTEL NETWORKS	32,784 - 32,787	1000 0000 0001 00xx
Sony Electronics Inc.	32,788 - 32,791	1000 0000 0001 01xx
Motorola	32,792 - 32,795	1000 0000 0001 10xx
QUALCOMM Incorporated	32,796 - 32,799	1000 0000 0001 11xx
QUALCOMM Incorporated	32,800 - 32,803	1000 0000 0010 00xx
QUALCOMM Incorporated	32,804 - 32,807	1000 0000 0010 01xx
QUALCOMM Incorporated	32,808 - 32,811	1000 0000 0010 10xx
Lucent Technologies	32,812 - 32,815	1000 0000 0010 11xx
Denso International	32,816 - 32,819	1000 0000 0011 00xx
Motorola	32,820 - 32,823	1000 0000 0011 01xx
Denso International	32,824 - 32,827	1000 0000 0011 10xx
Denso International	32,828 - 32,831	1000 0000 0011 11xx
Denso International	32,832 - 32,835	1000 0000 0100 00xx
NEC America	32,836 - 32,839	1000 0000 0100 01xx
Samsung Electronics	32,840 - 32,843	1000 0000 0100 10xx
Dot Wireless, Inc.	32,844 - 32,847	1000 0000 0100 11xx
Toshiba Corporation	32,848 - 32,851	1000 0000 0101 00xx
LG Information & Communications	32,852 - 32,855	1000 0000 0101 01xx
Reserved	32,856 - 65,535	1000 0000 0101 1000 through 1111 1111 1111 1111

2

## 4 DATA BURST MESSAGE BURST TYPE ASSIGNMENTS

The cdma2000 specifications support the use of *Data Burst Messages* on both the control channel and the traffic channel. *Data Burst Messages* can be sent by mobile stations over either the Reverse Control Channel or the Reverse Dedicated Channel, and can be sent by base stations over either the Forward Control Channel or the Forward Dedicated Channel. The burst types (values of the BURST\_TYPE field) for mobile-station-originated and base-station-originated *Data Burst Messages* are defined in this section.

With the addition of other service options (e.g., asynchronous data and Group-3 fax) to the basic voice service, the use of the *Data Burst Message* is being defined to support specific service options. *Data Burst Messages* may be used for standard services, as well as for proprietary (non-standard) services. Thus, the need arises to distinguish the data burst types associated with individual service options, especially when multiple service options are allowed to be active simultaneously.

### 4.1 Standard Data Burst Message Burst Type Assignments

Table 4.1-1 shows the standard burst type assignments made and approved as of the date of this publication.

**Table 4.1-1. Standard Data Burst Message Burst Type Assignments**

<b>Burst Type (Binary)</b>	<b>Designated Use/Type of Service</b>	<b>Associated Standards</b>
000000	Unknown burst type	[2]
000001	Asynchronous Data Services	[23]
000010	Group-3 Facsimile	[23]
000011	Short Message Services	[11]
000100	Over-the-Air Service Provisioning	[12]
000101	Position Determination Services	[17]
000110	Short Data Bursts	[3]
000111 - 111101	Reserved	Not applicable
111110	Extended Burst Type - International	See Below
111111	Extended Burst Type	See Below

19

20

Burst type '111110' indicates that an "Extended Burst Type - International" is contained in the first two octets of the CHARi field of the *Data Burst Message*. The first ten bits of "Extended Burst Type - International" contain a binary mapping of the Mobile Country Code (MCC) associated with the national standards organization administering the use of the remaining octets of the message. Encoding of the MCC shall be as specified in 2.3.1.3 of [5]. The remaining six bits of the "Extended Burst Type - International" shall specify the country-specific burst type.

Burst type '111111' indicates that an extended burst type is contained in the first two octets of the CHARi field of the *Data Burst Message*. Table 4.1-2 shows the standard extended burst type assignments (assigned values of the first two octets of the CHARi field) made and approved as of the date of this publication.

**Table 4.1-2. Standard *Data Burst Message* Extended Burst Type Assignments**

<b>Extended Burst Type (Binary)</b>	<b>Designated Use/Type of Service</b>	<b>Associated Standards</b>
0000 0000 0000 0000 – 0111 1111 1111 1111	Reserved for standard data burst types.	[5]
1000 0000 0000 0000 – 1111 1111 1111 1111	Reserved for proprietary data burst types.	[5]

#### **4.2 Proprietary *Data Burst Message* Burst Type Assignments**

All proprietary *Data Burst Message* burst types are assigned as extended burst types. Table 4.2-1 shows the proprietary extended burst type assignments that were made and approved as of the date of this publication. An 'x' represents either a zero or a one.

**Table 4.2-1. Proprietary *Data Burst Message* Extended Burst Type Assignments**

<b>Organization</b>	<b>Extended Burst Type (Binary)</b>
Motorola	1000 0000 0000 xxxx
Reserved	1000 0000 0001 0000 – 1111 1111 1111 1111

## 1 **5 MULTIPLEX OPTION NUMBER ASSIGNMENTS**

2 The cdma2000 specifications allow the multiplex sublayer to be tailored so as to provide  
3 special capabilities. The multiplex sublayer is one of the conceptual layers of the system,  
4 which multiplexes and demultiplexes traffic from different service option instances and  
5 signaling traffic. Each multiplex option, designated by a multiplex option number, defines  
6 the specific frame format for a particular set of capabilities.

### 7 **5.1 Standard Multiplex Option Number Assignments**

8 Refer to [3] for Multiplex Option Number Assignments.

### 9 **5.2 Proprietary Multiplex Option Number Assignments**

10 No proprietary multiplex option numbers have been assigned as of the date of release of  
11 this document.

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2 No text.

1 **6 BAND CLASS VALUE ASSIGNMENTS**

2 The cdma2000 specifications use values of the band class parameter to designate CDMA  
3 frequency bands.

4 **6.1 Band Class Value Assignments**

5 Table 6.1-1 shows the band class value assignments (assigned values of the BAND\_CLASS  
6 field) that were made and approved as of the date of this publication.

7  
8 **Table 6.1-1. Band Class Value Assignments**

<b>Band Class Value (Binary)</b>	<b>Frequency Band</b>	<b>Associated Standards</b>
00000	800 MHz Cellular System	[2]
00001	1.850 to 1.990 GHz Broadband PCS	[2]
00010	872 to 960 MHz TACS Band	[2]
00011	832 to 925 MHz JTACS Band	[26]
00100	1.750 to 1.870 GHz Korean PCS	[32]
00101	450 MHz NMT	[2]
00110	2 GHz IMT-2000 Band	[2]
00111	North American 700 MHz Cellular Band	[2]
01000-11111	Reserved	None

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2 No text.

## 7 MANUFACTURER-SPECIFIC OTASP ASSIGNMENTS

[12] reserves specific ranges of values for manufacturer-specific OTASP assignments. Values in specified ranges are reserved as shown in Table 7-1. Specific assignments are given in sections 7.1 through 7.9.

**Table 7-1 Manufacturer-specific OTASP Assignments**

<b>OTASP Value</b>	<b>Reserved Manufacturer-Specific Range</b>	<b>Reference in [12]</b>
Reverse Link Message Types (OTASP_MSG_TYPE)	'11000000' - '11111110'	3.5
Result Codes (RESULT_CODE)	'10000000' - '11111110'	3.5.1.2
Feature Identifier (FEATURE_ID)	'11000000' - '11111110'	3.5.1.7
Reverse Link NAM Parameter Block Types (BLOCK_ID)	'10000000' - '11111110'	3.5.2
Reverse Link SSPR Parameter Block Types (BLOCK_ID)	'10000000' - '11111110'	3.5.3
Forward Link Message Types (OTASP_MSG_TYPE)	'11000000' - '11111110'	4.5
Forward Link NAM Parameter Block Types (BLOCK_ID)	'10000000' - '11111110'	4.5.2
Forward Link SSPR Parameter Block Types (BLOCK_ID)	'10000000' - '11111110'	4.5.3
Forward Link Validation Parameter Block Types (BLOCK_ID)	'10000000' - '11111110'	4.5.4

### 7.1 Reverse Link Message Type Assignments

No Manufacturer-specific Reverse Link Message Type (OTASP\_MSG\_TYPE) values have been assigned as of the date of release of this document.

### 7.2 Result Code Assignments

Table 7.2-1 shows the proprietary assignments of Result Code. These assignments were made and approved as of the date of this publication. All block type values in the table are binary. An 'x' represents either a zero or a one.

**Table 7.2-1. Proprietary Assignments of Result Code**

<b>Organization</b>	<b>Block Type (Binary)</b>
QUALCOMM Incorporated	1000 00xx
Reserved	1000 0100 - 1111 1110

### 7.3 Feature Identifier Assignments

Table 7.3-1 shows the proprietary assignments of Feature Identifier. These assignments were made and approved as of the date of this publication. All block type values in the table are binary. An 'x' represents either a zero or a one.

**Table 7.3-1. Proprietary Assignments of Feature Identifier**

<b>Organization</b>	<b>Block Type (Binary)</b>
QUALCOMM Incorporated	1100 00xx
Reserved	1100 0100 - 1111 1110

### 7.4 Reverse Link NAM Parameter Block Type Assignments

Table 7.4-1 shows the proprietary assignments of Reverse Link NAM Parameter Block Type. These assignments were made and approved as of the date of this publication. All block type values in the table are binary. An 'x' represents either a zero or a one.

**Table 7.4-1. Proprietary Assignments of Reverse Link NAM Parameter Block Types**

<b>Organization</b>	<b>Block Type (Binary)</b>
QUALCOMM Incorporated	1000 00xx
Reserved	1000 0100 - 1111 1110

### 7.5 Reverse Link SSPR Parameter Block Type Assignments

No manufacturer-specific Reverse Link SSPR Parameter Block Type (BLOCK\_ID) values have been assigned as of the date of release of this document.

## 7.6 Forward Link Message Type Assignments

No manufacturer-specific Forward Link Message Type (OTASP\_MSG\_TYPE) values have been assigned as of the date of release of this document.

## 7.7 Forward Link NAM Parameter Block Type Assignments

Table 7.7-1 shows the proprietary assignments of Forward Link NAM Parameter Block Type. These assignments were made and approved as of the date of this publication. All block type values in the table are binary. An 'x' represents either a zero or a one.

**Table 7.7-1. Proprietary Assignments of Forward Link NAM Parameter Block Types**

<b>Organization</b>	<b>Block Type (Binary)</b>
QUALCOMM Incorporated	1000 00xx
Reserved	1000 0100 - 1111 1110

## 7.8 Forward Link SSPR Parameter Block Type Assignments

No manufacturer-specific Forward Link SSPR Parameter Block Type (BLOCK\_ID) values have been assigned as of the date of release of this document.

## 7.9 Forward Link Validation Parameter Block Type Assignments

No manufacturer-specific Forward Link Validation Parameter Block Type (BLOCK\_ID) values have been assigned as of the date of release of this document.

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2 No text.

## **8 ROAMING DISPLAY INDICATOR ASSIGNMENTS**

The cdma2000 specifications support the concept of roaming display indicator on the control channels. Roaming display indicator allows the network to indicate to the subscriber the roaming condition of the mobile station. Each roaming display indicator is identified by a unique roaming display number to facilitate proper processing within the network and mobile stations. Roaming display numbers may be used for standard services as well as for non-standard services.

### **8.1 Standard Enhanced Roaming Indicator Number Assignments**

Table 8.1-1 shows the standard enhanced roaming indicator number assignments made and approved as of the date of this publication.

### **8.2 Non-Standard Enhanced Roaming Indicator Number Assignments**

No manufacturer-specific Non-Standard Enhanced Roaming Indicator values have been assigned as of the date of release of this document.

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**Table 8.1-1. Enhanced Roaming Indicator Number Assignments**

<b>Roaming Display Number (Binary)</b>	<b>Roaming Display Indication</b>
00000000	Roaming Indicator On
00000001	Roaming Indicator Off
00000010	Roaming Indicator Flashing
00000011	Out of Neighborhood
00000100	Out of Building
00000101	Roaming - Preferred System
00000110	Roaming - Available System
00000111	Roaming - Alliance Partner
00001000	Roaming - Premium Partner
00001001	Roaming - Full Service Functionality
00001010	Roaming - Partial Service Functionality
00001011	Roaming Banner On
00001100	Roaming Banner Off
00001101 through 00111111	Reserved for Standard Enhanced Roaming Indicator Numbers
01000000 through 01111111	Reserved for Non-Standard Enhanced Roaming Indicator Numbers
10000000 through 11111111	Reserved

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## 9 SHORT MESSAGE SERVICES ASSIGNMENTS

[11] defines the protocol and procedures associated with exchange of Short Message Services (SMS). The protocol defined in [11] allows use of various data encoding schemes (as defined in Table 9-1) and various language indicators (as defined in Table 9-2).

**Table 9-1. Data Field Encoding Assignments**

<b>CHAR<sub>i</sub> Encoding Type</b>	<b>MSG_ENCODING Field<sup>v</sup></b>	<b>Length of CHAR<sub>i</sub>, bits</b>
Octet, unspecified	'00000'	8
Extended Protocol Message [21]	'00001'	(iv)
7-bit ASCII [25]	'00010'	7
IA5 (Table 11 of [31])	'00011'	7
UNICODE [29] <sup>i</sup>	'00100'	16
Shift-JIS [30] <sup>ii</sup>	'00101'	8 or 16
Korean [33] <sup>iii</sup>	'00110'	8 or 16
Latin/Hebrew [28]	'00111'	8
Latin [27]	'01000'	8
All other values are reserved.		
<p><sup>i</sup> UNICODE is a fixed 2-byte encoding method intended as an international character encoding scheme. It encodes most of the national character sets of most countries, including support of local diacritical marks, and it unifies character sets across national boundaries. It is supported by many computer and telecommunication systems worldwide. UNICODE is a trademark of Unicode, Inc.</p> <p><sup>ii</sup> Shift-JIS is a variable 1-2 byte non-modal encoding method widely implemented in Japan on a variety of computer platforms and pagers. It is used for the encoding of Kanji, Kana and Latin character sets defined in [30].</p> <p><sup>iii</sup> [33] is a variable 1-2 byte encoding method widely used in Korea.</p> <p><sup>iv</sup> Length is determined by the Message Type value. See Section 3.7.1 and Appendix B of [21].</p> <p><sup>v</sup> [20] uses an 8-bit field to carry short message data encoding information, so conversion to a 5-bit field is required for transmission over the air interface.</p>		

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2**Table 9-2. Language Indicator Value Assignments**

<b>LANGUAGE</b>	<b>Language</b>
'00000000'	Unknown or unspecified
'00000001'	English
'00000010'	French
'00000011'	Spanish
'00000100'	Japanese
'00000101'	Korean
'00000110'	Chinese
'00000111'	Hebrew
All other values are reserved.	
NOTE: Table 160 of [20] specifies PreferredLanguageIndicator value assignments for intersystem operation which may be different from the values defined above.	

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**10 ANALOG FAX ASSIGNMENTS**

[13] defines the protocol for Analog Fax services that allow identification of the IWF manufacturer in a tandem Analog Fax call. Using this, IWFs from the same manufacturer can invoke non-standardized protocols across the PSTN. The IWF manufacturer code is defined in Table 10-1.

**Table 10-1. Analog Fax Inter-working Function Manufacturer Code Assignments**

<b>IWF_MANUF</b>	<b>Analog Fax IWF Manufacturer</b>
'00000000'	Reserved
'00000001'	QUALCOMM Incorporated
'00000010'	3Com Corporation
'00000011'	NEC Corporation
All other values are reserved.	

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2 No text.