

<p>International Implementation of Wireless Telecommunication Systems Compliant with ANSI/TIA/EIA-41</p>	<p>TSB29-D November-2000</p>
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International Implementation of Wireless Telecommunication Systems Compliant with ANSI/TIA/EIA-41

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REVISION HISTORY

Revision	Description of Revision	
TSB29-A	Publication, March 1992	Initial Publication
TSB29-B	Publication, July 1997	Revision of TSB29-A
TSB29-B-1	Publication, March 1998	Addendum one of TSB29-B
TSB29-B-2	Publication, July 1998	Addendum two of TSB29-B
TSB29-C	Publication, June 1999	Revision of TSB29-B
TSB29-D	Publication, September 2000	Revision of TSB29-C

1 INTRODUCTION

When the first edition of the Mobile Station – Land Station Compatibility Specification (*IS-3*, now *TIA/EIA-553-A*) was issued, it was envisioned that it would be adopted for use within North America. Provisions were included for international implementation; however, detailed guidelines to assist with such implementations were not included. Subcommittee TR-45.2 recognized the need to provide such guidance and chartered a Working Group (Working Group VI) with this responsibility. The result of this Working Group’s deliberations has been the production of TSB29 as well as ongoing internationalization of other TIA standards, such as, *TIA/EIA-41-D*, *TIA/EIA/IS-751*, *TIA/EIA/IS-807*, *TIA/EIA-124*, *TIA/EIA-136*, *IS-95*, *IS-91*, and *TIA/EIA-2000*.

The principle aspects of international implementation addressed by this document are:

- The administration and assignment of System Identification Numbers (SIDs)
- The administration and assignment of Mobile Identification Numbers (MINs)
- Format of International Mobile Subscriber Identifiers (IMSI)
- Configuration and inter-operation of national SS7 networks in support of international roaming.

The goal of this publication is to provide the international wireless telecommunications industry with the framework permitting the coordinated implementation of Wireless Radio Telecommunication Systems in compliance with the provisions of the AMPS family of air interface standards (e.g., *TIA/EIA-553*, *IS-54*, *IS-91*, *IS-95*, *TIA/EIA-2000*, and *TIA/EIA-136*).

1.1 ABBREVIATIONS AND ACRONYMS

ANSI	American National Standards Institute	1
AMPS	Advanced Mobile Phone Service	2
BID	Billing ID	3
CCITT	International Telegraph and Telephone Consultative Committee	4
CCS7	ITU-T Common Channel Signaling System 7	5
EIA	Electronics Industry Association	6
GTT	Global Title Translation	7
HLR	Home Location Register	8
IFAST	International Forum on ANSI-41 Standards Technology	9
IMSI	International Mobile Subscriber Identity	10
IRM	International Roaming MIN	11
ISDN	Integrated Services Digital Network	12
ITU-T	International Telecommunications Union – Telecommunications	13
MAP	Mobile Application Part	14
MC	Message Center	15
MCC	Mobile Country Code	16
MIN	Mobile Identification Number	17
MNC	Mobile Network Code	18
MS	Mobile Station	19
MSIN	Mobile Subscriber Identification Number	20
MTP	Message Transfer Point	21
NANP	North American Numbering Plan	22
NMSI	National Mobile Subscriber Identity	23
NPA	Number Plan Area	24
SCCP	Signaling Connection Control Part	25
SID	System Identification	26
SS7	ANSI Signaling System 7	27
STP	Signaling Transfer Point	28
TCAP	Transaction Capabilities Application Part	29
TIA	Telecommunications Industry Association	30
TSB	Telecommunication Systems Bulletin	31
VLR	Visitor Location Register	32

1.2 REFERENCES

The following standards and specifications contain provisions that, through reference in this text, constitute provisions of this TSB. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this TSB 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. For further reference see the IFAST web site at <http://www.ifast.org/>.

American National Standards Institute (ANSI) T1 standards:

- • *ANSI T1.112, Signaling Connection Control Part Formats and Codes; 1988*
- • *ANSI T1.114-1988, Signaling System Number 7 – Transaction Capabilities Application Part (TCAP); 1988.*

American National Standards Institute (ANSI) Joint standards:

- • *ANSI J-STD-008-1996, Personal Station-Base Station Compatibility Requirements for 1.8 to 2.0 GHz Code Division Multiple Access (CDMA) Personal Communications Systems; 1996.*

International Telecommunications Union – Telecommunications (ITU-T) standards:

- *Series E: Overall Network Operation, Telephone Service, Service Operation and Human Factors; November 1998.*
- *Recommendation E.212, The International Identification Plan for Mobile Terminals and Mobile Users; ITU-T, November 1998.*
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- *Recommendation E.164, Numbering Plan for the ISDN era; CCITT, 1991.*
- *Annex to ITU Operational Bulletin No. 615 (I.III.1996) List of Mobile Country or Geographical Area Codes; March 1996.*
- *Annex B of ITU Q.713 SCCP formats and codes; 1995.*

Telecommunications Industry Association (TIA) – ANSI standards and Interim Standards:

- *TIA/EIA-41-D, Cellular Radio-Telecommunications Intersystem Operations; 1997. (ANSI-41)*
- *TIA/EIA-553-A Mobile Station – Land Station Compatibility Specification November 1999.*
- *TIA/EIA Interim Standard IS-91-A, Mobile Station – Land Station Compatibility Standard; Telecommunications Industry Association November 1999.*
- *TIA/EIA Interim Standard IS-95-B, Mobile Station – Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System; Telecommunications Industry Association; March 1999.*
- *TIA/EIA-124-C, Cellular Radio Telecommunications Intersystem Non-Signaling Data Communications (DMH); Telecommunications Industry Association; August 2000.*

- *TIA/EIA 136, Cellular System Mobile Station — Land Station Compatibility Standard; Telecommunications Industry Association; Rev. B March 2000.*
- *TIA/EIA Interim Standard IS-751, TIA/EIA-41-D Modifications to Support IMSI; Telecommunications Industry Association; February 1998.*
- *TIA/EIA Interim Standard IS-807, TIA/EIA-41-D Internationalization; Telecommunications Industry Association; 1999.*

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2 MOBILE IDENTIFICATION NUMBERS

A 10-digit mobile identification number, known as MIN, is used to identify MSs according to all air interface standards published before 1994. A transition is underway to the IMSI (see §3).

2.1. NORTH AMERICAN NUMBER PLAN (NANP) MOBILE STATIONS

The NANP MSs are those whose home system is within the NANP, as defined in ITU-T Recommendation *E.164* – The United States (its possessions and territories), Canada, Jamaica, Barbados, Antigua and Barbuda, Cayman Islands, British Virgin Islands, Bermuda, Bahamas, Dominican Republic, Grenada, Montserrat, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Turks and Caicos Islands, Puerto Rico and the US Virgin Islands. For such MSs the MIN is usually derived from the 10-digit national significant number, commonly referred to as the “directory number.” The format of this number is NPA-NXX-XXXX, where:

- “NPA” represents the 3-digit Numbering Plan Area,
- “NXX” represents the 3-digit mobile exchange code, and
- “XXXX” represents the 4-digit telecommunication number within the exchange.

2.2. NON-NANP MOBILE STATIONS

Non-NANP MSs are those MSs whose home system is external to the North American Numbering Plan (NANP).

It is recommended that the MINs be assigned from the set of the MINs that is allocated to the MS’s home country (or home service provider) by the International Forum on ANSI-41 Standards Technology (IFAST). For such MSs the format of the 10-digit MIN is “0XXX+6 Digits” or “1XXX+6 Digits”. The 0/1XXX portion will be assigned by IFAST to countries that require international roaming. The MS’s home country (or home service provider) will assign the 6-digits of the MIN that follow the 0/1XXX portion.

The following tables describe what is known about MIN formatting outside those formatted as NANP directory numbers. Each row of the tables describes a distinct group of MINs, and identifies the country and, when known, the company using that group of MINs. The tables are formatted as follows:

MIN Prefix

The high order digits of the MIN. “X” indicates a MIN digit position that may assume a value between 0 and 9. The tables are sorted numerically.

MIN Prefixes with the high order digit value of 0 or 1 are frequently referred to as International Roaming MINs (IRMs).

Country or Geographic Area

The country or geographic area that uses the related MIN Prefix.

Company

The company (national ministry or service provider) within the associated country or geographic area using the related MIN Prefix.

2.2.1 0-XXX-XXXXXX MINs

See the IFAST Web Site for the most current assignment of 0-XXX-XXXXXX MINs. The URL for the site is: <http://www.ifast.org>.

2.2.2 1-XXX-XXXXXX MINs

See the IFAST Web Site for the most current assignment of 1-XXX-XXXXXX MINs. The URL for the site is: <http://www.ifast.org>.

2.2.3 XXX-0XX-XXXX MINs

Table 2.1 XXX-0XX-XXXX MINs

MIN Prefix		Country or Geographical Area	Company
NPA	NXX		
530	0XX	New Zealand	Telecom New Zealand, Ltd.
549	0XX	Western Samoa	Telecom Samoa Cellular, Ltd.
722	0XX	Argentina	
972	0XX	Israel	Pele-Phone

2.2.4. XXX-1XX-XXXX MINs

Table 2.2. XXX-1XX-XXXX MINs

MIN Prefix		Country or Geographical Area	Company
NPA	NXX		
530	1XX	New Zealand	Telecom New Zealand, Ltd.
852	170	Hong Kong	Pacific Link Communications

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2.2.5. NANP MINs Used Outside North America

Table 2.3. NANP MINs Used Outside North America

MIN Prefix		Country or Geographical Area	Company
NPA	NXX		
460	XXX	China	unknown
521	XXX	Mexico	All wireless carriers
522	XXX	Mexico	All wireless carriers
523	XXX	Mexico	All wireless carriers
524	XXX	Mexico	All wireless carriers
525	XXX	Mexico	All wireless carriers
526	XXX	Mexico	All wireless carriers
527	XXX	Mexico	All wireless carriers
528	XXX	Mexico	All wireless carriers
529	XXX	Mexico	All wireless carriers
668	XXX	Thailand	Several Carriers
732	XXX	Colombia	Several Carriers
734	XXX	Venezuela	Several Carriers
852	XXX	Hong Kong	Hutchison Telecom
972	XXX	Israel (State of)	Unknown

3 INTERNATIONAL MOBILE SUBSCRIBER IDENTITY

The ITU-T Recommendation *E.212* International Mobile Subscriber Identity (IMSI) is incorporated as an alternate MS identifier in newer MS air interface standards (e.g., *TIA/EIA IS-136* and *TIA/EIA IS-95* Revision A). The utilization of IMSIs should be such that not more than the first 6 digits of the IMSI have to be analyzed in a visited public network for querying the home network. This identifier has the following format:

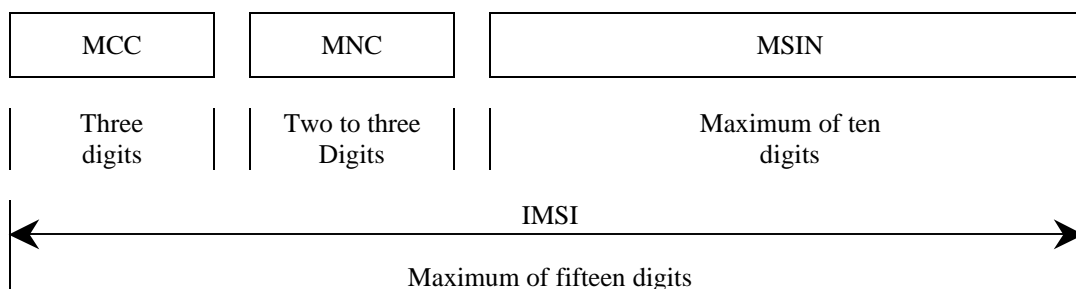


Figure 3-1 IMSI Format

Where:

MCC	Mobile Country Code
MNC	Mobile Network Code
MSIN	Mobile Subscriber Identification Number
NMSI	is a National Mobile Subscriber Identity of up to 12-digits
IMSI	International Mobile Subscriber Identity

It is recommended that the IMSI format be used in accordance with the ITU-T *E.212* recommendation. The application of *E.212*, beyond this recommendation, is a national issue.

3.1 GUIDELINES FOR IMSI ASSIGNMENT

Use of the following guidelines minimizes international roaming problems:

- a. Use the MCC assigned to the country that a wireless system serves.
- b. The use of an MNC will allow optimal routing by signaling networks outside the home country.
- c. The length of an MNC should be restricted to no more than 3-digits until international agreements adopt longer values.
- d. CDMA MSs may need to be identified by a MIN based IMSI as defined by *TIA/EIA/IS-751*.

4. GLOBAL TITLE TRANSLATION SELECTORS AND TRANSLATION TYPES

This section identifies ITU-T international services global title translation selectors that are available for use in routing ANSI/TIA/EIA-41 (or TIA/EIA/IS-41) messages from one country to another using the international signaling network. ITU-T Recommendation Q.713 standardizes translation selectors that are a combination of translation type, numbering plan, and nature of address indicator. Therefore, a particular translation type only has context when grouped with a numbering plan and nature of address indicator. For example, translation type = 1 could be used many times as long as it was grouped with a unique set of numbering plan and nature of address indicator. Q.713 also indicates the service or application where a given translation selector is usable. In many cases, one of several possible translation selectors may be chosen for use in the called or calling party address parameters for specific international services using SCCP global title-based routing. Where more than one is given, the translation selector to be used is subject to bilateral agreement.

This section also identifies the ANSI translation types that are available for use in routing ANSI/TIA/EIA-41 (or TIA/EIA/IS-41) messages from within a national ANSI signaling network to the international signaling network and from the international signaling network through a national ANSI signaling network.

This section does not contain the translation types that are available in other countries.

4.1. ITU-T GLOBAL TITLE TRANSLATION SELECTORS

ITU-T Recommendation Q.713 defines the formats and codes of the ITU-T's Signaling Connection Control Part (SCCP) messages that are carried by the MTP layer. Routing of SCCP messages is done either by direct routing utilizing domestic point codes or through global title translation. Routing of messages between countries (and in some cases between carriers in the same country) requires Global Title Translation (GTT) unless there is some sharing of domestic point codes between countries. The 1996 published version of Q.713 does not define an international roaming application and therefore no existing or new global title translation selectors have been designated for this purpose, in the following table, the items in **bold** were added in January 1997 by ITU-T Study Group 11 to the baseline version of the next issue of Q.713. The items in *italics* will potentially be assigned to the International Roaming application:

Applications and references	Addressable SCCP user entities of messages routed on global title	Called Party Address Translation Selector	Calling Party Address Translation Selector
International Roaming	Home Location Register	TT=0,NP=E.212, NAI=4 (Agreed January 1997)	<i>TT=0, NP=E.212, NAI=4</i>
	<i>Entities receiving response of registration notification or subsequent messages within the same dialogue</i>	<i>TT=0, NP=E.212, NAI=4</i>	<i>TT=0, NP=E.212, NAI=4</i>

4.2. ANSI SUPPORTED TRANSLATION TYPES

ANSI standard *TI.112*, titled *Signaling Connection Control Part Formats and Codes*, defines ANSI formats and codes used for SCCP messages and fields. Several ANSI translation types are currently available for use in routing *ANSI/TIA/EIA-41* messages from within a national ANSI signaling network to the international signaling network and from the international signaling network through a national ANSI signaling network. Following is a representative list of available translation types (for a complete and updated list, please refer to *TI.112*):

- Global Title Translation Type 3 based on MIN to HLR.
- Global Title Translation Type 16 based on IMSI or Node Identifier (i.e., *E.212*) to HLR or other Network Node.
- Global Title Translation Type 12 based on MIN to MC.
- Global Title Translation Type 13 based on IMSI to MC.
- Global Title Translation Type 14 based on E.164 number (e.g., Mobile Directory Number) to HLR.

4.3. NATIONAL TRANSLATION TYPES

Not available for this issue.

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5. ANSI/TIA/EIA-41 PROTOCOL CONSIDERATIONS WITHIN ITU-T CCS7 NETWORKS

This section describes the protocol stack recommended for *ANSI/TIA/EIA-41* message transport when *ANSI/TIA/EIA-41* messaging is transported within national networks or between national and international signaling networks using Signaling System 7.

5.1. BACKGROUND

Within the *ANSI/TIA/EIA-41* protocol architecture, a fundamental division is recognized between *data transfer services* and *application services*. Application services deal with the transfer of information, with its associated syntax and semantics. Data transfer services simply move octets between *ANSI/TIA/EIA-41* network entities via a signaling network. The choice of protocol to provide application services is thus independent of the choice of protocol(s) to provide data transfer services.

The *ANSI/TIA/EIA-41* standard specifies a single set of application services comprised of the ANSI Transaction Capabilities (ANSI TCAP) specified in *ANSI T1.114*, along with *ANSI/TIA/EIA-41* application-specific services called the Mobile Application Part (MAP). Due to the independence of application services with respect to data transfer services; *ANSI/TIA/EIA-41* messages can be transported over adjacent Signaling System 7 networks using interworking sets of SCCP/MTP.

5.2. RECOMMENDATION

Within North American *ANSI/TIA/EIA-41* networks, ANSI TCAP has been pervasively chosen to support application services, per the *ANSI/TIA/EIA-41* Standard. For those network operators that desire to implement *ANSI/TIA/EIA-41* over a Signaling System 7 network, it is recommended that these operators implement *ANSI/TIA/EIA-41* messaging using ANSI TCAP for application services regardless of the SCCP/MTP used for data transfer services. This choice is recommended because it avoids the need to interwork ANSI TCAP encoded messages and ITU-T TCAP encoded messages, which is costly from a network resource viewpoint.

The following diagram depicts the mechanics of *ANSI/TIA/EIA-41* messaging between two national SS7 networks per this recommendation:

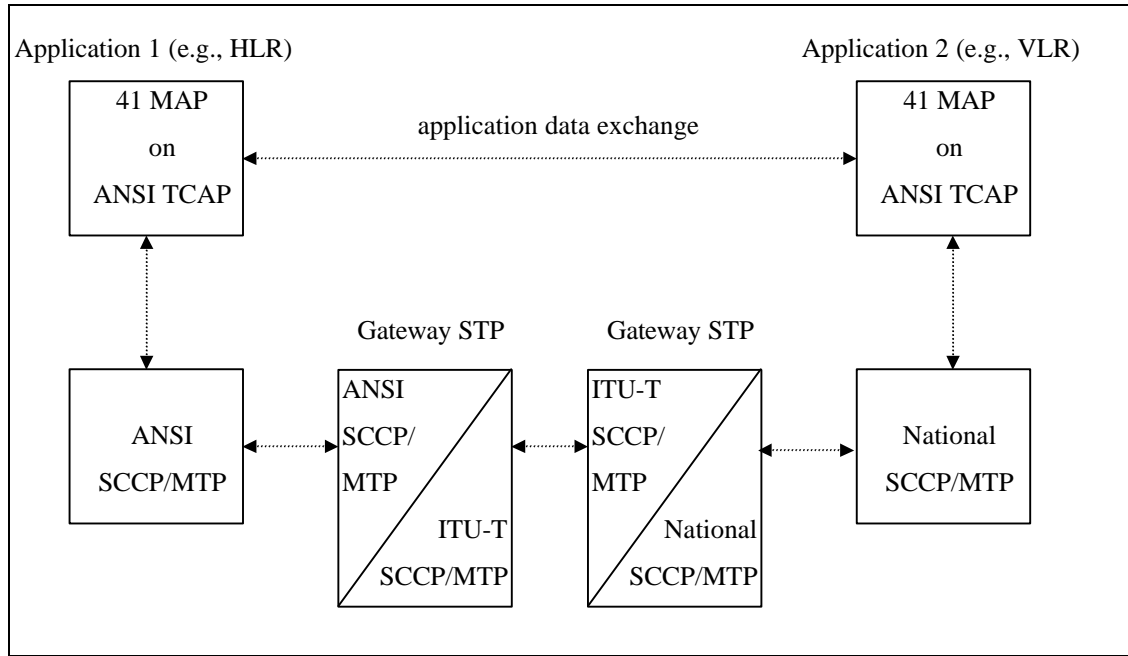


Figure 5-1 ANSI/TIA/EIA-41 Messaging Across Networks

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6. SYSTEM IDENTIFICATION NUMBER

15-bit system identification (SID_p) must be stored in the mobile station and used to identify the mobile station's home system (see §2.6.1.1.2 of *ANSI/EIA/TIA-553*). This Bulletin assumes that SIDs are globally unique regardless of band class (See *J-STD-008*).

6.1. SYSTEM IDENTIFICATION NUMBER DATA TABLES

This section contains tables that assign SID code groups to those countries or political entities to which the ITU-T has assigned a Mobile Country Code in *E.212* (Blue Book).

Two sets of tables have been provided:

- Table 6-1 is sorted alphabetically by Country or Geographical Area.
- Table 6-2 is sorted in Decimal SID order.

6.1.1. Reserved Blocks or Spare Codes

The following tables reflect the assignment of codes for specific use by the listed countries, and in some cases, the allocation of reserve groups for specific countries, the spare codes are not listed in the tables.

Furthermore, these tables indicate that decimal SIDs from 26112 through 31103 are "EXCLUDED FROM ASSIGNMENT". This exclusion is an accommodation to identify groups of wireless systems within the wireless industry's accounting infrastructure. SIDs in this range are known as Billing IDs (BIDs). For more information on BIDs, contact Cibernet Corp. at +1-202-785-0081.

SIDs with values from 32768 through 65535 cannot be transmitted by a wireless system. However, these SIDs are available for use to identify groups of wireless systems within the wireless industry's accounting infrastructure.

6.1.2. Administration

The responsibility for assignment of SID codes using the information contained in these tables rests with the cognizant government authority of the respective country, not with the EIA, TIA, or member companies. Applicants, licensees, manufacturers or operators are encouraged to contact the responsible government agency.

It is important to note that some international systems have already been commissioned with SIDs or MINs that have not been assigned in accordance with this Bulletin. To the extent that such information was available, we have provided information in Annex A.

6.1.3. Table Format

Each of the tables contains the following information:

Quantity

- The number of assigned SID codes.

Low SID

- The lowest SID code assigned, in decimal form.

High SID

- The highest SID code assigned, in decimal form.

Country or Geographical Area

- The country, geographical area (e.g., political entity) to which the assignment is applicable. An asterisk (*) in this column indicates that this country has a SID conflict, see table A-1.

MCC

- The Mobile Country Code or codes taken from the list published as an Annex to ITU Operational Bulletin No. 615 (1.III.1996)

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Table 6-1 SID Listing by Country or Geographical Area

Country or Geographical Area	Quantity	Low SID	High SID	MCC
Reserved System Identifications (SIDs)	128	7808	7935	N/A
Reserved System Identifications (SIDs)	16	8928	8943	N/A
Reserved System Identifications (SIDs)	16	10784	10799	N/A
Reserved System Identifications (SIDs)	48	10832	10879	N/A
Reserved System Identifications (SIDs)	128	15872	15999	N/A
Reserved System Identifications (SIDs)	3584	18432	22015	N/A
EXCLUDED FROM ASSIGNMENT - See §6.1.1	4992	26112	31103	N/A
Afghanistan (Islamic State of)	128	14976	15103	412
Albania (Republic of)	16	31456	31471	276
Algeria (People's Democratic Republic of)	32	8288	8319	603
American Samoa	16	11168	11183	544
Andorra (Principality of)	0	N/A	N/A	213
Angola (Republic of)	32	9504	9535	631
Anguilla	4	8028	8031	365
Antigua and Barbuda	16	8144	8159	344
Argentina Republic	128	32128	32255	722
Armenia (Republic of)	0	N/A	N/A	283
Aruba	16	9648	9663	363
Australia	128	8320	8447	505
Australia - Reserved	128	7680	7807	505
Australian External Territories	16	9712	9727	505
Austria	128	22912	23039	232
Azerbaijani Republic	0	N/A	N/A	400
Bahamas (Commonwealth of the)*	16	8080	8095	364
Bahrain (State of)	16	31408	31423	426
Bangladesh (People's Republic of)*	32	13472	13503	470
Barbados*	16	8160	8175	342
Belarus (Republic of)	0	N/A	N/A	257
Belgium	128	23936	24063	206
Belize	32	32640	32671	702
Benin (Republic of)	32	9088	9119	616
Bermuda	16	8096	8111	350
Bolivia (Republic of)	32	31232	31263	736
Bosnia and Herzegovina (Republic of)	0	N/A	N/A	218
Botswana (Republic of)	32	10176	10207	652
Brasil (Federative Republic of)	256	31872	32127	724
British Virgin Islands*	16	8112	8127	348
Brunei Darussalam	16	10880	10895	528
Bulgaria (Republic of)	32	15584	15615	284
Burkina Faso	32	8992	9023	613

Table 6-1 SID Listing by Country or Geographical Area (continued)

Country or Geographical Area	Quantity	Low SID	High SID	MCC
Burundi (Republic of)	32	9952	9983	642
Cambodia (Kingdom of)	32	11104	11135	456
Cameroon (Republic of)	32	9344	9375	624
Canada	2048	16384	18431	302
Cape Verde (Republic of)	16	8848	8863	625
Cayman Islands*	16	8128	8143	346
Central African Republic	32	9312	9343	623
Chad (Republic of)	32	9280	9311	622
Chile	128	31744	31871	730
China (Peoples Republic of)	768	13568	14335	460-461
China (Peoples Republic of)	512	25600	26111	460-461
Colombia (Republic of)*	128	31616	31743	732
Comoros (Islamic Federal Republic of the)	32	10208	10239	654
Congo (Democratic Republic of)	64	9440	9503	629-630
Cook Islands	16	11136	11151	548
Costa Rica	32	32544	32575	712
Côte d'Ivoire	32	8960	8991	612
Croatia (Republic of)	0	N/A	N/A	219
Cuba	128	32256	32383	368
Cyprus (Republic of)	32	31200	31231	280
Czech Republic	128	16128	16255	230
Democratic People's Republic of Korea	32	11072	11103	467
Denmark	128	22528	22655	238
Diego Garcia	16	8880	8895	N/A
Djibouti (Republic of)	16	8912	8927	638
Dominica (Commonwealth of)	16	9616	9631	366
Dominican Republic	16	8832	8847	370
Ecuador	32	31296	31327	740
Egypt (Arab Republic of)	32	8224	8255	602
El Salvador (Republic of)	32	32704	32735	706
Equatorial Guinea (Republic of)	32	9376	9407	627
Eritrea	0	N/A	N/A	657
Estonia (Republic of)	0	N/A	N/A	248
Ethiopia (Federal Democratic Republic of)	32	9760	9791	636
Falkland Islands (Malvinas)	16	7968	7983	N/A
Farøe Islands (Denmark)	16	7936	7951	288
Fiji	16	10960	10975	542
Finland	128	24448	24575	244
France	256	23680	23935	208
French Polynesia (French Overseas Territory)	16	11248	11263	547
Gabonese Republic	32	9408	9439	628

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Table 6-1 SID Listing by Country or Geographical Area (continued)

Country or Geographical Area	Quantity	Low SID	High SID	MCC
Gambia (Republic of the)	32	8544	8575	607
Germany (Federal Republic of)	256	22016	22271	262
Ghana	32	9216	9247	620
Gibraltar	16	31440	31455	266
Greece	128	24192	24319	202
Greenland (Denmark)	16	7952	7967	290
Grenada*	16	8064	8079	352
Guadeloupe (French Department of)	16	31360	31375	340
Guam	16	9696	9711	535
Guatemala (Republic of)	32	32672	32703	704
Guiana (French Department of)	32	31328	31359	742
Guinea (Republic of)	32	8800	8831	611
Guinea - Bissau (Republic of)	32	9536	9567	632
Guyana	32	31264	31295	738
Haiti (Republic of)	32	32608	32639	372
Honduras (Republic of)*	32	32736	32767	708
Hong Kong*	16	10640	10655	454
Hungary (Republic of)	128	15744	15871	216
Iceland	32	24416	24447	274
India (Republic of)	384	14464	14847	404
Indonesia (Republic of)	128	10496	10623	510
Iran (Islamic Republic of)	128	15616	15743	432
Iraq (Republic of)	32	15456	15487	418
Ireland	32	24384	24415	272
Israel (State of)	32	8448	8479	425
Italy	256	23168	23423	222
Jamaica	16	8176	8191	338
Japan*	1024	12288	13311	440-441
Jordan (Hashemite Kingdom of)	32	15392	15423	416
Kazakstan (Republic of)	0	N/A	N/A	401
Kenya (Republic of)	32	9856	9887	639
Kiribati (Republic of)	16	11200	11215	545
Korea (Republic of)*	128	2176	2303	450
Kuwait (State of)	16	11312	11327	419
Kyrgyz Republic	0	N/A	N/A	437
Lao People's Democratic Republic	32	13440	13471	457
Latvia (Republic of)	0	N/A	N/A	247
Lebanon	32	15360	15391	415
Lesotho (Kingdom of)	16	9600	9615	651
Liberia (Republic of)	32	9152	9183	618
Libya (Socialist People's Libyan Arab Jamahiriya)	32	8512	8543	606
Liechtenstein (Principality of)	0	N/A	N/A	295

Table 6-1 SID Listing by Country or Geographical Area (continued)

Country or Geographical Area	Quantity	Low SID	High SID	MCC
Lithuania (Republic of)	0	N/A	N/A	246
Luxembourg	32	24352	24383	270
Macau	16	11296	11311	455
Madagascar (Republic of)	32	10048	10079	646
Malawi	32	10144	10175	650
Malaysia	128	10368	10495	502
Maldives (Republic of)	32	13536	13567	472
Mali (Republic of)	32	8768	8799	610
Malta	16	31472	31487	278
Marshall Islands	16	11280	11295	N/A
Martinique (French Dept. of)	16	31376	31391	340
Mauritania (Islamic Republic of)	32	8736	8767	609
Mauritius (Republic of)	32	9120	9151	617
Mexico*	1024	24576	25599	334
Micronesia (Federated States of)	32	11040	11071	550
Moldova (Republic of)	0	N/A	N/A	259
Monaco (Principality of)	16	10752	10767	212
Mongolia	32	15520	15551	428
Montserrat	16	8048	8063	354
Morocco (Kingdom of)	32	8256	8287	604
Mozambique (Republic of)	32	9984	10015	643
Myanmar (Union of)	128	15232	15359	414
Namibia (Republic of)	32	10112	10143	649
Nauru (Republic of)	16	10896	10911	536
Nepal	32	15552	15583	429
Netherlands (Kingdom of the)	128	24064	24191	204
Netherlands Antilles*	16	31392	31407	362
New Caledonia (French Overseas Territory)	16	11216	11231	546
New Zealand	128	8576	8703	530
Nicaragua	32	32512	32543	710
Niger (Republic of the)	32	9024	9055	614
Nigeria (Federal Republic of)	32	9248	9279	621
Niue Island	16	11152	11167	N/A
Northern Mariana Islands (Commonwealth of the)	16	9680	9695	534
Norway	128	22272	22399	242
Oman (Sultanate of)	16	11344	11359	422
Pakistan (Islamic Republic of)	128	14848	14975	410
Palau	16	10976	10991	N/A
Panama (Republic of)	32	32576	32607	714
Papua New Guinea	32	11008	11039	537
Paraguay (Republic of)	32	31104	31135	744

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Table 6-1 SID Listing by Country or Geographical Area (continued)

Country or Geographical Area	Quantity	Low SID	High SID	MCC
Peru	128	32384	32511	716
Philippines (Republic of the)	16	10624	10639	515
Philippines (Republic of the)	96	10656	10751	515
Poland (Republic of)	128	16256	16383	260
Portugal	32	24320	24351	268
Qatar (State of)	16	31424	31439	427
Reunion (French Dept. of)	16	8944	8959	647
Romania	128	16000	16127	226
Russian Federation	896	11392	12287	250
Rwandese Republic	32	9728	9759	635
Saint Kitts* and Nevis	16	8032	8047	356
Saint Lucia*	12	8016	8027	358
Saint Pierre and Miquelon (Collectivit Territoriale de Republique Francaise)	16	10816	10831	308
Saint Pierre and Miquelon (Collectivit Territoriale de Republique Francaise)	16	7984	7999	308
Saint Vincent* and the Grenadines	16	8000	8015	360
San Marino (Republic of)	16	10768	10783	292
São Tome and Principe (Democratic Republic of)	16	8864	8879	626
Satellite (Globalstar Gateways)	64	7808	7871	N/A
Saudi Arabia (Kingdom of)	32	15488	15519	420
Senegal (Republic of)	32	8704	8735	608
Seychelles (Republic of)	16	8896	8911	633
Sierra Leone	32	9184	9215	619
Singapore (Republic of)*	16	9664	9679	525
Slovak Republic	0	N/A	N/A	231
Slovenia (Republic of)	0	N/A	N/A	293
Solomon Islands	16	10928	10943	540
Somali Democratic Republic	32	9792	9823	637
South Africa (Republic of)	128	10240	10367	655
Spain	128	23552	23679	214
Sri Lanka (Democratic Socialist Republic of)	128	15104	15231	413
Sudan (Republic of the)	32	9568	9599	634
Suriname (Republic of)	32	31136	31167	746
Swaziland (Kingdom of)	16	9632	9647	653
Sweden	128	22400	22527	240
Switzerland (Confederation of) & Liechtenstein (Principality of)	128	23040	23167	228
Syrian Arab Republic	32	15424	15455	417
Taiwan, The Republic of China	32	13504	13535	466
Tajikistan (Republic of)	0	N/A	N/A	436
Tanzania (United Republic of)	32	9888	9919	640

Table 6-1 SID Listing by Country or Geographical Area (continued)

Country or Geographical Area	Quantity	Low SID	High SID	MCC
Thailand	32	8192	8223	520
The Former Yugoslav Republic of Macedonia	0	N/A	N/A	294
Togolese Republic	32	9056	9087	615
Tokelau	16	11264	11279	N/A
Tonga (Kingdom of)	16	10912	10927	539
Trinidad and Tobago	32	9824	9855	374
Tunisia	32	8480	8511	605
Turkey	128	14336	14463	286
Turkmenistan	0	N/A	N/A	438
Turks and Caicos Islands	16	10800	10815	376
Tuvalu	16	11232	11247	N/A
Uganda (Republic of)	32	9920	9951	641
Ukraine	0	N/A	N/A	255
United Arab Emirates	16	11376	11391	424, 430 (Abu Dhabi), 431 (Dubai)
United Kingdom	256	22656	22911	234-235
United States of America - PCS*	«7679-4095 »	4096	7679	N/A
United States of America - Reserved	1792	2304	4095	N/A
United States of America*	2176	0	2175	310-316, (Puerto Rico uses 330 and Virgin Islands uses 332)
Uruguay (Eastern Republic of)	32	31168	31199	748
Uzbekistan (Republic of)	1	11555	11555	434
Uzbekistan (Republic of)	1	11600	11600	434
Vanuatu (Republic of)	16	10944	10959	541
Vatican City State	0	N/A	N/A	225
Venezuela (Republic of)	128	31488	31615	734
Viet Nam (Socialist Republic of)	128	13312	13439	452
Wallis and Futuna (French Overseas Territory)	16	10992	11007	543
Western Samoa (Independent State of)	16	11184	11199	549
Yemen Arab (Republic of)	16	11328	11343	421
Yemen Arab (Republic of)	16	11360	11375	421
Yugoslavia (Federal Republic of)	128	23424	23551	220
Zambia (Republic of)	32	10016	10047	645
Zimbabwe (Republic of)	32	10080	10111	648

Table 6-2 Decimal SID Listing

Low SID	High SID	Quantity	Country or Geographical Area	MCC
0	2175	2176	United States of America*	310-316, (Puerto Rico uses 330 and Virgin Islands uses 332)
2176	2303	128	Korea (Republic of)*	450
2304	4095	1792	United States of America – Reserved	N/A
4096	7679	«7679- 4095 »	United States of America – PCS*	N/A
7680	7807	128	Australia – Reserved	505
7808	7871	64	Satellite (Globalstar Gateways)	N/A
7936	7951	16	Farøe Islands (Denmark)	288
7952	7967	16	Greenland (Denmark)	290
7968	7983	16	Falkland Islands (Malvinas)	N/A
7984	7999	16	Saint Pierre and Miquelon (Collectivité Territoriale de République Française)	308
8000	8015	16	Saint Vincent* and the Grenadines	360
8016	8031	16	Saint Lucia*	358
8032	8047	16	Saint Kitts* and Nevis	356
8048	8063	16	Montserrat	354
8064	8079	16	Grenada*	352
8080	8095	16	Bahamas (Commonwealth of the)*	364
8096	8111	16	Bermuda	350
8112	8127	16	British Virgin Islands*	348
8128	8143	16	Cayman Islands*	346
8144	8159	16	Antigua and Barbuda	344
8160	8175	16	Barbados*	342
8176	8191	16	Jamaica	338
8192	8223	32	Thailand	520
8224	8255	32	Egypt (Arab Republic of)	602
8256	8287	32	Morocco (Kingdom of)	604
8288	8319	32	Algeria (People's Democratic Republic of)	603
8320	8447	128	Australia	505
8448	8479	32	Israel (State of)	425
8480	8511	32	Tunisia	605
8512	8543	32	Libya (Socialist People's Libyan Arab Jamahiriya)	606
8544	8575	32	Gambia (Republic of the)	607
8576	8703	128	New Zealand	530
8704	8735	32	Senegal (Republic of)	608
8736	8767	32	Mauritania (Islamic Republic of)	609
8768	8799	32	Mali (Republic of)	610

Table 6-2 Decimal SID Listing (continued)

Low SID	High SID	Quantity	Country or Geographical Area	MCC
8800	8831	32	Guinea (Republic of)	611
8832	8847	16	Dominican Republic	370
8848	8863	16	Cape Verde (Republic of)	625
8864	8879	16	São Tome and Principe (Democratic Republic of)	626
8880	8895	16	Diego Garcia	N/A
8896	8911	16	Seychelles (Republic of)	633
8912	8927	16	Djibouti (Republic of)	638
8928	8943	16	Reserved System Identifications (SIDs)	N/A
8944	8959	16	Reunion (French Dept. of)	647
8960	8991	32	Côte d'Ivoire	612
8992	9023	32	Burkina Faso	613
9024	9055	32	Niger (Republic of the)	614
9056	9087	32	Togolese Republic	615
9088	9119	32	Benin (Republic of)	616
9120	9151	32	Mauritius (Republic of)	617
9152	9183	32	Liberia (Republic of)	618
9184	9215	32	Sierra Leone	619
9216	9247	32	Ghana	620
9248	9279	32	Nigeria (Federal Republic of)	621
9280	9311	32	Chad (Republic of)	622
9312	9343	32	Central African Republic	623
9344	9375	32	Cameroon (Republic of)	624
9376	9407	32	Equatorial Guinea (Republic of)	627
9408	9439	32	Gabonese Republic	628
9440	9503	64	Congo (Democratic Republic of)	629-630
9504	9535	32	Angola (Republic of)	631
9536	9567	32	Guinea – Bissau (Republic of)	632
9568	9599	32	Sudan (Republic of the)	634
9600	9615	16	Lesotho (Kingdom of)	651
9616	9631	16	Dominica (Commonwealth of)	366
9632	9647	16	Swaziland (Kingdom of)	653
9648	9663	16	Aruba	363
9664	9679	16	Singapore (Republic of)*	525
9680	9695	16	Northern Mariana Islands (Commonwealth of the)	534
9696	9711	16	Guam	535
9712	9727	16	Australian External Territories	505
9728	9759	32	Rwandese Republic	635
9760	9791	32	Ethiopia (Federal Democratic Republic of)	636
9792	9823	32	Somali Democratic Republic	637
9824	9855	32	Trinidad and Tobago	374

Table 6-2 Decimal SID Listing (continued)

Low SID	High SID	Quantity	Country or Geographical Area	MCC
9856	9887	32	Kenya (Republic of)	639
9888	9919	32	Tanzania (United Republic of)	640
9920	9951	32	Uganda (Republic of)	641
9952	9983	32	Burundi (Republic of)	642
9984	10015	32	Mozambique (Republic of)	643
10016	10047	32	Zambia (Republic of)	645
10048	10079	32	Madagascar (Republic of)	646
10080	10111	32	Zimbabwe (Republic of)	648
10112	10143	32	Namibia (Republic of)	649
10144	10175	32	Malawi	650
10176	10207	32	Botswana (Republic of)	652
10208	10239	32	Comoros (Islamic Federal Republic of the)	654
10240	10367	128	South Africa (Republic of)	655
10368	10495	128	Malaysia	502
10496	10623	128	Indonesia (Republic of)	510
10624	10639	16	Philippines (Republic of the)	515
10640	10655	16	Hong Kong*	454
10656	10751	96	Philippines (Republic of the)	515
10752	10767	16	Monaco (Principality of)	212
10768	10783	16	San Marino (Republic of)	292
10784	10799	16	Reserved System Identifications (SIDs)	N/A
10800	10815	16	Turks and Caicos Islands	376
10816	10831	16	Saint Pierre and Miquelon (Collectivité Territoriale de République Française)	308
10832	10879	48	Reserved System Identifications (SIDs)	N/A
10880	10895	16	Brunei Darussalam	528
10896	10911	16	Nauru (Republic of)	536
10912	10927	16	Tonga (Kingdom of)	539
10928	10943	16	Solomon Islands	540
10944	10959	16	Vanuatu (Republic of)	541
10960	10975	16	Fiji	542
10976	10991	16	Palau	N/A
10992	11007	16	Wallis and Futuna (French Overseas Territory)	543
11008	11039	32	Papua New Guinea	537
11040	11071	32	Micronesia (Federated States of)	550
11072	11103	32	Democratic People's Republic of Korea	467
11104	11135	32	Cambodia (Kingdom of)	456
11136	11151	16	Cook Islands	548
11152	11167	16	Niue Island	N/A
11168	11183	16	American Samoa	544
11184	11199	16	Western Samoa (Independent State of)	549
11200	11215	16	Kiribati (Republic of)	545

Table 6-2 Decimal SID Listing (continued)

Low SID	High SID	Quantity	Country or Geographical Area	MCC
11216	11231	16	New Caledonia (French Overseas Territory)	546
11232	11247	16	Tuvalu	N/A
11248	11263	16	French Polynesia (French Overseas Territory)	547
11264	11279	16	Tokelau	N/A
11280	11295	16	Marshall Islands	N/A
11296	11311	16	Macau	455
11312	11327	16	Kuwait (State of)	419
11328	11343	16	Yemen Arab (Republic of)	421
11344	11359	16	Oman (Sultanate of)	422
11360	11375	16	Yemen Arab (Republic of)	421
11376	11391	16	United Arab Emirates	424, 430 (Abu Dhabi), 431 (Dubai)
11392	11554	163	Russian Federation	250
11555	11555	1	Uzbekistan (Uzdunrobita)	434
11556	11599	44	Russian Federation	250
11600	11600	1	Uzbekistan (U-tel)	434
11601	12287	687	Russian Federation	250
12288	13311	1024	Japan*	440-441
13312	13439	128	Viet Nam (Socialist Republic of)	452
13440	13471	32	Lao People's Democratic Republic	457
13472	13503	32	Bangladesh (People's Republic of)*	470
13504	13535	32	Taiwan, The Republic of China	466
13536	13567	32	Maldives (Republic of)	472
13568	14335	768	China (Peoples Republic of)	460-461
14336	14463	128	Turkey	286
14464	14847	384	India (Republic of)	404
14848	14975	128	Pakistan (Islamic Republic of)	410
14976	15103	128	Afghanistan (Islamic State of)	412
15104	15231	128	Sri Lanka (Democratic Socialist Republic of)	413
15232	15359	128	Myanmar (Union of)	414
15360	15391	32	Lebanon	415
15392	15423	32	Jordan (Hashemite Kingdom of)	416
15424	15455	32	Syrian Arab Republic	417
15456	15487	32	Iraq (Republic of)	418
15488	15519	32	Saudi Arabia (Kingdom of)	420
15520	15551	32	Mongolia	428
15552	15583	32	Nepal	429
15584	15615	32	Bulgaria (Republic of)	284
15616	15743	128	Iran (Islamic Republic of)	432

Table 6-2 Decimal SID Listing (continued)

Low SID	High SID	Quantity	Country or Geographical Area	MCC
15744	15871	128	Hungary (Republic of)	216
15872	15999	128	Reserved System Identifications (SIDs)	N/A
16000	16127	128	Romania	226
16128	16255	128	Czech Republic	230
16256	16383	128	Poland (Republic of)	260
16384	18431	2048	Canada	302
18432	22015	3584	Reserved System Identifications (SIDs)	N/A
22016	22271	256	Germany (Federal Republic of)	262
22272	22399	128	Norway	242
22400	22527	128	Sweden	240
22528	22655	128	Denmark	238
22656	22911	256	United Kingdom	234-235
22912	23039	128	Austria	232
23040	23167	128	Switzerland (Confederation of) & Liechtenstein (Principality of)	228
23168	23423	256	Italy	222
23424	23551	128	Yugoslavia (Federal Republic of)	220
23552	23679	128	Spain	214
23680	23935	256	France	208
23936	24063	128	Belgium	206
24064	24191	128	Netherlands (Kingdom of the)	204
24192	24319	128	Greece	202
24320	24351	32	Portugal	268
24352	24383	32	Luxembourg	270
24384	24415	32	Ireland	272
24416	24447	32	Iceland	274
24448	24575	128	Finland	244
24576	25599	1024	Mexico*	334
25600	26111	512	China (Peoples Republic of)	460-461
26112	31103	4992	EXCLUDED FROM ASSIGNMENT - See §6.1.1	N/A
31104	31135	32	Paraguay (Republic of)	744
31136	31167	32	Suriname (Republic of)	746
31168	31199	32	Uruguay (Eastern Republic of)	748
31200	31231	32	Cyprus (Republic of)	280
31232	31263	32	Bolivia (Republic of)	736
31264	31295	32	Guyana	738
31296	31327	32	Ecuador	740
31328	31359	32	Guiana (French Department of)	742
31360	31375	16	Guadeloupe (French Department of)	340
31376	31391	16	Martinique (French Dept. of)	340
31392	31407	16	Netherlands Antilles*	362
31408	31423	16	Bahrain (State of)	426

Table 6-2 Decimal SID Listing (continued)

Low SID	High SID	Quantity	Country or Geographical Area	MCC
31424	31439	16	Qatar (State of)	427
31440	31455	16	Gibraltar	266
31456	31471	16	Albania (Republic of)	276
31472	31487	16	Malta	278
31488	31615	128	Venezuela (Republic of)	734
31616	31743	128	Colombia (Republic of)*	732
31744	31871	128	Chile	730
31872	32127	256	Brasil (Federative Republic of)	724
32128	32255	128	Argentina Republic	722
32256	32383	128	Cuba	368
32384	32511	128	Peru	716
32512	32543	32	Nicaragua	710
32544	32575	32	Costa Rica	712
32576	32607	32	Panama (Republic of)	714
32608	32639	32	Haiti (Republic of)	372
32640	32671	32	Belize	702
32672	32703	32	Guatemala (Republic of)	704
32704	32735	32	El Salvador (Republic of)	706
32736	32767	32	Honduras (Republic of)*	708

7. OTHER ANSI/TIA/EIA-41 PARAMETER NUMBERING CONSIDERATIONS

ANSI-41 supports numerous parameters that require national network administration. Some of these parameters are:

- | | |
|--|-----------------------------|
| 1. BillingID (BILLID) | (see ANSI-41.5, §6.5.2.16) |
| 2. CarrierDigits (CARDGTS) | (see ANSI-41.5, §6.5.2.28) |
| 3. MobileSwitchingCenterIdentification (MSCID) | (see ANSI-41.5, §6.5.2.82) |
| 4. MSCIdentificationNumber (MSCIN) | (see ANSI-41.5, §6.5.2.83) |
| 5. PointCode_SubSystemNumber (PC_SSN) | (see ANSI-41.5, §6.5.2.93) |
| 6. SenderIdentificationNumber (SENDERIN) | (see ANSI-41.5, §6.5.2.116) |

8. ADMINISTRATION OF THIS DOCUMENT

While every effort has been made to ensure the accuracy of this document, especially in the case of those wireless systems that have already been commissioned, it is possible that an error or omission might exist. In recognition of this possibility, and therefore in order to provide for expedited updating, this document has been issued as a Telecommunication Systems Bulletin.

Any organization aware of information relevant to this bulletin should address all correspondence regarding this bulletin to:

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Upon receipt of the inquiry, the matter will be researched. If an update to this Bulletin is warranted, it will be prepared and published in the next revision. The responsible committee will notify if necessary, the individual or organizations affected after approval even though publication may not yet have occurred.

ANNEX A KNOWN SID CONFLICTS

As of the date of publication, a number of systems were believed to be in conflict with the provisions of this Bulletin (and therefore with ANSI/EIA/TIA-553). The following table was prepared using information provided by sources believed to be reliable; however, the accuracy of its contents cannot be guaranteed. Questions should be directed to the cognizant licensing authority or the appropriate system operator. To assist in the maintenance of accurate records, it would be appreciated if information regarding errors or omissions be forwarded to the TIA as provided in Section 8.

It is recommended, to the extent possible, that the systems not in compliance take appropriate corrective action at the earliest possible date in order to avoid subscriber impact.

Table A-1 Known SID Conflicts

SID IN CONFLICT	COUNTRY USING CONFLICTING SID (Service provider, if known)	COUNTRY TO WHICH SID IS ALLOCATED
00013	Hong Kong (Hutchison Telecom)	United States
00136	Netherlands Antilles (St. Maarten Boatphone)	United States
00700	Cayman Islands (Cable and Wireless)	United States
01111-01113	Republic of Korea for AMPS system	United States
01235	Philippines (Piltel)	United States
01525	Mexico (Mexico City) (IUSACEL)	United States
01700	Republic of Korea (Shinsegi Telecom)	United States
01901	Russia (Vimpelcom)	United States
04100	Venezuela (Movilnet)	United States (American Samoa)
04101	Venezuela (Movilnet)	United States
04110	Venezuela (Movilnet)	United States
04120	Venezuela (Movilnet)	United States
04130	Venezuela (Movilnet)	United States (Guam-Northern Mariana Islands)
04140	Venezuela (Movilnet)	United States
04150	Venezuela (Movilnet)	United States
04369	Republic of Korea	United States
04369-04371	Republic of Korea	United States
04370	Republic of Korea	United States
04371	Republic of Korea	United States
05732	Colombia (Celumovil)	United States
05734	Colombia (Celumovil)	United States
05772	Colombia (Celumovil)	United States
06190-06191	British Virgin Islands	United States
08002-08003	Grenada	Saint Vincent
08010-08011	Saint Lucia (Saint Lucia Boatphone)	Saint Vincent
08166	Saint Kitts	Barbados
12461	Bangladesh	Japan
12561	Singapore (SingTel Mobile)	Japan
32752	Bahamas (Bahamas Telecom)	Honduras