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*Date: 22 June 2006*



3RD GENERATION  
PARTNERSHIP  
PROJECT 2  
"3GPP2"

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2 **3GPP2 System Capability Guide**

3 **Release B**

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1 **INTRODUCTION**

2 This document is the 3GPP2 System Capability Guide (SCG) for 3GPP2 wireless  
3 telecommunication systems. It is developed and maintained under the  
4 auspices of 3GPP2 TSG-S, the TSG for Services and Systems Aspects for  
5 3GPP2.

6 • **DOCUMENT PURPOSE**

7 The objective of this document is to provide an overview for and reference  
8 to the 3GPP2 wireless telecommunication system capabilities, features,  
9 and services. This document is intended for use by persons and/or  
10 companies who are developing and/or deploying 3GPP2 wireless  
11 telecommunication systems or by persons who are otherwise interested  
12 in 3GPP2 wireless telecommunication systems.

13 • **DOCUMENT OVERVIEW**

14 This document includes the following sections:

- 15 • INTRODUCTION AND 3GPP2 SYSTEM OVERVIEW
- 16 • cdma2000 AIR INTERFACE CAPABILITIES
  - 17 • PHYSICAL LAYER
  - 18 • MAC LAYER
  - 19 • LAC LAYER
  - 20 • LAYER 3 SIGNALING
- 21 • ACCESS NETWORK CAPABILITIES
- 22 • INTERSYSTEM CAPABILITIES
- 23 • OTHER 3GPP2 SYSTEM FEATURES
- 24 • DATA SERVICES
  - 25 • CIRCUIT-SWITCHED DATA
  - 26 • PACKET-SWITCHED DATA
- 27 • 3GPP2 SYSTEM SERVICES
- 28 • ANALOG AIR INTERFACE OPERATIONS AND CAPABILITIES
- 29 • ACRONYM LISTING AND CROSS REFERENCE

30 • **DOCUMENT APPLICABILITY**

31 This document is applicable to the 3GPP2 wireless telecommunications  
32 system Release B. However, this document may also include references  
33 to previously issued standards and specifications.  
34

1 • **DOCUMENT REFERENCES**

2 This document references all 3GPP2 specifications and reports based on  
3 the 3GPP2 Document Reference Listing which is included in the  
4 Appendix of this document. All documents included in that list are also  
5 considered implicit references for this SCG document.

6 The 3GPP2 Service Implementation Guide (SIG) is a companion  
7 document to this SCG document which details the use of existing 3GPP2  
8 signaling to implement new system services. That document is  
9 referenced in the 3GPP2 SYSTEM SERVICES section of this document.



1 **3GPP2 OVERVIEW AND BACKGROUND**

2 The 3GPP2 (3rd Generation Partnership Project 2) is a partnership of  
 3 standards development organizations (SDOs). The 3GPP2 Organizational  
 4 Partners include, along with their regional areas of interest, the following  
 5 SDOs:

<b>ORGANIZATIONAL PARTNER</b>		<b>REGIONAL AREA OF INTEREST</b>
<b>ARIB</b>	Association of Radio Industries and Business	Japan
<b>CWTS</b>	China Wireless Telecommunication Standard Group	China
<b>TIA</b>	Telecommunications Industry Association	NAFTA countries including USA, Canada, and Mexico
<b>TTA</b>	Telecommunications Technology Association	Korea
<b>TTC</b>	Telecommunication Technology Committee	Japan

6

7 3GPP2 is an effort spearheaded by the original four (4) Organizational Partners  
 8 (i.e., ARIB, TIA, TTA, and TTC) to establish a Partnership Project for the 3G  
 9 wireless communication systems using evolved ANSI/TIA/EIA-41, "Cellular  
 10 Radio telecommunication Intersystem Operations" networks and related RTTs.  
 11 This effort was initiated in response to concerns regarding ETSI's unwillingness  
 12 to include non-GSM technologies in their proposal for the establishment of the  
 13 3G Partnership Project (3GPP). The inaugural meeting of the 3GPP2 Steering  
 14 Committee was held in January 1999 in Vancouver, BC where the partnership  
 15 documents and working procedures were also officially agreed. CWTS's  
 16 application for membership as an Organizational Partner was officially  
 17 accepted in June 1999 in Seoul, Korea.

18 Participating SDOs have the right to submit 3GPP2 technical specifications for  
 19 approval and publication as standards, or parts of standards within their home  
 20 national or regional processes. This partnership project is a new way of  
 21 working among the existing organizations. It addresses the industry's need to  
 22 produce globally applicable specifications without altering the national or  
 23 regional scope of existing standards organizations.

24 The Technical Specification Groups (TSGs) currently formed within 3GPP2 for  
 25 specifying Release B are the following:

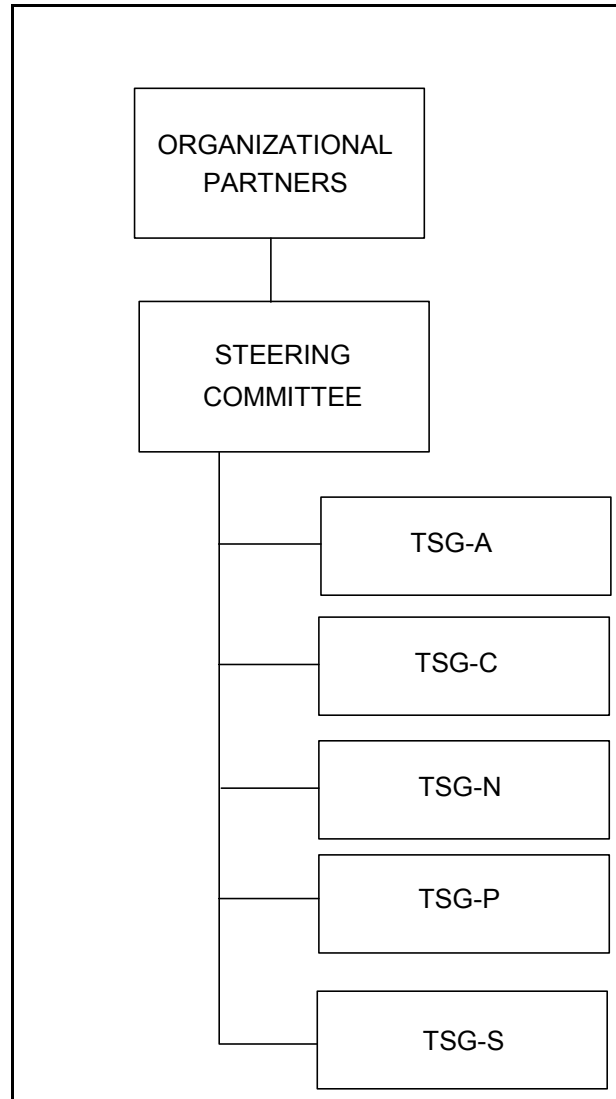
- 26 • TSG-A Access Network Interface
  - 27 • Physical links, transports and signaling
  - 28 • Support for access network mobility

29

- 1       •       3G Capabilities (e.g. High speed data support)
- 2       •       Abis interface
- 3       •       Interoperability Specification
- 4       •       Support for 3GPP2 Radio Access Technologies
- 5   •   TSG-C               cdma2000
- 6       •       Radio Layer 1 specification
- 7       •       Radio Layer 2 specification
- 8       •       Radio Layer 3 specification
- 9       •       MS/BS Radio Performance Specifications
- 10      •       Radio Link Protocol (RLP)
- 11      •       Support for enhanced privacy, authentication and encryption
- 12      •       Digital speech codecs and related minimum performance
- 13      •       specifications
- 14      •       Video codec selection, and specification of related video services
- 15      •       Data and other ancillary services support
- 16      •       Conformance test plans
- 17      •       Removable User Identity Module (R-UIM)
- 18      •       Location-based services support
- 19   •   TSG-N               Intersystem Operations
- 20      •       Evolution of Core Network to support interoperability and
- 21      •       Intersystem Operations
- 22      •       UIM support (Detachable and Integrated)
- 23      •       Support for enhanced privacy, authentication, encryption and
- 24      •       other security aspects.
- 25      •       VHE (Virtual Home Environment)
- 26      •       Support of New Supplemental Services (including ISDN
- 27      •       interworking)
- 28      •       Optimal Interoperability Specification for International Roaming
- 29      •       (e.g. Selection of required parameters options)
- 30      •       New Features for International Roaming (Global Emergency
- 31      •       Number, Optimal Routing)
- 32      •       IMT-2000 issues as necessary to ensure support of the ANSI-41
- 33      •       family member
- 34

- 1 • TSG-P Wireless Packet Data Networking
- 2 • Wireless IP services (including IP mobility management)
- 3 • Voice over IP
- 4 • AAA and security
- 5 • Private network access
- 6 • Internet/intranet access
- 7 • Multimedia support
- 8 • QoS support
- 9 • TSG-S Services and Systems Aspects
- 10 • Development and maintenance of 3GPP2 System Capabilities
- 11 Guide
- 12 • Development, management and maintenance of 3GPP2 Work Plan
- 13 • Stage 1 Services and Features Requirements Definition
- 14 • High-Level Functionality Description Development
- 15 • System Reference Model Development and Maintenance
- 16 • Requirements for International Roaming.
- 17 • Development of 3GPP2 OAM&P across all TSGs including
- 18 1) Stage 1 high-level requirements and 2) Stage 2 and Stage 3 for
- 19 the interface between network management system and element
- 20 management functions.
- 21 • High-level coordination of the work performed in other TSGs and
- 22 monitoring of progress.
- 23 • Coordination to resolve technical discrepancies between the works
- 24 undertaken by other TSGs.
- 25

1 The organizational structure of 3GPP2 is illustrated in Figure 1 below:



2

3

**Figure 1: 3GPP2 ORGANIZATIONAL STRUCTURE**

4

5 NOTE: Additional and more detailed information on 3GPP2 may be obtained at  
6 <http://www.3gpp2.org>.

7

1 **3GPP2 SYSTEM OVERVIEW**

2 The 3GPP2 wireless telecommunication system is a third generation (3G)  
3 wireless telecommunication system which was designed based on requirements  
4 proposed by the International Telecommunications Union (ITU) in it's IMT-2000  
5 initiative.

6 The 3GPP2 air interface (cdma2000) is a wideband spread spectrum radio  
7 interface that utilizes CDMA technology in order to meet the needs of the third  
8 generation (3G) wireless communication systems and to meet the requirements  
9 for the 3G evolution of the current TIA/EIA-95-B family of standards.

10 • **3GPP2 RELEASE B OBJECTIVES**

11 Basic design objectives of the 3GPP2 Release B system as enhanced from the  
12 cdma2000 Release A specifications are indicated below:

13 • **CORE CAPABILITY ENHANCEMENTS**

- 14 • cdma2000 Release B
- 15 • IOS v4.1 and v4.2
- 16 • Wireless IP Network Specification

17 • **SERVICE ADDITIONS/ENHANCEMENTS**

- 18 • Access Control Based on Call-Type
- 19 • Advice of Charge
- 20 • Allowing different multiplex options for FCH/DCCH
- 21 • Answer Hold
- 22 • Automatic Code Gapping
- 23 • Common Control Channel Support
- 24 • Diversity code combining in soft handoff
- 25 • Enhanced Rate Adaption Mode (ERAM)
- 26 • Freephone
- 27 • Low Data Rate Devices Support
- 28 • Network Support for MDN-based Message Centers
- 29 • New repetition and puncturing scheme for flexible/variable rate
- 30 • Prepaid
- 31 • Position determination services
- 32 • Preferred Language

33

- 1       •     Premium Rate Charging
- 2       •     Rejection of Undesired Annoying Calls
- 3       •     Rescue Channel for call recovery
- 4       •     R-UIM
- 5       •     User Selective Call Forwarding
- 6       •     STANDING SYSTEM REQUIREMENTS
- 7       •     Increased Battery Life for the Mobile
- 8       •     Full Support of cdma2000 Release 0 and Release A Systems
- 9       •     Physical Layer Optimization and Signaling Layer Support
- 10      •     Backward compatibility with previous releases of core network and
- 11             A-interface.
- 12

1 Additional details on the 3GPP2 wireless telecommunications system are  
 2 indicated below:

3 • **3GPP2 NETWORK BASIS**

4 In general, the 3GPP2 system is defined by the operation of three (3)  
 5 primary system interfaces as listed below:

- 6 • AIR INTERFACE
- 7 • RADIO ACCESS INTERFACE (i.e., A-INTERFACE)
- 8 • INTERSYSTEM INTERFACE

9 The basis of the 3GPP2 wireless telecommunications system is  
 10 summarized as follows:

- 11 • Intersystem interface and network architecture are based on  
 12 TIA/EIA-41 and TIA/EIA/IS-835.
- 13 • Radio access interface is based on the InterOperability System  
 14 (IOS) standard. Compliance with 3GPP2 A.S0001 is required for  
 15 full support of all applicable capabilities, features, and services  
 16 listed herein.
- 17 • Air interface is based on enhanced cdma2000 and is designed as  
 18 follows:
  - 19 • **BAND CLASS DESIGNATORS**

BAND CLASS DESIGNATOR	BAND
0	800 MHz BAND
1	1900 MHz BAND
2	TACS BAND
3	JTACS BAND
4	KOREAN PCS BAND
5	450 MHz BAND
6	2 GHz BAND
7	700 MHz BAND
8	1800 MHz BAND
9	900 MHz BAND

- 20
- 21
- 22 • **PHYSICAL CHANNELS**
  - 23 • 1.25 MHz SINGLE CHANNEL
  - 24 • 1xEV-DO CHANNEL
  - 25 • 3x-3x and 3x-1x MULTI-CARRIER CHANNEL (MC)
  - 26

- 1           •       OTHER BASIC CAPABILITIES
- 2                   •       SUPPORTS 2G MOBILES
- 3                   •       SUPPORT HANDOFF BETWEEN 2G/3G SYSTEMS
- 4                           AND BETWEEN 3G CHANNELS

5           Compliance with the latest versions of 3GPP2 C.S0001 through  
6           C.S0006 is required for full support of all applicable capabilities,  
7           features, and services listed herein.

8



1 • **3GPP2 NETWORK ARCHITECTURE**

2 The 3GPP2 Network Reference Model (NRM) is illustrated in Figure 2. It  
3 is described in substantially more detail in the 3GPP2 Network Reference  
4 Model document (3GPP2 S.R0005-B). Compliance with 3GPP2 S.R0005-  
5 B is required for full support of all applicable capabilities, features, and  
6 services listed herein.  
7

8 **Figure 2: 3GPP2 NETWORK REFERENCE MODEL**

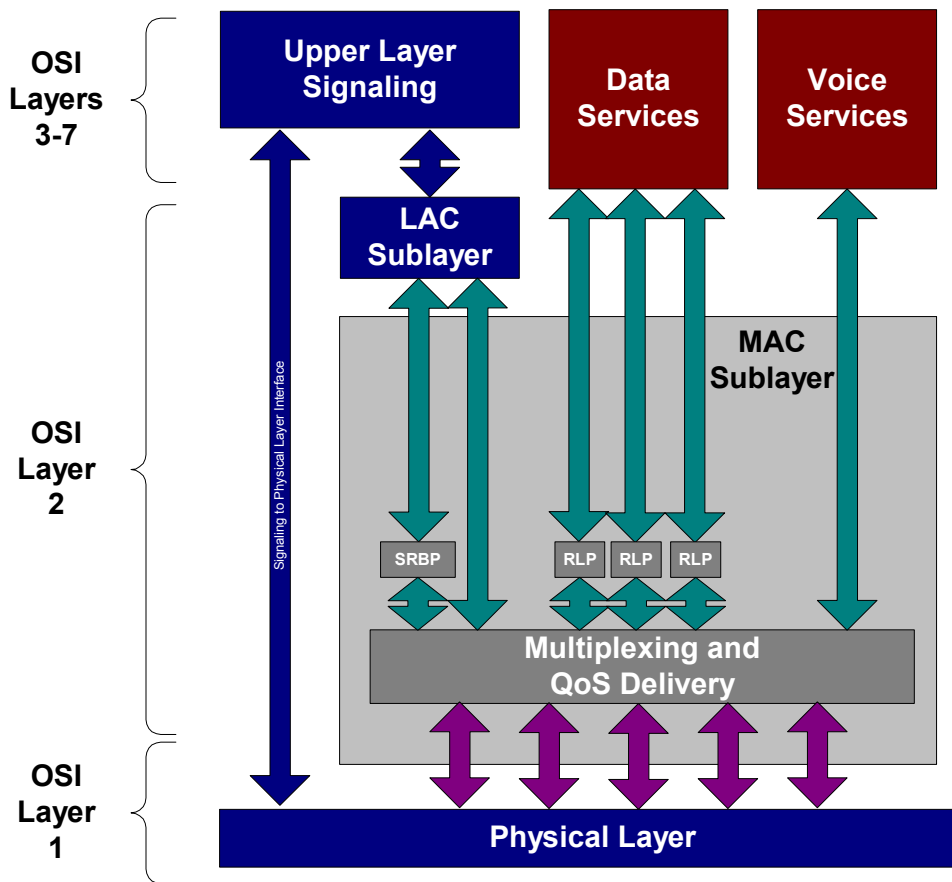
9

1 NOTE: An explanation of the terms used in Figure 2 may be obtained from the  
 2 "TIA Subcommittee TR-45.5 Final Inputs for the Draft IMT.RSPC Section 5" at  
 3 <http://www.itu.int/itudoc/itu-r/sg8/docs/tg8-1/1998-99/18th/index.html> .  
 4 However, an ITU-R TIES password is required for access.

5

6 • **3GPP2 AIR INTERFACE SIGNALING LAYERS**

7 The air interface of 3GPP2 systems has been developed based on the  
 8 ISO/OSI Reference Model layering requirements. The 3GPP2 layer  
 9 structure is illustrated below in Figure 3:



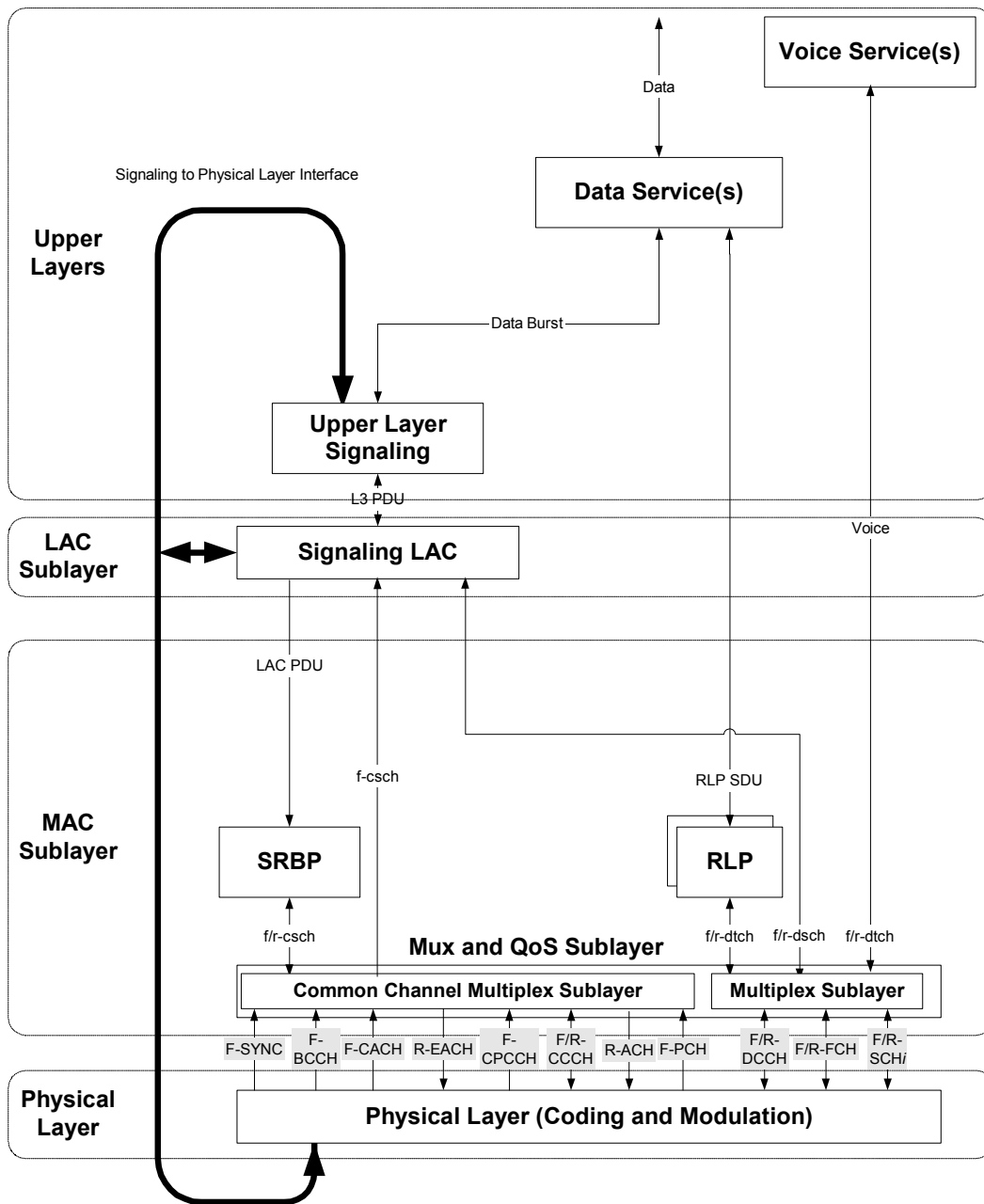
10

11

**Figure 3: AIR INTERFACE - SIMPLIFIED LAYERING DIAGRAM**

12

1 A more detailed architectural diagram is detailed in Figure 4 below:



2  
3  
4  
5

**Figure 4: AIR INTERFACE - GENERAL ARCHITECTURE**

1 Definitions of the 3GPP2 air interface layers are indicated below:

- 2 • **PHYSICAL LAYER:** Supports actual transmission and reception of  
3 signals between the mobile station and the base station including  
4 frequency selection with appropriate modulation and demodulation  
5 operations. The Physical Layer supports RF channel bandwidths  
6 of  $N \times 1.25$  MHz, where  $N$  is the Spreading Rate number and  $N = 1$   
7 and 3. The data rates, channel encoding, and modulation  
8 parameters supported on the Traffic Channels are specified by  
9 radio configurations. For Spreading Rates 1 and 3, there are six  
10 radio configurations for the reverse link and there are nine radio  
11 configurations for the forward link. Collectively, these radio  
12 configurations form the FDD MC-CDMA 1X and 3X. Spreading  
13 Rate 1 corresponds to 1X. Spreading Rate 3 corresponds to 3X.  
14 Radio Configurations 1 and 2 are specified to be backward  
15 compatible with TIA/EIA-95-B systems. The 3GPP2 air interface  
16 also supports a class of operational band plans as specified in the  
17 TIA/EIA/IS-2000 standard. The Physical Layer signaling  
18 corresponds to ISO/OSI Reference Model physical layer (i.e., layer  
19 1).
- 20 • **MEDIA ACCESS CONTROL (MAC) LAYER:** Supports multiple  
21 data service state machine instances, one for each active packet or  
22 circuit data service instance, with applicable QoS mechanisms on  
23 each. This layer supports the complex multi-media multi-service  
24 capabilities which are targeted for 3G wireless systems. The MAC  
25 Layer signaling corresponds to the “lower” portion (i.e., interface to  
26 the Physical Layer) of the ISO/OSI Reference Model Link Layer  
27 (i.e., layer 2). The MAC services are considered to be null when  
28 encoded voice data is transported directly by the Physical Layer  
29 (i.e., backward compatible with TIA/EIA-95-B). NOTE: The MAC  
30 Layer for 3GPP2 Release B includes support for one (1) voice  
31 and/or one (1) packet data service (data rates up to 2 Mbps)  
32 instance. The full multi-media call model will be supported in a  
33 future MAC Layer release.
- 34 • **LINK ACCESS CONTROL (LAC) LAYER:** Supports point-to-point  
35 transmission over the air for signaling services and (optionally) for  
36 circuit data services. The LAC Layer also provides the framework  
37 and services to transport encoded voice data in the form of packet  
38 data or circuit data traffic as a part of a multimedia call. The LAC  
39 Layer signaling corresponds to the “upper” portion (i.e., interface to  
40 the MAC Layer) of the ISO/OSI Reference Model Link Layer

1 (i.e., layer 2). The LAC services are considered to be null when  
2 encoded voice data is transported directly by the Physical Layer  
3 (i.e., backward compatible with TIA/EIA-95-B).

- 4 • **LAYER 3 SIGNALING:** Supports all other application and upper  
5 layer protocols (e.g. Signaling Services, Voice Services, Data  
6 Services (Packet Data and Circuit Data)). Layer 3 signaling  
7 corresponds to layers 3 and above as appropriate of the ISO/OSI  
8 Reference Model.
- 9 • The 3GPP2 layering structure is composed of two (2) separate  
10 planes: the Control Plane and the Data Plane. The principal  
11 advantage of this structuring is the clear definition of the service  
12 interfaces between all of the functional entities described by the  
13 cdma2000 layering structure.

14  
15 NOTE: Additional and more detailed technical information on the 3GPP2 air  
16 interface (cdma2000) may be obtained from the TIA Subcommittee TR-45.5  
17 Final Inputs for the Draft IMT.RSPC Section 5 at  
18 <http://www.itu.int/itudoc/itu-r/sg8/docs/tg8-1/1998-99/18th/index.html> .  
19 However, an ITU-R TIES password is required for access.



1 **3GPP2 AIR INTERFACE**

2 This section details the capabilities and features of the 3GPP2 air interface (cdma2000).

3 • **PHYSICAL LAYER**

4 The following are general physical layer capabilities of the 3GPP2 system.

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>BAND CLASS</b>	BAND CLASS 0		C.S0002 Section 2.1.1.1.1 C.S0002-A Section 2.1.1.1.1 C.S0002-A-1 Section 2.1.1.1.1 C.S0002-B Section 2.1.1.1.1
	BAND CLASS 1		C.S0002 Section 2.1.1.1.2 C.S0002-A Section 2.1.1.1.2 C.S0002-A-1 Section 2.1.1.1.2 C.S0002-B Section 2.1.1.1.2
	BAND CLASS 2		C.S0002-A Section 2.1.1.1.3 C.S0002-A-1 Section 2.1.1.1.3 C.S0002-B Section 2.1.1.1.3
	BAND CLASS 3		C.S0002-A Section 2.1.1.1.4 C.S0002-A-1 Section 2.1.1.1.4 C.S0002-B Section 2.1.1.1.4
	BAND CLASS 4		C.S0002-A Section 2.1.1.1.5 C.S0002-A-1 Section 2.1.1.1.5 C.S0002-B Section 2.1.1.1.5
	BAND CLASS 5		C.S0002-A Section 2.1.1.1.6 C.S0002-A-1 Section 2.1.1.1.6 C.S0002-B Section 2.1.1.1.6

5

1

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
	BAND CLASS 6		C.S0002-A Section 2.1.1.1.7 C.S0002-A-1 Section 2.1.1.1.7 C.S0002-B Section 2.1.1.1.7
	BAND CLASS 7		C.S0002-A Section 2.1.1.1.8 C.S0002-A-1 Section 2.1.1.1.8 C.S0002-B Section 2.1.1.1.8
	BAND CLASS 8		C.S0002-A-1 Section 2.1.1.1.9 C.S0002-B Section 2.1.1.1.9
	BAND CLASS 9		C.S0002-A-1 Section 2.1.1.1.10 C.S0002-B Section 2.1.1.1.10
<b>CDMA SYSTEM TIME</b>			C.S0002 Section 1.3 C.S0002-A Section 1.3 C.S0002-A-1 Section 1.3 C.S0002-B Section 1.3
<b>CHANNEL NAMING CONVENTION</b>			C.S0001 Section 2.2 C.S0001-A Section 2.2 C.S0002-A-1 Section 2.2 C.S0001-B Section 2.2
<b>CDMA CHANNEL MODULATION</b>	FORWARD CDMA CHANNELS		C.S0002 Section 3.1.3.1 C.S0002-A Section 3.1.3.1 C.S0002-A-1 Section 3.1.3.1 C.S0002-B Section 3.1.3.1
	REVERSE CDMA CHANNELS		C.S0002 Section 2.1.3.1 C.S0002-A Section 2.1.3.1 C.S0002-A-1 Section 2.1.3.1 C.S0002-B Section 2.1.3.1



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<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
<b>PHYSICAL CHANNELS</b>	ACCESS CHANNEL	R-ACH	C.S0002 Section 2.1.3.3 C.S0002-A Section 2.1.3.3 C.S0002-A-1 Section 2.1.3.3 C.S0002-B Section 2.1.3.3
	BROADCAST CONTROL CHANNEL	F-BCCH	C.S0002 Section 3.1.3.5 C.S0002-A Section 3.1.3.5 C.S0002-A-1 Section 3.1.3.5 C.S0002-B Section 3.1.3.5
	COMMON POWER CONTROL CHANNEL	F-CPCCH	C.S0002 Section 3.1.3.7 C.S0002-A Section 3.1.3.7 C.S0002-A-1 Section 3.1.3.7 C.S0002-B Section 3.1.3.7
	COMMON ASSIGNMENT CHANNEL	F-CACH	C.S0002 Section 3.1.3.8 C.S0002-A Section 3.1.3.8 C.S0002-A-1 Section 3.1.3.8 C.S0002-B Section 3.1.3.8
	ENHANCED ACCESS CHANNEL	R-EACH	C.S0002 Section 2.1.3.4 C.S0002-A Section 2.1.3.4 C.S0002-A-1 Section 2.1.3.4 C.S0002-B Section 2.1.3.4
	FORWARD COMMON CONTROL CHANNEL	F-CCCH	C.S0002 Section 3.1.3.9 C.S0002-A Section 3.1.3.9 C.S0002-A-1 Section 3.1.3.9 C.S0002-B Section 3.1.3.9

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1

<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
	FORWARD DEDICATED CONTROL CHANNEL	F-DCCH	C.S0002 Section 3.1.3.10 C.S0002-A Section 3.1.3.10 C.S0002-A-1 Section 3.1.3.10 C.S0002-B Section 3.1.3.10
	FORWARD FUNDAMENTAL CHANNEL	F-FCH	C.S0002 Section 3.1.3.11 C.S0002-A Section 3.1.3.11 C.S0002-A-1 Section 3.1.3.11 C.S0002-B Section 3.1.3.11
	FORWARD PILOT CHANNELS	F-PICH	C.S0002 Section 3.1.3.2 C.S0002-A Section 3.1.3.2 C.S0002-A-1 Section 3.1.3.2 C.S0002-B Section 3.1.3.2
	FORWARD SUPPLEMENTAL CHANNEL	F-SCH	C.S0002 Section 3.1.3.12 C.S0002-A Section 3.1.3.12 C.S0002-A-1 Section 3.1.3.12 C.S0002-B Section 3.1.3.12
	FORWARD SUPPLEMENTAL CODE CHANNEL	F-SCCH	C.S0002 Section 3.1.3.13 C.S0002-A Section 3.1.3.13 C.S0002-A-1 Section 3.1.3.13 C.S0002-B Section 3.1.3.13
	PAGING CHANNEL	F-PCH	C.S0002 Section 3.1.3.4 C.S0002-A Section 3.1.3.4 C.S0002-A-1 Section 3.1.3.4 C.S0002-B Section 3.1.3.4

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<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
	QUICK PAGING CHANNEL	F-QPCH	C.S0002 Section 3.1.3.6 C.S0002-A Section 3.1.3.6 C.S0002-A-1 Section 3.1.3.6 C.S0002-B Section 3.1.3.6
	REVERSE PILOT CHANNEL	R-PICH	C.S0002 Section 2.1.3.2 C.S0002-A Section 2.1.3.2 C.S0002-A-1 Section 2.1.3.2 C.S0002-B Section 2.1.3.2
	REVERSE COMMON CONTROL CHANNEL	R-CCCH	C.S0002 Section 2.1.3.5 C.S0002-A Section 2.1.3.5 C.S0002-A-1 Section 2.1.3.5 C.S0002-B Section 2.1.3.5
	REVERSE DEDICATED CONTROL CHANNEL	R-DCCH	C.S0002 Section 2.1.3.6 C.S0002-A Section 2.1.3.6 C.S0002-A-1 Section 2.1.3.6 C.S0002-B Section 2.1.3.6
	REVERSE FUNDAMENTAL CHANNEL	R-FCH	C.S0002 Section 2.1.3.7 C.S0002-A Section 2.1.3.7 C.S0002-A-1 Section 2.1.3.7 C.S0002-B Section 2.1.3.7
	REVERSE POWER CONTROL SUBCHANNEL		C.S0002 Section 2.3.1.10
	REVERSE SUPPLEMENTAL CHANNEL	R-SCH	C.S0002 Section 2.1.3.8 C.S0002-A Section 2.1.3.8 C.S0002-A-1 Section 2.1.3.8 C.S0002-B Section 2.1.3.8

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<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
	REVERSE SUPPLEMENTAL CODE CHANNEL	R-SCCH	C.S0002 Section 2.1.3.9 C.S0002-A Section 2.1.3.9 C.S0002-A-1 Section 2.1.3.9 C.S0002-B Section 2.1.3.9
	SYNC CHANNEL	F-SYNCH	C.S0002 Section 3.1.3.3 C.S0002-A Section 3.1.3.3 C.S0002-A-1 Section 3.1.3.3 C.S0002-B Section 3.1.3.3

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1 The following are mobile station capabilities which are supported by the 3GPP2 system.

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<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
<b>MINIMUM PERFORMANCE REQUIREMENTS</b>			C.S0011 C.S0011-A
<b>TRANSMITTER</b>	FREQUENCY PARAMETERS		C.S0002 Section 2.1.1 C.S0002-A Section 2.1.1 C.S0002-A-1 Section 2.1.1 C.S0002-B Section 2.1.1
	OUTPUT POWER CHARACTERISTICS		C.S0002 Section 2.1.2 C.S0002-A Section 2.1.2 C.S0002-A-1 Section 2.1.2 C.S0002-B Section 2.1.2
	MODULATION CHARACTERISTICS		C.S0002 Section 2.1.3 C.S0002-A Section 2.1.3 C.S0002-A-1 Section 2.1.3 C.S0002-B Section 2.1.3
	LIMITATIONS ON EMISSIONS		C.S0002 Section 2.1.4 C.S0002-A Section 2.1.4 C.S0002-A-1 Section 2.1.4 C.S0002-B Section 2.1.4
	SYNCHRONIZATION AND TIMING		C.S0002 Section 2.1.5 C.S0002-A Section 2.1.5 C.S0002-A-1 Section 2.1.5 C.S0002-B Section 2.1.5

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CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
	TRANSMITTER PERFORMANCE REQUIREMENTS		C.S0002 Section 2.1.6 C.S0002-A Section 2.1.6 C.S0002-A-1 Section 2.1.6 C.S0002-B Section 2.1.6
<b>RECEIVER</b>	CHANNEL SPACING AND DESIGNATION		C.S0002 Section 2.2.1 C.S0002-A Section 2.2.1 C.S0002-A-1 Section 2.2.1 C.S0002-B Section 2.2.1
	DEMODULATION CHARACTERISTICS		C.S0002 Section 2.2.2 C.S0002-A Section 2.2.2 C.S0002-A-1 Section 2.2.2 C.S0002-B Section 2.2.2
	LIMITATIONS ON EMISSIONS		C.S0002 Section 2.2.3 C.S0002-A Section 2.2.3 C.S0002-A-1 Section 2.2.3 C.S0002-B Section 2.2.3
	MALFUNCTION DETECTION		C.S0002 Section 2.2.4 C.S0002-A Section 2.2.4 C.S0002-A-1 Section 2.2.4 C.S0002-B Section 2.2.4

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1 The following are base station capabilities which are supported by the 3GPP2 system.

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<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
<b>MINIMUM PERFORMANCE REQUIREMENTS</b>			C.S0010 C.S0010-A
<b>TRANSMITTER</b>	FREQUENCY PARAMETERS		C.S0002 Section 3.1.1 C.S0002-A Section 3.1.1 C.S0002-A-1 Section 3.1.1 C.S0002-B Section 3.1.1
	OUTPUT POWER CHARACTERISTICS		C.S0002 Section 3.1.2 C.S0002-A Section 3.1.2 C.S0002-A-1 Section 3.1.2 C.S0002-B Section 3.1.2
	MODULATION CHARACTERISTICS		C.S0002 Section 3.1.3 C.S0002-A Section 3.1.3 C.S0002-A-1 Section 3.1.3 C.S0002-B Section 3.1.3
	LIMITATIONS ON EMISSIONS		C.S0002 Section 3.1.4 C.S0002-A Section 3.1.4 C.S0002-A-1 Section 3.1.4 C.S0002-B Section 3.1.4
	SYNCHRONIZATION, TIMING, AND PHASE		C.S0002 Section 3.1.5 C.S0002-A Section 3.1.5 C.S0002-A-1 Section 3.1.5 C.S0002-B Section 3.1.5

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CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
	TRANSMITTER PERFORMANCE REQUIREMENTS		C.S0002 Section 3.1.6 C.S0002-A Section 3.1.6 C.S0002-A-1 Section 3.1.6 C.S0002-B Section 3.1.6
<b>RECEIVER</b>	CHANNEL SPACING AND DESIGNATION		C.S0002 Section 3.2.1 C.S0002-A Section 3.2.1 C.S0002-A-1 Section 3.2.1 C.S0002-B Section 3.2.1
	DEMODULATION CHARACTERISTICS		C.S0002 Section 3.2.2 C.S0002-A Section 3.2.2 C.S0002-A-1 Section 3.2.2 C.S0002-B Section 3.2.2
	LIMITS ON EMISSIONS		C.S0002 Section 3.2.3 C.S0002-A Section 3.2.3 C.S0002-A-1 Section 3.2.3 C.S0002-B Section 3.2.3
	RECEIVER PERFORMANCE REQUIREMENTS		C.S0002 Section 3.2.4 C.S0002-A Section 3.2.4 C.S0002-A-1 Section 3.2.4 C.S0002-B Section 3.2.4

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1 • **VOCODER CAPABILITIES**

2 The following vocoder capabilities are supported by the 3GPP2 system.

FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>MINIMUM PERFORMANCE STANDARD FOR SPEECH OPTION 1</b>			C.S0012
<b>HIGH RATE (13 kbps) SPEECH SO</b>			C.S0020
- HIGH RATE SPEECH SO TTY/TDD ADDENDUM			C.S0020-0-1
- MINIMUM PERFORMANCE STANDARD FOR HR (13 kbps)			C.S0021
<b>ENHANCED VARIABLE RATE VOCODER</b>		EVRC	C.S0014
- EVRC ADDENDUM FOR REMOVAL OF BIT EXACT			C.S0014-0-1
- EVRC TTY/TDD ADDENDUM			C.S0014-0-2
- MINIMUM PERFORMANCE STANDARD FOR EVRC			C.S0018

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1 • **LOGICAL CHANNELS**

2 The following logical channels are supported by the 3GPP2 Release A system.

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>LOGICAL CHANNELS</b>	FORWARD COMMON SIGNALING CHANNEL	f-csch	C.S0003 C.S0003-A C.S0003-A-1 C.S0003-B
	FORWARD DEDICATED MAC CHANNEL	f-dmch	C.S0003 C.S0003-A C.S0003-A-1 C.S0003-B
	FORWARD DEDICATED SIGNALING CHANNEL	f-dsch	C.S0003 C.S0003-A C.S0003-A-1 C.S0003-B
	FORWARD DEDICATED TRAFFIC CHANNEL	f-dtch	C.S0003 C.S0003-A C.S0003-A-1 C.S0003-B
	REVERSE COMMON SIGNALING CHANNEL	r-csch	C.S0003 C.S0003-A C.S0003-A-1 C.S0003-B

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CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
	REVERSE DEDICATED MAC CHANNEL	r-dmch	C.S0003 C.S0003-A C.S0003-A-1 C.S0003-B
	REVERSE DEDICATED SIGNALING CHANNEL	r-dsch	C.S0003 C.S0003-A C.S0003-A-1 C.S0003-B
	REVERSE DEDICATED TRAFFIC CHANNEL	r-dtch	C.S0003 C.S0003-A C.S0003-A-1 C.S0003-B

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1 • **MAC LAYER CAPABILITIES**

2 The following are general MAC layer capabilities of the 3GPP2 system.

<b>□ CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
<b>OVERVIEW AND DEFINITION OF MAC COMPONENTS</b>			C.S0003 Section 1.7.1 C.S0003-A Section 1.6 C.S0003-A-1 Section 1.6 C.S0003-B Section 1.6
<b>LAYERING MODEL</b>			C.S0003 Section 1.7.2 C.S0003-A Section 1.6.1 C.S0003-A-1 Section 1.6.1 C.S0003-B Section 1.6.1
<b>SERVICE INTERFACES</b>			C.S0003 Section 1.8.1, Section 2.1 C.S0003-A Section 1.7.1, Section 2.1 C.S0003-A-1 Section 1.7.1, Section 2.1 C.S0003-B Section 1.7.1, Section 2.1
<b>ENTITIES OF MAC SUBLAYER</b>			C.S0003 Section 2.2 C.S0003-A Section 2.2 C.S0003-A-1 Section 2.2 C.S0003-B Section 2.2
- RESOURCE CONTROL			C.S0003 Section 2.2.1
- OBJECTS			C.S0003 Section 2.2.2
- CONTROL PLANE ENTITIES			C.S0003 Section 2.2.3
- DATA PLANE ENTITIES			C.S0003 Section 2.2.4
- FUNCTIONAL ENTITIES			C.S0003-A Section 2.2.1 C.S0003-A-1 Section 2.2.1 C.S0003-B Section 2.2.1

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□ CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
- SUPERVISORY PROCEDURES			C.S0003 Section 2.2.5 C.S0003-A Section 2.2.2 C.S0003-A-1 Section 2.2.2 C.S0003-B Section 2.2.2

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1 • **LAC LAYER CAPABILITIES**

2 The following reference is the conceptual model for the LAC Sublayer.

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>CONCEPTUAL MODEL FOR THE LAC SUBLAYER</b>			C.S0004 Annex A C.S0004-A Section 1.2 C.S0004-A-1 Section 1.2 C.S0004-B Section 1.2
<b>TIMERS AND CONSTANTS</b>			C.S0004 Annex B C.S0004-A Annex A C.S0004-A-1 Annex A C.S0004-B Annex A

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1 The following are general LAC layer capabilities of the 3GPP2 system for mobile stations.

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>COMMON CHANNEL OPERATION</b>			C.S0004 Section 2.1 C.S0004-A Section 2.1 C.S0004-A-1 Section 2.1 C.S0004-B Section 2.1
- TRANSMISSION ON R-CSCH			C.S0004 Section 2.1.1 C.S0004-A Section 2.1.1 C.S0004-A-1 Section 2.1.1 C.S0004-B Section 2.1.1
- RECEPTION ON F-CSCH			C.S0004 Section 2.1.2 C.S0004-A Section 2.1.2 C.S0004-A-1 Section 2.1.2 C.S0004-B Section 2.1.2
<b>DEDICATED CHANNEL OPERATION</b>			C.S0004 Section 2.2 C.S0004-A Section 2.2 C.S0004-A-1 Section 2.2 C.S0004-B Section 2.2
- TRANSMISSION ON R-CSCH			C.S0004 Section 2.2.1 C.S0004-A Section 2.2.1 C.S0004-A-1 Section 2.2.1 C.S0004-B Section 2.2.1
- RECEPTION ON F-CSCH			C.S0004 Section 2.2.2 C.S0004-A Section 2.2.2 C.S0004-A-1 Section 2.2.2 C.S0004-B Section 2.2.2

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1 The following are general LAC layer capabilities of the 3GPP2 system for base stations.

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>COMMON CHANNEL OPERATION</b>			C.S0004 Section 3.1 C.S0004-A Section 3.1 C.S0004-A-1 Section 3.1 C.S0004-B Section 3.1
- RECEPTION ON R-CSCH			C.S0004 Section 3.1.1 C.S0004-A Section 3.1.1 C.S0004-A-1 Section 3.1.1 C.S0004-B Section 3.1.1
- TRANSMISSION ON F-CSCH			C.S0004 Section 3.1.2 C.S0004-A Section 3.1.2 C.S0004-A-1 Section 3.1.2 C.S0004-B Section 3.1.2
<b>DEDICATED CHANNEL OPERATION</b>			C.S0004 Section 3.2 C.S0004-A Section 3.2 C.S0004-A-1 Section 3.2 C.S0004-B Section 3.2
- RECEPTION ON R-CSCH			C.S0004 Section 3.2.1 C.S0004-A Section 3.2.1 C.S0004-A-1 Section 3.2.1 C.S0004-B Section 3.2.1
- TRANSMISSION ON F-CSCH			C.S0004 Section 3.2.2 C.S0004-A Section 3.2.2 C.S0004-A-1 Section 3.2.2 C.S0004-B Section 3.2.2



1 • **LAYER 3 SIGNALING CAPABILITIES**

2 The following references illustrate the general overview of Layer 3 Signaling.

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>SIGNALING ARCHITECTURE</b>			C.S0005 Section 1.2 C.S0005-A Section 1.2 C.S0005-A-1 Section 1.2 C.S0005-B Section 1.2
<b>SIGNALING AND FUNCTIONALITY</b>			C.S0005 Section 1.3 C.S0005-A Section 1.3 C.S0005-A-1 Section 1.3 C.S0005-B Section 1.3

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1 The following are general Layer 3 Signaling capabilities of the 3GPP2 system for mobile stations.

<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
<b>SECURITY AND IDENTIFICATION</b>			C.S0005 Section 2.3 C.S0005-A Section 2.3 C.S0005-A-1 Section 2.3 C.S0005-B Section 2.3
<b>MONITORED QUANTITIES AND STATISTICS</b>			C.S0005 Section 2.4
<b>ACCUMULATED STATISTICS</b>			C.S0005-A Section 2.4 C.S0005-A-1 Section 2.4 C.S0005-B Section 2.4
<b>CALL PROCESSING</b>			C.S0005 Section 2.6
<b>LAYER 3 PROCESSING</b>			C.S0005-A Section 2.6 C.S0005-A-1 Section 2.6 C.S0005-B Section 2.6
<b>PDU FORMATS FOR MOBILE STATIONS</b>			C.S0005 Section 2.7 C.S0005-A Section 2.7 C.S0005-A-1 Section 2.7 C.S0005-B Section 2.7

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1 The following are general Layer 3 Signaling capabilities of the 3GPP2 system for base stations.

<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
<b>SECURITY AND IDENTIFICATION</b>			C.S0005 Section 3.3 C.S0005-A Section 3.3 C.S0005-A-1 Section 3.3 C.S0005-B Section 3.3
<b>SUPERVISION</b>			C.S0005 Section 3.4 C.S0005-A Section 3.4 C.S0005-A-1 Section 3.4 C.S0005-B Section 3.4
<b>CALL PROCESSING</b>			C.S0005 Section 3.6
<b>LAYER 3 PROCESSING</b>			C.S0005-A Section 3.6 C.S0005-A-1 Section 3.6 C.S0005-B Section 3.6
<b>PDU FORMATS FOR MESSAGES</b>			C.S0005 Section 3.7 C.S0005-A Section 3.7 C.S0005-A-1 Section 3.7 C.S0005-B Section 3.7

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1 • **HIGH-SPEED DATA CHANNEL (1xEV-DO) CAPABILITIES**

2 The following references illustrate the general overview of 1xEV-DO Channel Signaling.

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>OVERVIEW</b>			C.S0024 Section 1
<b>DEFAULT SIGNALING APPLICATION</b>			C.S0024 Section 2
<b>DEFAULT PACKET APPLICATION</b>			C.S0024 Section 3
<b>STREAM LAYER</b>			C.S0024 Section 4
<b>SESSION LAYER</b>			C.S0024 Section 5
<b>CONNECTION LAYER</b>			C.S0024 Section 6
<b>SECURITY LAYER</b>			C.S0024 Section 7
<b>MAC LAYER</b>			C.S0024 Section 8
<b>PHYSICAL LAYER</b>			C.S0024 Section 9
<b>COMMON ALGORITHMS AND DATA STRUCTURES</b>			C.S0024 Section 10
<b>REFERENCE TABLES</b>			C.S0024 Section 11
<b>1xEV-DO ASSIGNED NUMBERS</b>			C.S0024 Section 12

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4 • **CROSS MODE OPERATION CAPABILITIES**

5 The following are the hooks and extensions to the 3GPP2 system for support of 3GPP cross mode operations.

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>CDMA DS ON ANSI-41</b>			C.S0007 v2.0
<b>CDMA MC ON GSM-MAP</b>			C.S0008 v2.0

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1 **3GPP2 RADIO ACCESS NETWORK INTERFACE**

2 This section details the capabilities and features of the 3GPP2 access network interface (i.e., A-Interface).

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>MSC-BS INTERFACE MODEL</b>			A.S0001 Section 1.7 A.S0001.1 Section 1.7 A.S0001-A Section 1.7
<b>CALL PROCESSING AND SUPPLEMENTARY SERVICES</b>			A.S0001 Section 2 A.S0001.1 Section 2 A.S0001-A Section 2
- CALL CONTROL			A.S0001 Section 2.1 A.S0001.1 Section 2.1 A.S0001-A Section 2.1
- A1 INTERFACE CALL SETUP			A.S0001 Section 2.2 A.S0001.1 Section 2.2 A.S0001-A Section 2.2
- CALL CLEARING PROCEDURE			A.S0001 Section 2.3 A.S0001.1 Section 2.3 A.S0001-A Section 2.3
- TRAFFIC CHANNEL RADIO LINK SUPERVISION			A.S0001 Section 2.4 A.S0001.1 Section 2.4 A.S0001-A Section 2.4
- SUPPORT OF SUPPLEMENTARY SERVICES			A.S0001 Section 2.5 A.S0001.1 Section 2.5 A.S0001-A Section 2.5
- DATA CALLS			A.S0001 Section 2.6

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<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
- SUPPORT OF SHORT MESSAGE SERVICE			A.S0001 Section 2.7 A.S0001.1 Section 2.6 A.S0001-A Section 2.6
- SUPPORT OF OVER-THE-AIR SERVICE-PROVISIONING (OTASP)			A.S0001 Section 2.8 A.S0001.1 Section 2.7 A.S0001-A Section 2.7
- ERROR HANDLING			A.S0001 Section 2.9 A.S0001-A Section 2.8
- MOBILE ORIGINATED CALLS WITH PACA SERVICE			A.S0001.1 Section 2.10 A.S0001-A Section 2.10
- MOBILE POSITION DETERMINATION			A.S0001.1 Section 2.11 A.S0001-A Section 2.11
- USER ZONES			A.S0001.1 Section 2.12 A.S0001-A Section 2.12
- CIRCUIT DATA CALLS			A.S0001.1 Section 2.13 A.S0001-A Section 2.13
- PACKET DATA CALLS			A.S0001.1 Section 2.14 A.S0001-A Section 2.14
- A10/A11 INTERFACE PROCEDURES			A.S0001.1 Section 2.15 A.S0001-A Section 2.15
- SUPPORT OF ISDN INTERWORKING SERVICE			A.S0001-A Section 2.16
- SUPPORT OF CONCURRENT SERVICE			A.S0001-A Section 2.17
<b>RADIO RESOURCE MANAGEMENT</b>			A.S0001 Section 3 A.S0001.1 Section 3 A.S0001-A Section 3

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CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
- RADIO CHANNEL SUPERVISION			A.S0001 Section 3.1 A.S0001.1 Section 3.1 A.S0001-A Section 3.1
- RADIO CHANNEL MANAGEMENT			A.S0001 Section 3.2 A.S0001.1 Section 3.2 A.S0001-A Section 3.2
- HANDOFF VIA MSC			A.S0001 Section 3.3 A.S0001.1 Section 3.3 A.S0001-A Section 3.3
- HANDOFF VIA DIRECT BS-TO-BS SIGNALING			A.S0001 Section 3.4 A.S0001.1 Section 3.4 A.S0001-A Section 3.4
- HANDOFF CALL FLOWS			A.S0001 Section 3.5 A.S0001.1 Section 3.5 A.S0001-A Section 3.5
<b>MOBILITY MANAGEMENT, AUTHENTICATION, AND PRIVACY</b>			A.S0001 Section 4 A.S0001.1 Section 4 A.S0001-A Section 4
- MOBILITY MANAGEMENT			A.S0001 Section 4.1 A.S0001.1 Section 4.1 A.S0001-A Section 4.1
- AUTHENTICATION AND PRIVACY			A.S0001 Section 4.2 A.S0001.1 Section 4.2 A.S0001-A Section 4.2
- PACKET DATA SECURITY CONSIDERATIONS			A.S0001.1 Section 4.3 A.S0001-A Section 4.3

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<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
LAYERS 1 & 2 AND TERRESTRIAL FACILITY MANAGEMENT			A.S0001 Section 5 A.S0001.1 Section 5 A.S0001-A Section 5
- PHYSICAL LAYER SPECIFICATION (LAYER 1)			A.S0001 Section 5.1 A.S0001.1 Section 5.1 A.S0001-A Section 5.1
- ANSI SS7 TRANSPORT SPECIFICATION (LAYER 2)			A.S0001 Section 5.2 A.S0001.1 Section 5.2 A.S0001-A Section 5.2
- USE OF ATM (LAYER 2)			A.S0001 Section 5.3 A.S0001.1 Section 5.3 A.S0001-A Section 5.3
- TRANSPORT PROTOCOLS			A.S0001 Section 5.4
- NETWORK AND TRANSPORT PROTOCOLS			A.S0001.1 Section 5.4 A.S0001-A Section 5.4
- TERRESTRIAL CIRCUIT MANAGEMENT PROCEDURES			A.S0001 Section 5.5 A.S0001.1 Section 5.5 A.S0001-A Section 5.5
<b>MESSAGES, INFORMATION ELEMENTS, AND TIMER DEFINITIONS</b>			A.S0001 Section 6 A.S0001.1 Section 6 A.S0001-A Section 6
<b>SUPPLEMENTARY SERVICES ANNEX</b>			A.S0001 Annex A A.S0001.1 Annex A A.S0001-A Annex A
<b>OPTIONAL FEATURES ANNEX</b>			A.S0001.1 Annex B A.S0001-A Annex B

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CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>CALL DIAGRAMS --&gt; SUPPORT OF EVRC</b>			A.S0001.1 Annex C A.S0001-A Annex C
<b>INTER-GENERATION PACKET DATA HANDOFF ANNEX</b>			A.S0001-A Annex D
<b>ABIS INTERFACE</b>			A.S0003
- FUNCTIONAL ARCHITECTURE AND INTERFACES			A.S0003 Section 4
- CALL PROCESSING			A.S0003 Section 5
- AB INTERFACE MESSAGE FORMATS			A.S0003 Section 6
- INFORMATION ELEMENT DEFINITIONS			A.S0003 Section 7
<b>TANDEM FREE OPERATION</b>			A.S0004 A.S0004-0.1
- GENERAL APPROACH			A.S0004 Section 4 A.S0004-0.1 Section 4
- TFO FRAME STRUCTURE			A.S0004 Section 5 A.S0004-0.1 Section 5
- TFO MESSAGE STRUCTURE			A.S0004 Section 6 A.S0004-0.1 Section 6
- TIME ALIGNMENT OF TFO FRAMES AND TFO MESSAGES			A.S0004 Section 7 A.S0004-0.1 Section 7
- PROCESSES FOR TFO OPERATION			A.S0004 Section 8 A.S0004-0.1 Section 8
- STATE MACHINE FOR TFO_PROTOCOL PROCESS FOR CDMA			A.S0004 Section 9 A.S0004-0.1 Section 9
- DETAILED DESCRIPTION FOR TFO_PROTOCOL FOR CDMA			A.S0004 Section 10 A.S0004-0.1 Section 10

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<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
- TFO CAPABILITY DESCRIPTION AND REQUIREMENTS			A.S0004 Annex A A.S0004-0.1 Annex A
- INBAND SIGNALING PROTOCOL: GENERIC STRUCTURE			A.S0004 Annex B A.S0004-0.1 Annex B
IN-PATH EQUIPMENT: GENERIC RULES AND GUIDELINES			A.S0004 Annex C A.S0004-0.1 Annex C

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1 **3GPP2 NETWORK FEATURES AND CAPABILITIES**

2 This section details the capabilities and features of the 3GPP2 intersystem interface.

<b>□FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
<b>CELLULAR RADIOTELECOMMUNICATIONS INTERSYSTEM OPERATIONS</b>			N.S0005
<b>CELLULAR FEATURES DESCRIPTIONS</b>			S.R0006
- REMOVABLE USER IDENTITY MODULE	STAGE 1 STAGE 2/3	R-UIM	S.R0009 N.S0003 C.S0023 v2.0 C.S0023-1
- PREFERRED LANGUAGE ENHANCEMENT	STAGE 1 STAGE 2/3		S.R0010 N.S0004
- ADVICE OF CHARGE	STAGE 1	AOC	S.R0011 N.S0004
- REJECTION OF UNDESIRED ANNOYING CALLS	STAGE 1 STAGE 2/3	RUAC	S.R0012 N.S0004
- FREEPHONE			N.S0004
- PREMIUM RATE CHARGING			N.S0004
- PCS MULTI-BAND BASED ON IS-41-C			N.S0006
- DCCH BASED ON IS-41-C			N.S0007
- INTERNATIONAL MOBILE SUBSCRIPTION IDENTIFIER		IMSI	N.S0009
- ADVANCED FEATURES IN WIDEBAND SPREAD SPECTRUM SYSTEMS			N.S0010
- CALLING NAME PRESENTATION / CALLING NAME RESTRICTION		CNAP/CNAR	N.S0012
- WIN PHASE 1			N.S0013
- AUTHENTICATION ENHANCEMENTS			N.S0014
- ANSI-41-D MISCELLANEOUS ENHANCEMENTS			N.S0015
- N.S0005 ENHANCEMENTS FOR INTERNATIONALIZATION			N.S0016

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<b>□ FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
- INTERNATIONAL IMPLEMENTATION OF WIRELESS TELECOMMUNICATIONS SYSTEMS COMPLIANT WITH TIA/EIA-41			N.S0017 N.S0017-A
- PREPAID CHARGING			N.S0018
- INTERSYSTEM LINK PROTOCOL			N.S0019
- SEGMENTATION AND REASSEMBLY			N.S0020
- USER SELECTIVE CALL FORWARDING	STAGE 1 STAGE 2/3	USCF	S.R0007 N.S0021
- ANSWER HOLD	STAGE 1 STAGE 2/3	AH	S.R0008 N.S0022
- AUTOMATIC CODE GAPPING	STAGE 1 STAGE 2/3	ACG	S.R0016 N.S0023
- NETWORK SUPPORT FOR MDN-BASED SYSTEMS			N.S0024
- ROAMER DATABASE VERIFICATION			N.S0025
- WIRELESS RADIO TELECOMMUNICATION INTERSYSTEM NON-SIGNALING DATA COMMUNICATION DMH			N.S0026
- GLOBAL EMERGENCY CALL ORIGINATION	STAGE 1	GECO	S.R0013
- VIDEO STREAMING			C.S0027
<b>3G WIRELESS NETWORK MANAGEMENT</b>	STAGE 1 STAGE 2/3		S.R0017 S.S0028
<b>AUTHENTICATION</b>			N.S0014
<b>ISDN INTERWORKING</b>	STAGE 1		S.R0015 C.S0017-0-2
<b>LOCATION SERVICES</b>			C.S0022 C.S0022-1
<b>MARKOV SERVICE OPTION</b>			C.S0025
<b>MOBILE STATION LOOPBACK TEST</b>			C.S0013 C.S0013-A

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<b>□ FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
<b>OVER-THE-AIR SERVICE PROVISIONING</b>		OTASP	C.S0016
<b>OVER-THE-AIR PARAMETER ADMINISTRATION</b>		OTAPA	C.S0016-A N.S0011
<b>SHORT MESSAGE SERVICE</b>		SMS	C.S0015 N.S0005
<b>TANDEM FREE OPERATION</b>	STAGE 1	TFO	S.R0014
<b>TEST DATA SERVICE OPTION</b>			C.S0026
<b>SERVICE OPTIONS:</b>			
- SPEECH SERVICE OPTION			C.S0009
<b>SERVICES IMPLEMENTED USING EXISTING PROTOCOLS</b>			
- INTERNATIONAL ACCESS/+ CODE DIALING			S.R0004 Section 1 N.0031
- CREDIT CARD CALLING SERVICE			S.R0004 Section 2 N.S0005
- CLOSED USER GROUP		CUG	S.R0004 Section 3 N.S0005
- ENHANCED ROUTING			S.R0004 Section 4 N.S0005
- INTERNATIONAL ROAMING			S.R0004 Section 5 N.S0016
- SPECIAL SERVICE DIALING		SPD	S.R0004 Section 6 N.S0005

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**3GPP2 DATA SERVICES**

1 This section details the data services, circuit and packet, support by the 3GPP2 system.

2 • **CIRCUIT-SWITCHED DATA**

<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
<b>CIRCUIT MODE SERVICES</b>			N.S0008
<b>CDMA DATA SERVICES</b>			C.S0017 Section 3
- SERVICE OPTIONS FOR DATA SERVICES			C.S0017 Section 3.1
- ASYNC AND FAX SERVICES			C.S0017 Section 3.2
- PACKET DATA BEARER SERVICE			C.S0017 Section 3.3
- STU-III SERVICE			C.S0017 Section 3.4
- ANALOG FAX SERVICE			C.S0017 Section 3.5
- HIGH SPEED PACKET BEARER SERVICE			C.S0017 Section 3.6
<b>INTERSYSTEM SUPPORT</b>			C.S0017 Section 4
- PROTOCOL ARCHITECTURE			C.S0017 Section 4.1
- INTERSYSTEM INTERFACE			C.S0017 Section 4.2
<b>DATA SERVICE OPTIONS FOR SPREAD SPECTRUM SYSTEMS: RADIO LINK PROTOCOL (RLP)</b>			C.S0017 -1-10
<b>DATA SERVICE OPTIONS FOR SPREAD SPECTRUM SYSTEMS: cdma2000 HIGH SPEED DATA SERVICES</b>			C.S0017 -1-11

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1 • **PACKET-SWITCHED DATA**

CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>PROTOCOL REFERENCE MODEL</b>			P.S0001 Section 4 P.S0001-A Section 4
<b>SIMPLE IP OPERATION</b>			P.S0001 Section 5 P.S0001-A Section 5
<b>MOBILE IP OPERATION</b>			P.S0001 Section 6 P.S0001-A Section 6
<b>MOBILITY MANAGEMENT</b>			P.S0001 Section 7 P.S0001-A Section 7
<b>QUALITY OF SERVICE (QOS)</b>			P.S0001 Section 8 P.S0001-A Section 8
<b>ACCOUNTING</b>			P.S0001 Section 9 P.S0001-A Section 9
<b>R-P INTERFACE</b>			P.S0001 Section 10 P.S0001-A Section 10
<b>RADIO NETWORK REQUIREMENTS</b>			P.S0001 Section 11 P.S0001-A Section 11
<b>AIR INTERFACE</b>			P.S0001 Section 12 P.S0001-A Section 12

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1 **ANALOG OPERATIONS**

2 This section details the capabilities and features of the 3GPP2 analog operations.

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CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
<b>REQUIREMENTS FOR MOBILE STATION ANALOG OPERATION</b>			C.S0006 Section 2 C.S0006-A Section 2 v2.0 C.S0006-B Section 2
- TRANSMITTER			C.S0006 Section 2.1 C.S0006-A Section 2.1 v2.0 C.S0006-B Section 2.1
- RECEIVER			C.S0006 Section 2.2 C.S0006-A Section 2.2 v2.0 C.S0006-B Section 2.2
- SECURITY AND IDENTIFICATION			C.S0006 Section 2.3 C.S0006-A Section 2.3 v2.0 C.S0006-B Section 2.3
- SUPERVISION			C.S0006 Section 2.4 C.S0006-A Section 2.4 v2.0 C.S0006-B Section 2.4
- MALFUNCTION DETECTION			C.S0006 Section 2.5 C.S0006-A Section 2.5 v2.0 C.S0006-B Section 2.5
- CALL PROCESSING			C.S0006 Section 2.6 C.S0006-A Section 2.6 v2.0 C.S0006-B Section 2.6

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<b>CAPABILITY/FEATURE</b>	<b>CATEGORY</b>	<b>ACRONYM</b>	<b>REFERENCE</b>
- SIGNALING FORMATS			C.S0006 Section 2.7 C.S0006-A Section 2.7 v2.0 C.S0006-B Section 2.7
<b>REQUIREMENTS FOR BASE STATION ANALOG OPERATION</b>			C.S0006 Section 3 C.S0006-A Section 3 v2.0 C.S0006-B Section 3
- TRANSMITTER			C.S0006 Section 3.1 C.S0006-A Section 3.1 v2.0 C.S0006-B Section 3.1
- RECEIVER			C.S0006 Section 3.2 C.S0006-A Section 3.2 v2.0 C.S0006-B Section 3.2
- SECURITY AND IDENTIFICATION			C.S0006 Section 3.3 C.S0006-A Section 3.3 v2.0 C.S0006-B Section 3.3
- SUPERVISION			C.S0006 Section 3.4 C.S0006-A Section 3.4 v2.0 C.S0006-B Section 3.4
- MALFUNCTION DETECTION			C.S0006 Section 3.5 C.S0006-A Section 3.5 v2.0 C.S0006-B Section 3.5
- CALL PROCESSING			C.S0006 Section 3.6 C.S0006-A Section 3.6 v2.0 C.S0006-B Section 3.6

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CAPABILITY/FEATURE	CATEGORY	ACRONYM	REFERENCE
- SIGNALING FORMATS			C.S0006 Section 3.7 C.S0006-A Section 3.7 v2.0 C.S0006-B Section 3.7
<b>REQUIREMENTS FOR MOBILE STATION OPTIONS</b>			C.S0006 Section 4 C.S0006-A Section 4 v2.0 C.S0006-B Section 4
<b>REQUIREMENTS FOR BASE STATION OPTIONS</b>			C.S0006 Section 5 C.S0006-A Section 5 v2.0 C.S0006-B Section 5

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1 APPENDIX

2 • 3GPP2 DOCUMENT REFERENCE LISTING

3GPP2 DOC #	TITLE	CWTS REF #	TIA REF #	TTA REF #	TTC REF #
<b>TSG-A RADIO ACCESS INTERFACE</b>					
A.R0003	Abis Technical Report				
A.S0001	3G-IOS		Rev.0 = IOS V4.		
A.S0003	Abis interface specification				
A.S0004	Tandem Free Operation				
<b>TSG-C cdma2000 AIR INTERFACE</b>					
C.S0001	cdma2000 - Introduction		IS-2000-1		
C.S0002	cdma2000 - Physical Layer		IS-2000-2		
C.S0003	cdma2000 - MAC		IS-2000-3		
C.S0004	cdma2000 - Layer 2 LAC		IS-2000-4		
C.S0005	cdma2000 - Layer 3		IS-2000-5		
C.S0006	cdma2000 - Analog		IS-2000-6		
C.S0007	G3G CDMA-DS on ANSI-41				
C.S0008	G3G CDMA-MC on GSM-MAP				
C.S0009	Speech Service Option		TIA/EIA-96-C		
C.S0010	Base Station Minimum Performance		TIA/EIA-97-D		
C.S0011	Mobile Station Minimum Performance		TIA/EIA-98-D		
C.S0012	Minimum Performance Standard for Speech SO 1		TIA/EIA-125-A		
C.S0013	Mobile Station Loopback Test		TIA/EIA-126-C		
C.S0014	Enhanced Variable Rate Codec (EVRC)		IS-127		
C.S0014-0-1	EVRC addendum for removal of bit exact		IS-127-1		
C.S0014-0-2	EVRC TTY/TDD addendum		IS-127-2		
C.S0015	Short Message Service		TIA/EIA-637-A		

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<b>3GPP2 DOC #</b>	<b>TITLE</b>	<b>CWTS REF #</b>	<b>TIA REF #</b>	<b>TTA REF #</b>	<b>TTC REF #</b>
C.S0016	OTASP of MS in Spread Spectrum Systems		IS-683-A		
C.S0017	(14.4 kbps) Data SOs for Spread Spectrum Systems - STU III Transparent + Non-Trans - Async Data + G3 Fax - Packet (Internet + CDPD) - Analog Fax (Rate Set 1+2)		IS-707-A		
C.S0017-0-1	Addendum for cdma2000 RLP and additional packet data support		IS-707-A-1		
C.P0017-0-2	Data SOs for Spread Spectrum Systems		IS-707-A-2		
C.S0018	Minimum Performance Specification for EVRC		IS-718		
C.S0020	High Rate (13 kbps) Speech SO		IS-733		
C.S0020-0-1	High Rate Speech SO TTY/TDD addendum		IS-733-1		
C.S0021	Minimum Performance for HR (13 kbps)		IS-736-A		
C.S0022	Location Services (Position Determination Service)		IS-801		
C.S0023	Removable User Identity Module		IS-820		
C.S0024	Markov Service Option (MSO)				
C.S0025	Test Data Service Option (TDSO)				
C.R1000	Requirements Mapping for cdma2000		TSB2000		
C.R1001	Parameter Value Assignments		TSB58-B		
C.P9001	SMV (Selectable Mode Vocoder)		PN-4575		
<b>TSG-N INTERSYSTEM INTERFACE</b>					
N.S0003	User Identity Module		IS-808	TTAE.3G-N.S0003	JP-3GB-N.S0003

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<b>3GPP2 DOC #</b>	<b>TITLE</b>	<b>CWTS REF #</b>	<b>TIA REF #</b>	<b>TTA REF #</b>	<b>TTC REF #</b>
N.S0004	WIN Phase 2 - Triggers for Preferred Language - Advice of Charge - Rejection of Undesired Annoying Calls - Premium Rate Charging - Freephone		IS-848	TTAE.3G-N.S0004	JP-3GB-N.S0004
N.S0005	Cellular Radiotelecommunications Intersystem Operations	YD/T-1031-1999	TIA/EIA-41-D	TTAE.3G-N.S0005	JJ-70.11
N.S0006	PCS Multi-band-Based on IS-41-C		TSB-76		JP-3GB-N.S0006
N.S0007	DCCH Based on IS-41-C		IS-730	TTAE.3G-N.S0007	
N.S0008	Circuit Modes Services-Data-Based on IS-41-C		IS-737		JP-3GB-N.S0008
N.S0009	IMSI		IS-751	TTAE.3G-N.S0009	JP-3GB-N.S0009
N.S0010	Advanced Features in Wideband Spread Spectrum Systems		IS-735		JP-3GB-N.S0010
N.S0011	OTASP and OTAPA		IS-725-A	TTAE.3G-N.S0011	JP-3GB-N.S0011
N.S0012	CNAP/CNAR		IS-764	TTAE.3G-N.S0012	JP-3GB-N.S0012
N.S0013	WIN		IS-771	TTAE.3G-N.S0013	JP-3GB-N.S0013
N.S0014	Authentication Enhancements		IS-778	TTAE.3G-N.S0014	JP-3GB-N.S0014
N.S0015	ANSI-41-D Miscellaneous Enhancements				TD-3GB-N.S0015
N.S0016	TIA/EIA-41-D Enhancements for Internationalization		IS-807	TTAE.3G-N.S0016	JP-3GB-N.S0016
N.S0017	International Implementation of Wireless Telecommunication Systems Compliant with TIA/EIA-41		TSB29-C	TTAE.3G-N.S0017	TD-3GB-N.S0017

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<b>3GPP2 DOC #</b>	<b>TITLE</b>	<b>CWTS REF #</b>	<b>TIA REF #</b>	<b>TTA REF #</b>	<b>TTC REF #</b>
N.S0018	TIA/EIA-41-D Prepaid Charging		IS-826	TTAE.3G-N.S0018	JP-3GB-N.S0018
N.S0019	Intersystem Link Protocol		IS-728	TTAE.3G-N.S0019	JP-3GB-N.S0019
N.S0020	Segmentation and Reassembly		IS-812	TTAE.3G-N.S0020	
N.S0021	User Selective Call Forwarding (USCF)		IS-838		JP-3GB-N.S0021
N.S0022	Answer Hold (AH)		IS-837		JP-3GB-N.S0022
N.S0023	Automatic Code Gapping (ACG)		IS-706		JP-3GB-N.S0023
N.S0024	Network support for MDN-based Message Centers		IS-841		
N.S0025	Roamer Database Verification		IS-847		
N.S0026	Wireless Radio Telecommunication Intersystem Non-Signaling Data Communication DMH		TIA/EIA-124-C		
<b>TSG-P PACKET DATA SERVICES</b>					
P.S0001	Wireless IP Network Architecture based on IETF Protocols				
P.S0002	Wireless IP Network Standard		TIA/EIA-835		
<b>TSG-S SERVICES AND SYSTEMS ASPECTS</b>					
S.R0001	3GPP2 Specifications List				
S.R0002	3G Capability Descriptions				
S.R0003	System Capability Guide				
S.R0004	System Implementation Guide				
S.R0005	3GPP2 Network Reference Model		TSB100		
S.R0006	Cellular Features Description		IS-664-A		
S.R0007	User Selective Call Forwarding (Stage1)		IS-838PN-4551		
S.R0008	Answer Hold (Stage1)		IS-837PN-4550		



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<b>3GPP2 DOC #</b>	<b>TITLE</b>	<b>CWTS REF #</b>	<b>TIA REF #</b>	<b>TTA REF #</b>	<b>TTC REF #</b>
S.R0009	User Identity Module (Stage1)		IS-808PN-4582		
S.R0010	Preferred Language Enhancement (Stage1)		IS-848		
S.R0011	Advice of Charge (Stage1)		IS-848 PN-4289		
S.R0012	Rejection of Undesired Annoying Calls (Stage1)		IS-848 PN-4289		
S.R0013	Global Emergency Call Origination (Stage1)				
S.R0014	Tandem Free Operation (Stage1)				
S.R0015	ISDN Interworking (Stage1)				
S.R0016	Automatic Code Gapping (Stage1)		IS-786PN-4410		
S.R0017	3G Wireless Network Management System High Level Requirements (Stage 1)		[IS-4108]		
S.R0018	Prepaid Charging (Stage 1)		IS-826PN-4287		
S.R0019	Location Services System Support (Stage 1)		PN-4747		
S.R0021	Video Streaming Service (Stage 1)				
S.R0022	Video Conferencing Service (Stage 1)				
S.R0023	High-speed Data Enhancements for cdma2000 1x - Data Only (1xEV-DO) (Stage 1)				
S.R0024	Wireless Local Loop (WLL) (Stage 1)				
S.R0025	Wireless Pay Phone (WPP) (Stage 1)				
S.R0026	High-speed Data Enhancements for cdma2000 1x - Integrated Data and Voice (1xEV-DV) (Stage 1)				

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<b>3GPP2 DOC #</b>	<b>TITLE</b>	<b>CWTS REF #</b>	<b>TIA REF #</b>	<b>TTA REF #</b>	<b>TTC REF #</b>
S.R0027	Personal Mobility (Stage 1)				
S.R0029	Access Control Based on Call Type (Stage 1)				
S.R0032	Enhanced Subscriber Authentication (ESA) and Enhanced Subscriber Privacy (ESP) (Stage 1)		PN-4393		
S.S0028	OAM&P for cdma2000 (3GPP Delta Specification)				

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2 • **AIR INTERFACE PARAMETER ADMINISTRATION**

<b>CAPABILITY/FEATURE</b>	<b>REFERENCE</b>
3GPP2 PARAMETER ADMINISTRATION PROCESS	C.R1001 Section 2
SERVICE OPTION NUMBER ASSIGNMENTS	C.R1001 Section 3
DATA BURST MESSAGE TYPE ASSIGNMENTS	C.R1001 Section 4
MULTIPLEX OPTION NUMBER ASSIGNMENTS	C.R1001 Section 5
MANUFACTURER-SPECIFIC OTASP ASSIGNMENTS	C.R1001 Section 7
ROAMING DISPLAY INDICATOR ASSIGNMENTS	C.R1001 Section 8
SHORT MESSAGE SERVICES ASSIGNMENTS	C.R1001 Section 9

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1 **ACRONYMS**

$\mu$ s    Microsecond ( $10^{-6}$  second).  
 3G        Third Generation.  
 3G-IOS    Third Generation InterOperability Specification  
 3GPP     Third Generation Partnertship Project (ETSI driven)  
 3GPP2    Third Generation Partnership Project (ANSI driven)  
 AAL      ATM Adaptation Layer.  
 ABR      Average Bit Rate.  
 AC        Authentication Center  
 ACCOLC    ACCess Over Load Class.  
 ACELP    Adaptive Code Excited Linear Prediction.  
 ACF      Authentication Control Function  
 ACH      Access Channel  
 ACP      Adjacent Channel Power  
 ACRE     Authentication & Call Routing Equipment  
 AD        Abbreviated Dialing  
 ADDS     Application Data Delivery Service  
 ADPCM    Adaptive Differential Pulse Code Modulation  
 ADS      Asynchronous Data Service  
 AH        Authentication Header  
 AH        Answer Hold  
 AHAG     Ad Hoc Authentication Group (TR45)  
 AHG      AdHoc Group  
 AI        Air Interface.  
 AIN      Advanced Intelligent Network  
 A-key    Authentication key.  
 AM        Amplitude Modulation.  
 AMA      Automatic Message Accounting  
 AMPS     Advanced Mobile Phone System.  
 ANLYZD   Analyzed Information INVOKE  
 ANSI     American National Standards Institute  
 ANZT     Analyzed Information Timer  
 AOC      Advice of Charge  
 AON      All Or None parameter  
 ARIB     Association of Radio Industries and Businesses (Japan)  
 ARQ      Automatic Repeat Request  
 ASR      Automatic Speech Recognition  
 ATIS     Alliance for Telecommunications Industry Solutions  
 ATM      Asynchronous Transfer Mode  
 AUTHR    Authentication Response  
 AWGN     Additive White Gaussian Noise  
 AWI      Alert With Information.  
 BCCH     Broadcast Control Channel  
 BCD      Binary Coded Decimal  
 BCH Code   Bose-Chaudhuri-Hocquenghem Code  
 BCM      Basic Call Manager  
 BCSM     Basic Call State Model  
 BDISCT   Bulk Disconnection Timer  
 BER      Bit Error Rate.  
 BFI      Bad Frame Indicator  
 BFT      Binary File Transfer.  
 BLOB     Block of Bits  
 bps      Bits per second.  
 BPSK     Biphase shift keying.

BRAID    The Motorola data encryption algorithm's name refers to braiding, as in hair.  
 BS        Base Station  
 BSC      Base Station Controller  
 BSMC     Base Station Manufacturer Code  
 BSMCS    BSMC Status Parameter  
 BTA      Basic Trading Area  
 BTS      Base Transceiver System  
 BTTS     Broadcast Transport Teleservice Capability  
 BULKDISCONN    Bulk Disconnection INVOKE  
 bulkdisconn    Bulk Disconnection RETURN RESULT  
 C/I        Carrier/Interference ratio  
 CAC      Carrier Access Code  
 CACH     Channel Assignment Channel  
 CALEA    Communication Assistance to Law Enforcement Act.  
 CAPCS    Cellular Auxiliary Personal Communications Service  
 CAVE     Cellular Authentication & Voice Encryption  
 CBR      Constant Bit Rate  
 CCA      Common Cryptographic Algorithm  
 CCCH     Common Control Channel  
 CCDIR    Call Control Directive INVOKE  
 ccdir     Call Control Directive RETURN RESULT  
 CCDT     Call Control Directive Timer  
 CCF      Call Control Function  
 CCITT    The International Telegraph and Telephone Consultative Committee. Now called the ITU.  
 CCM      Control Channel Mode Parameter  
 CDCP    Call Data Collection Point  
 CDG      CDMA Development Group  
 CDGP     Call Data Generation Point  
 CDIS     Call Data Information Source.  
 CDMA     Code Division Multiple Access  
 CDMABC   CDMA Band Class parameter  
 CDMABCI   CDMA Band Class Information parameter  
 CDMABCL   CDMA Band Class List parameter  
 CDMACR   CDMA Connection Reference parameter  
 CDMACRINFO    CDMA Connection Reference Information parameter  
 CDMACRLIST    CDMA Connection Reference List parameter  
 CDMAS    CDMA State parameter  
 CDMASCM2   CDMA Station Class Mark 2 parameter  
 CDMASCR   CDMA Service Configuration Record parameter  
 CDMASERCONF    CDMA Service Configuration Record parameter  
 CDMASEROPT    CDMA Service Option parameter  
 CDMASEROPTLIST    CDMA Service Option List parameter  
 CDMASO    CDMA Service Option parameter  
 CDMASOL   CDMA Service Option List parameter  
 CDPD     Cellular Digital Packet Data  
 CDR      Call Detail Record  
 CDRP     Call Data Rating Point  
 CELP     Code Excited Linear Prediction.  
 CFRT     Connection Failure Report Timer  
 CHANGE   Change parameter  
 CHAP     Challenge Handshake Authentication Protocol  
 CHGSRVAT   Change Service Attribute parameter  
 CIC      Carrier ID Code

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CITEL	Commission InterAmericanna de Telecommunica- tions Association	DTC	Digital Traffic Channel
CLASS	Custom Local Area Signaling Services.	dtch	Dedicated Traffic Channel
CMEA	Cellular Message Encryption Algorithm	DTE	Data Terminal Equipment
CMODES	Confidentiality Modes parameter	DTMF	Dual Tone Multi-Frequency
CMRS	Commercial Mobile Radio Service.	DTV	Digital Television
CNAP	Calling NAME Presentation	DTX	Discontinuous Transmission
CNAR	Calling Name Restriction	E911	Enhanced 911
CNID	Control Network ID parameter	EA	Entropy Accumulator
CNIP	Calling Number Identification Presentation	$E_b$	The energy of an information bit.
CPCCH	Common Power Control Channel	$E_b/N_t$	The ratio in dB of the combined received energy per bit to the effective noise power spectral density.
CPE	Customer Premise Equipment	$E_c/I_0$	The ratio in dB between the pilot energy accumulated over one PN chip period ( $E_c$ ) to the total power spec- tral density ( $I_0$ ) in the received bandwidth.
CRC	Cyclic Redundancy Code	ECI	Error Concealment Indicator
CRID	Call Recovery ID parameter	ECR	Enhanced Call Routing
CRIDLIST	Call Recovery ID List parameter	ECSP	Electronic Communications Service Providers
CRL	Certificate Revocation List	EDACP	Enhanced Digital Access Communications System
CRM	Circuit Reservation Message	EDP	Event Detection Point
CRRT	Call Recovery Report Timer	EDP-N	Event Detection Point - Notification
CS	Cryptosync	EDP-R	Event Detection Point - Request
CS-2	Capability Set 2	EIA	Electronics Industry Association
CSC	Customer Service Center	EIB	Erasure Indicator Bit
csch	Common Signaling Channel	EIR	Equipment Identity Register
CS-n	Capability Set n	EIRP	Effective Isotropic Radiated Power
CT	Cypher Text	ER	Enhanced Roaming
CTIA	Cellular Telecommunication Industry Association	ERAM	Enhanced Rate Adaptation Mode
CTIA	Cellular Telecommunications Industry Association	ERI	Enhanced Roaming Indicator
CTO	Chief Technical Officers	ERMES	European Radio Messaging System
CTS	CDMA Tiered Services	ERP	Effective Radiated Power
CWTS	China Wireless Telecommunication Standard Group	ESA	Enhanced Security Algorithm
DAE	Data Access Element parameter	ESC	Extended Spectrum Capacity
DAEL	Data Access Element List parameter	ESI	Electronic Surveillance Interface
D-AMPS	Digital Advanced Mobile Phone System.	ESMR	Enhanced Specialized Mobile Radio
dBc	The ratio (in dB) of the sideband power of a signal, measured in a given bandwidth at a given frequency offset from the center frequency of the same signal, to the total inband power of the signal. .	ESN	Electronic Serial Number
dBm	Decibels referenced to one milliwatt	ESP	Encapsulating Security Payload
dBm/Hz	Decibels per Hertz - a measure of power spectral den- sity	ESP	Enhanced Subscriber Privacy
dBW	A measure of power expressed in terms of its ratio (in dB) to one Watt.	ETACS	Extended Total Access Communications Systems
DCC	Digital Control Channel.	ETSI	European Technical Standards Institute.
DCCH	Dedicated Control Channel	EVM	Error Vector Magnitude
DCDC	Desired Characteristics & Decision Criteria	EVRC	Enhanced Variable Rate Codec
DCE	Data Circuit-terminating Equipment	EXESCR	Execute Script parameter
DCS	Digital Cellular System (1800)	FA	Foreign Agent
DDR	Document Discrepancy Report	FAC	Foreign Agent Challenge
DECT	Digital European Cordless Telephone	FACCH	Fast Access Control Channel
DFP	Distributed Functional Plane	F-ACH	Forward Access Channel
DISCO	Domestic-International Satellite service Consolida- tion.	FAILCAUSE	Failure Cause parameter
DKEY	DataKey parameter	FAILTYPE	Failure Type parameter
DMH	Data Message Handler	FAM	Fleet and Asset Management
DN	Directory Number.	FAMOUS	Future Advanced MOBILE Universal Service
DOI	Domain of Interpretation	F-BCCCH	Forward Broadcast Control Channel
DP	Detection Point	FBI	Federal Bureau of Investigation
DPP	Data Privacy Parameters	F-CACH	Forward Common Assignment Channel
DQPSK	Differential Quadrature Phase Shift Keying	FCC	Federal Communications Commission
DRAM	Dynamic Random Access Memory	F-CCCH	Forward Common Control Channel
DS	Direct Spread	FCH	Fundamental Channel
dsch	Dedicated Signaling Channel	F-CPCCH	Forward Common Power Control Channel
		F-CPCSCH	Forward Common Power Control Sub-channel
		f-csch	Forward Common Signaling Channel

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F-DCCH	Forward Digital Control Channel.	IN	Intelligent Network
FDD	Frequency Division Duplex	INAP	Intelligent Network Application Protocol
FDMA	Frequency Division Multiple Access.	IP	Internet Protocol
f-dsch	Forward Dedicated Signaling Channel	IP	Intelligent Peripheral
f-dtch	Forward Dedicated Traffic Channel	IPCP	IP Control Protocol
FE	Functional Entity	IPE	In Path Equipment
FEATIND	Feature Indicator parameter	IPR	Intellectual Property Rights
FER	Frame Error Rate	IRM	International roaming MIN
FHMA	Frequency Hopping Multiple Access	IRT	Instruction Request Timer
FIM	Feature Interactions Manager	IS	Interim Standard
FM	Feature Manager	ISAKMP	Internet Security Association and Key Management protocol
FM	Frequency Modulation	ISD	International Standards Development
FNPRM	Future Notice of Proposed Rule Making	ISDN	Integrated Services Digital Network
FOCC	Forward Analog Control Channel	ISLP	InterSystem Link Protocol
F-PCH	Forward Paging Channel	ISLPINFO	ISLP Information
FPH	FreePhone	ISMA	Interference Sense Multiple Access
FPLMTS	Future Public Land Mobile Telecommunications Systems – now IMT-2000	ISO	International Standards Organization
FSK	F Shift Keying	ISP	Internet Service Provider
FSLP	Feature Service Logic Program	ITAR	International Traffic in Arms Regulations
FTAG	Fraud Technical Advisory Group	ITU	International Telecommunications Union
FTP	File Transfer Protocol	ITU-R	International Telecommunications Union - Radio
FVC	Forward Analog Vice Channel	ITU-T	International Telecommunications Union - Telephone
FWA	Fixed Wireless Access	IWF	Interworking Function
FWI	Flash With Information	JPC	Joint Projects Committee
GAOM	Global Action Overhead Message	JTACS	Japan Total Access Communications Systems
GECO	Global ECO (Emergency Call Origination)	JTC	Joint Technical Committee
GEO	Geostationary Orbit	kbps	Kilobits (10 <sup>3</sup> ) bits per second
GHz	GigaHertz (10 <sup>9</sup> Hertz)	kHz	KiloHertz (10 <sup>3</sup> Hertz)
GMSK	Gaussian Minimum Shift Keying (GSM)	KSG	Key Stream Generator
GPS	Global Positioning System	ksps	kilo-symbols per second (10 <sup>3</sup> symbols per second)
GSM	Formerly: Group Special Mobile. Now: Global System for Mobile Communications	L1	Layer 1
GT	Global Title parameter	L2	Layer 2
HA	Home Agent	L3	Layer 3
HAC	Hearing Aid Compatibility	LAC	Link Access Control
HCO	Hearing Carry Over	LAES	Lawfully Authorized Electronic Surveillance
HDML	Handheld Device Markup Language	LAN	Local Area Network.
HLR	Home Location Register	LATA	Local Access Transport Area
HMAC-SHA	Hash-based Message Authentication Code - SHA	LBC	Location-Based Charging
HO	Hand Off	LBSS	Location Based Services System
ICO	Intermediate Circular Orbit	LEC	Local Exchange Carrier
ICS	Incoming Call Screening	LEO	Low Earth Orbit
IDEN	Integrated Digital Enhanced Network	LMCC	Land Mobile Communications Council
IETF	Internet Engineering Task Force	LMDS	Local Multipoint Distribution Service
IFAST	Formerly “International Forum on AMPS Standards Technology”; recently changed to “International Forum on ANSI-41 Standards Technology”	LPC	Linear Predictive Coding
IKE	Internet Key Exchange	LPM	Logical-to-Physical Mapping
ILEC	Incumbent Local Exchange Carrier	LRF	Location Registration Function
IM	InterModulation	LRFH	Location Registration Function – HLR
IMBE	Improved Multi-Band Excitation	LRFv	Location Registration Function – VLR
IMHO	In My Humble Opinion	LSB	Least Significant Bit
IMS	Intersystem Messaging Security	LSI	Location-Based Information Service
IMSCCID	Inter MSC Circuit Identification	LTU	Logical Transmission Unit
IMSI	International Mobile Station Identifier	MAC	Media Access Control
IMT	International Mobile Telecommunications	MACF	Mobile Station Access Control Function
IMT-2000	International Mobile Telecommunications – 2000	MAP	Mobile Application Part
IMTA	International Mobile Telecommunications Association	MC	Multi-Carrier
		MC	Message Center.
		MCC	Mobile Country Code
		Mcps	Megachips per second (10 <sup>6</sup> chips per second)
		MCSB	Message Control and Status Block

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MDN	Mobile Directory Number	OTAPA	Over the Air Parameter Administration
MHz	Megahertz ( $10^6$ Hertz)	OTASP	Over-the-Air Service Provisioning
MIN	Mobile Identification Number	OTD	Orthogonal Transmit Diversity
MIP	Mobile IP	PACA	Priority Access Channel Assignment
MIPS	Millions of Instructions Per Second	PACS	Personal Access Communications System
MNC	Mobile Network Code	PAMR	Public Access Mobile Radio
MNE	Mobile Network Entity	PAP	Password Authentication Protocol
MODRQ	Modification Request parameter	PC	Power Control
MODRQL	Modification Request List parameter	PCF	Packet Control Function
MODRSL	Modification Result List parameter	PCB	Paging Channel
MOPS	Millions of Operations Per Second.	PCI	Protocol Control Information
MOS	Mean Opinion Score	PCIA	Personal Communications Industry Association
MoU	Memo of Understanding	PCM	Pulse Coded Modulation
MPEG	Motion Picture Expert Group	PCMCIA	Personal Communications Manufacturer's Industry Association.
ms	Millisecond ( $10^{-3}$ second)	PCS	Personal Communications Services
MS	Mobile Station	PCS	Personal Communications System
MSA	Metropolitan Statistical Area	PCSC	Personal Communications Switching Center
MSB	Most significant bit	PDA	Personal Digital Assistant
MSC	Mobile Switching Center	PDE	Positioning Determining Element
MSID	Mobile Station Identifier	PDF	Portable Document Format
MT	Mobile Terminal	PDNR	Preliminary Draft of New Recommendation
MT	Modify Timer	PDSN	Packet Data Serving Node
MTA	Major Trading Area	PDU	Protocol Data Unit
MTn	Mobile Terminal n	PFC	Paging Frame Class Parameter
MUX	Multiplexer	PHS	Personal Handyphone System
MWIF	Mobile Wireless Internet Forum	PIC	Point In Call
NADC	North American Digital Cellular	PIMM	Point In Mobility Management
NAG	Network Reference Model (NRM), Acronyms & Definitions Group	PL	Physical Layer
NAI	Network Access Identifier	PL	Programming Lock
NAM	Number Assignment Module	PLMTS	Public Land Mobile Telecommunications Systems
NAMPS	Narrowband Advanced Mobile Phone Service	PM	Phase Modulation
NANP	North American Numbering Plan	PN	Project Number
NCG	Numbering Consulting Group	PN	Pseudo Noise
NDSS	Network Directed System Selection	POP	Point of Presence
NE	Network Entity	POPs	Persons of Population
NID	Network Identification	POTS	Plain Old telephone Service
NIST	National Institute for Standards and Technology.	PPC	Pre-Paid Charging
NMAG	Network Management Ad Hoc Group.	PPDN	Public Packet Data Network
NMSI	National Mobile Station Identity	PPM	Parts per million
NMT	Nordic Mobile Telephone	PPP	Point-to-Point Protocol
NNI	Network to Network Interworking	PRC	Premium Rate Charging
NP	Non-Public Service Mode	PRINFO	PSID/RSID Information Parameter
NPDATA	Non Public Data Parameter	PRLIST	PSID/RSID List Parameter
NPN	Network Provided Number	PSAP	Public Safety Answering Point
NPR	Noise Power Ratio	PSID	Private System Identifier
NRM	Network Reference Model	PSPDN	Public Switched Packet Data Network.
ns	Nanosecond ( $10^{-9}$ second)	PSTN	Public Switched Telephone Network
NSA	National Security Agency	PT	Plain Text
NSMA	National Spectrum Management Association	PUB	Post Usage Billing
NTIA	National Telecommunication Industry Association	PUF	Power Up Function
OAM&P	Operations Administration, Maintenance and Provisioning	Q13	Speech Codec Service Option for ANSI-95 at 13.3 Kbps
OATS	Over-the Air Activation TeleService	Q8	Speech Codec Service Option for ANSI-95 at 8 Kbps
OLC	Overload Class	Q-FIN	ITU equivalent to TIA Stage 1.
OMT	Overhead Message Train	QCELP	QUALCOMM Code Excited Linear Prediction
ORYX	AT&T data algorithm - according to Jim Reeds (AT&T-WS), it stands for a goat-like animal with long and sharp horns. SM.	QIB	Quality Indicator Bit
OS	Operations System	QOF	Quasi-Orthogonal Function
OTAF	Over-the-Air Function	QoS	Quality of Service
		QPCH	Quick Paging Channel



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QPSK	Quadrature phase shift keying	SCP	Service Control Point
R&O	Report & Order (FCC)	SCRARG	Script Argument parameter
RAAC	Reverse Analog Control Channel	SCRNAME	Script Name parameter
RACF	Radio Access Control Function	SCRRESULT	Script Result parameter
R-ACH	Reverse Access Channel	SDAE	Service Data Access Element parameter
RADIUS	Remote Authentication Dial In User Service	SDAEL	Service Data Access Element List parameter
RAM	Random Access Memory.	SDB	Short Data Burst
RAN	Radio Access Network	SDBTS	Short Data Burst Tele-Service
RAST	RAdio STandards	SDCC	Supplementary Digital Color Code
RBOC	Regional Bell Operating Company	SDF	Service Data Function
RC	Radio Configuration	SDR	Service Data Result parameter
R-CCCH	Reverse Common Control Channel	SDRL	Service Data Result List parameter
RCD	Resource Configuration Database	SDU	Service Data Unit
RCF	Radio Control Function	SEAD	Software Encryption Algorithm for Data
r-csch	Reverse Common Signaling Channel	SERVRSLT	Services Result Parameter
RDA	Rate Determination Algorithm	SG	Study Group
R-DCCH	Reverse Digital Control Channel	SID	Silence Descriptor
r-dsch	Reverse Dedicated Signaling Channel	SIM	Service Interactions Manager
r-dtch	Reverse Dedicated Traffic Channel	SIM	Subscriber Identity Module
R-EACH	Reverse Enhanced Access Channel.	SLP	Service Logic Program
REVAL	Recommendations on the Procedures for Evaluation of Radio Transmission Technologies for FPLMTS	SLPI	Service Logic Program Instance
RF	Radio Frequency	SM	Switching Manager
RLP	Radio Link Protocol	SMAF	Service Management Access Function
RMS	Root Mean Square	SME	Short Message Entity
RN	Radio Network	SME	Signal Message Encryption
ROLR	Receive Objective Loudness Rating	SMF	Service Management Function
RPE-LTP	Regular Pulse Excited LPC with Long Term Protection	SMR	Specialized Mobile Radio.
RRC	Radio Resource Control Function	SMS	Service Management System
RRP	Mobile IP Registration Reply	SMS	Short Message Service
RRQ	Mobile IP Registration Request	SMV	Selectable Mode Vocoder
RSA	Rivest, Shamir and Adleman – public key algorithm	SN	Service Node
RSA	Rural Service Area	SNHC	Synthetic/Natural Hybrid Coding
RSAG	Radio Spectrum Advisory Group	SO	Service Option
RSID	Residential System Identifier	SOC	System Operator Code
RsMA	Reservation Multiple Access	SOCS	SOC Status Parameter
RSSI	Received Signal Strength Indicator	SOM	Start of Message (bit).
RTF	Radio Terminal Function	SP	Standards Proposal
RTT	Radio Transmission Technology	SPASM	Subscriber Parameter Administration Security Mechanism
RUAC	Rejection of Undesired Annoying Calls	SPC	Service Programming Code
R-UIM	Removable User Identity Module	SPI	Security Parameter Index
RVC	Reverse Analog Voice Channel	SPL	Service Programming Lock.
SA	Security Association	sps	Symbols per second
SAC	Subscriber Access Control	SR	Spreading Rate
SACCH	Slow Access Control Channel	SR1	Spreading Rate 1
SAP	Service Access Point	SR3	Spreading Rate 3
SAR	Segmentation and Reassembly	SRAM	Static Random Access Memory
SAT	Supervisory Audio Tone	SRBP	Signaling Radio Burst Protocol
SBSL	Switch-Based Service Logic	SRD	Standards Requirements Document
SC	Smart Card	SRF	Specialized Resource Function
SCCH	Supplemental Code Channel	SRFDT	SRF Directive Timer
SCD	Satellite Communications Division	SS7	Signaling System 7
SCE	Service Creation Environment	SSD	Shared Secret Data
SCEF	Service Creation Environment Function	SSF	Service Switching Function
SCF	Service Control Function	SSFT	Service Switching Function Timer
SCFT	Service Control Function Timer	SSM	Switching State Model
SCH	Supplemental Channel	SSN	Sub-System Number
SCI	Synchronized Capsule Indicator Bit	SSP	Service Switching Point
SCM	Station Class Mark	SSPR	System Selection for Preferred Roaming
		SSUI	Standard Subscriber Unit Interface.
		ST	Search Timer

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STG	Science & Technology Group (CTIA)	UDP	User Datagram Protocol
STS	Space Time Spreading	UDR	Usage Data Record
STU	Secure Telephone Unit	UG	User Group
SWG	Sub-Working Group	UIM	User/Universal Identity Module
SYSCAP	System Capabilities	UMAC	Universal Mobile Attenuation Code
SZRT	Seize Resource Timer	UMTS	Universal Mobile Telecommunication System
T_Bits	Time Alignment Bits	UNI	User Network Interface
TA	Terminal Adapter	UPN	User Provided Number
TACS	Total Access Communications Systems	UPT	Universal Personal Telecommunications
TCAP	Transaction Capability Application Part	URCDT	Unreliable Call Data Timer
TCAU	Telecommunications Contract & Audit Unit (FBI)	US1	US 1 Codec (12.2 kbps)
TCME TFO	Circuit Multiplication Equipment	USCF	User Selective Call Forwarding
TCP	Transmission Control Protocol	USNC	United States National Committee
TCP/IP	Transport Control Protocol / Internet Protocol	UTC	Universal Temps Coordiné (Universal Coordinated Time)
TD	Transmit Diversity including OTD and STS	UTRA	UMTS Radio Terrestrial Access
TDD	Telecommunications Device for the Deaf	UWCC	Universal Wireless Communications Consortium
TDD	Time Division Duplex	UZ	User Zone
TDP	Trigger Detection Point	UZDATA	User Zone Data Parameter
TDP-N	Trigger Detection Point - Notification	V&V	Verification & Validation
TDP-R	Trigger Detection Point - Request	VBR	Variable Bit Rate
TDT	T Disconnect Timer	VCO	Voice Carry Over
TE	Terminal Equipment	VCS	Voice Controlled Services
TEn	Terminal Equipment n	VHE	Virtual Home Environment
TETRA	Terrestrial Trunked Radio	VLR	Visitor Location Register
TFO	Tandem Free Operation	VMAC	Voice Mobile Attenuation Code
TG	Task Group	VPM	Voice Privacy Mask
TIA	Telecommunications Industry Association	VSC	Vertical Service Code
TILU	Telecommunications Industry Liaison Unit (FBI)	VSELP	Vector Sum Excited Linear Prediction
TINA-C	Telecommunications Information Networking Architecture Consortium	VSWR	Volt Standing Wave Ratio
TLDN	Temporary Local Directory Number	WAN	Wide Area Network
TMSI	Temporary Mobile Station Identification	WAP	Wireless Application Protocol
TOD	Time of Day parameter	WARC	World Administration Radio Conference
TOI	Third Order Intercept.	WBSS	WideBand Spread Spectrum
TOLR	Transmit Objective Loudness Rating	WCAT	Wireless Cellular Action Team
TR	Transmit-Receive (as in TR45)	W-CDMA	Wideband Code Division Multiple Access
TRAU	Transcoder and Rate Adaptor Unit	WCS	Wireless Communications Service
TRIGADDRLIST	Trigger Address List parameter	WG	Working Group
TRIGCAP	Trigger Capability parameter	WIF	Wireless Interconnect Forum
TRIGLIST	Trigger List parameter	WIN	Wireless Intelligent Network
TRIGTYPE	Trigger Type parameter	WINCAP	WIN Capability parameter
TRS	Telecommunication Relay Service.	WINOPCAP	WIN Operations Capability parameter
TRU	Transmit-Receive Unit	WINRT	WIN Response Timer
TSB	Telecommunications Systems Bulletin	WLL	Wireless Local Loop
TSSC	Technical Standards Subcommittee	WMOPS	Weighted Millions of Operations Per Second
TTA	Telecommunications Technology Association (Korea)	WNP	Wireless Number Portability
TTC	Telecommunication Technology Committee (Japan)	WP	Working Party
TTL	TRAU-TRX-Link	WRE	Wireless Residential Extension
TTL	Transistor-Transistor Logic	wrt	with respect to
TTY	Teletype	WTRIGLIST	WIN Trigger List parameter
		□	