



## System Release Guide for the (R4) Release of the cdma2000 System Specifications

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## 1. INTRODUCTION

This document is the System Release Guide (SRG) for the Release 4 of the 3GPP2 wireless telecommunication system. It is developed and maintained under the auspices of 3GPP2 TSG-S, the TSG for Services and Systems Aspects for 3GPP2.

### 1.1 Document Purpose

The objective of this document is to provide an informative overview for and reference to the Release 4 of the 3GPP2 wireless telecommunication system (cdma2000®)<sup>1</sup> capabilities, features and services. This document is intended for use by persons and/or companies who are developing or deploying cdma2000 systems or by persons who are otherwise interested in 3GPP2 wireless telecommunications systems.

In order to be compliant with this 3GPP2 system release, mandatory features must be implemented. However, the set of optional features implemented in a given system is decided by the operators and manufacturers. The individual specifications indicate the mandatory and optional nature of features. This system release includes only features and capabilities that are part of a published 3GPP2 specification(s).

## 2. DOCUMENT REFERENCES

A normative reference refers to the most recent version of each document that supports the end-to-end features of the release.

### 2.1 Normative References

A.S0006-0	v1.0	Interoperability Specification (IOS) for Hybrid Mobile Station/Access Terminal (HAT) Authentication, Using the CAVE Algorithm
A.S0009-B	v1.0	Interoperability Specification (IOS) for High Rate Packet Data (HRPD) Radio Access Network Interfaces with Session Control in the Packet Control Function
A.S0011-D	v1.0	Interoperability Specification (IOS) for cdma2000 Access Network Interfaces - Part 1 Overview (IOS v5.0)
A.S0012-D	v1.0	Interoperability Specification (IOS) for cdma2000 Access Network Interfaces - Part 2 Transport (IOS v5.0)

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A.S0013-D	v1.0	Interoperability Specification (IOS) for cdma2000 Access Network Interfaces - Part 3 Features (IOS v5.0)
A.S0014-D	v1.0	Interoperability Specification (IOS) for cdma2000 Access Network Interfaces - Part 4 (A1, A1p, A2 and A5 Interfaces) (IOS v5.0)
A.S0015-D	v1.0	Interoperability Specification (IOS) for cdma2000 Access Network Interfaces - Part 5 (A3 and A7 Interfaces) (IOS v5.0)
A.S0016-D	v1.0	Interoperability Specification (IOS) for cdma2000 Access Network Interfaces - Part 6 (A8 and A9 Interfaces) (IOS v5.0)
A.S0017-D	v1.0	Interoperability Specification (IOS) for cdma2000 Access Network Interfaces - Part 7 (A10 and A11 Interfaces) (IOS v5.0)
C.S0001-D	v2.0	Medium Access Control (MAC) Standard for cdma2000 Spread Spectrum Systems
C.S0002-D	v2.0	Physical Layer Signaling Standard for cdma2000 for Spread Spectrum Systems
C.S0003-D	v2.0	Medium Access Control (MAC) Standard for cdma2000 Spread Spectrum Systems
C.S0004-D	v2.0	Signaling Link Access Control (LAC) Standard for cdma2000 Spread Spectrum Systems
C.S0005-D	v2.0	Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems - Release C
C.S0006-D	v2.0	Analog Signaling Standard for cdma2000 Spread Spectrum Systems
C.S0010-C	v2.0	Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Base Stations
C.S0011-C	v2.0	Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Mobile Stations
C.S0014-A	v1.0	Enhanced Variable Rate Codec, Speech Service Option 3 for Wideband Spread Spectrum Digital Systems

C.S0016-C	v1.0	Over-the-Air Service Provisioning of Mobile Stations in Spread Spectrum Standards
C.S0017-010-A	v2.0	Data Services - Radio Link Protocol
C.S0017-012-A	v2.0	Data Services SO
C.S0020-A	v1.0	High Rate Speech Service Option 17 for Wide Band Spread Spectrum Communication Systems
C.S0022-A	v1.0	Position Determination Service for Dual Mode Spread Spectrum Systems
C.S0023-C	v1.0	Removable User Identity Module for Spread Spectrum Systems - Revision C
C.S0024-B	v1.0	cdma2000 High Rate Packet Data Air Interface Specification
C.S0025-0	v2.0	Markov Service Option (MSO) for cdma2000 Spread Spectrum Systems
C.S0026-A	v1.0	Test Data Service Option (TDSO) for cdma2000 Spread Spectrum Systems
C.S0028-A	v1.0	TTY/TDD Minimum Performance Specification
C.S0029-A	v1.0	Test Application Specification (TAS) for High Rate Packet Data Air Interface
C.S0030-0	v3.0	Selectable Mode Vocoder (SMV) Service Option for Wideband Spread Spectrum Communication Systems - Addendum
C.S0032-A	v1.0	Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Network - Revision A
C.S0033-A	v1.0	Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Terminal
C.S0034-0	v1.0	Minimum Performance Specification for the Selectable Mode Vocoder, Speech Service Option 56 for Wideband Spread Spectrum Digital Systems

C.S0035-A	v1.0	CDMA Card Application Toolkit (CCAT)
C.S0038-A	v1.0	Signaling Conformance Specification for High Rate Packet Data Air Interface
C.S0039-0	v2.0	Enhanced Subscriber Privacy for cdma200 High Rate Packet Data
C.S0040-0	v1.0	IP Based Over-the-Air Handset Configuration Management (IOTA-HCM)
C.S0046-0	v1.0	3G Multimedia Streaming Services
C.S0048-0	v1.0	Mobile Equipment (ME) Conformance Testing for cdma2000 Spread Spectrum Standards
C.S0049-0	v2.0	Removable User Identity Module Conformance Testing for Spread Spectrum Systems
C.S0050-A	v1.0	3GPP2 File Formats for Multimedia Services
C.S0052-A	v1.0	Source-Controlled Variable-Rate Multimode Wideband Speech Codec (VMR-WB), Service Options 62 and 63 for Spread Spectrum Systems
C.S0053-A	v1.0	Minimum Performance Specification for the Source-Controlled Variable-Rate Multimode Wideband Speech Codec (VMR-WB), Service Options 62 and 63 for Spread Spectrum Systems
C.S0054-A	v1.0	cdma2000® High Rate Broadcast-Multicast Packet Data Air Interface Specification - Revision A
C.S0057-B	v1.0	Band Class Specification for cdma2000 Spread Spectrum Systems
C.S0058-0	v1.0	Over-the-Air Interoperability Test Specification for cdma2000 Air Interface
C.S0060-0	v1.0	Signaling Conformance Test Specification for Over-the-Air Service Provisioning
C.S0061-0	v1.0	SMS Signaling Conformance Tests for CDMA Base Stations and Mobile Stations



C.S0066-0	v1.0	Over-the-Air Service Provisioning for MEID-Equipped Mobile Stations in Spread Spectrum Systems
C.S0067-0	v1.0	Generic Key Exchange Protocol for High Rate Packet Data Systems
C.S0068-0	v1.0	ME Personalization for cdma2000
C.S0076-0	v1.0	Discontinuous Transmission (DTX) of Speech in cdma2000 Systems
C.S0077-0	v1.0	Broadcast Multicast Service for cdma2000 1x Systems
S.S0028-A	v3.0	OAM&P for cdma2000 (3GPP R4 Delta Specification)
S.S0078-A	v3.0	Common Security Algorithms
S.S0109-0	v1.0	General Bootstrapping Architecture (GBA) Framework
S.S0114-0	v1.0	Security Mechanisms Using GBA
X.S0002-0	v2.0	MEID Support for MAP Location Services Enhancements
X.S0003-0	v1.0	One-Way Roaming from X.S0004 to GSM
X.S0006-0	v1.0	MAP Support of Authentication and Key Agreement
X.S0008-0	v2.0	MAP Support for the Mobile Equipment Identity (MEID)
X.S0009-0	v1.0	Wireless Intelligent Network Support for Location Based Services
X.S0010-A	v1.0	Pre-Paid Charging Enhancements for Circuit Switched Data and Short Message Services
X.S0012-0	v2.0	Legacy MS Domain Step 1
X.S0014-E	v2.0	Wireless Radio Telecommunications Intersystem Non-Signaling Data Communication DMH (Data Message Handler)
X.S0021-B	v1.0	Roamer Database Verification
X.S0023-B	v1.0	Network Interworking Between GSM MAP and TIA-41 MAP - cdma2000 Support

X.S0025-0	v1.0	Legacy MS Domain - Step 2
X.S0028-000-0	v1.0	WLAN-Interworking
X.S0028-100-0	v1.0	Wireless Local Area Network (WLAN) Interworking
X.S0030-0	v1.0	MAP Enhancements to Support Enhanced Message Waiting Notification (MWN)
X.S0033-0	v2.0	OTA Support for MEID
X.S0034-0	v1.0	cdma2000/GPRS Roaming
X.S0037-0	v1.0	Tunneling Support in Simple IP

## **2.2 Informative References**

C.R0014-A	v1.0	Software Distribution for Enhanced Variable Rate Codec (EVRC), Speech Service Option 3, Specification
C.R0020-A	v1.0	Software Distribution for High Rate Speech (13k), Service Option 17, Specification
C.R0028-A	v1.0	Software Distribution for TTY, Minimum Performance Specification (MPS)
C.R0030-0	v3.0	Software Distribution for Selectable Mode Vocoder (SMV), Service Option 56, Specification
C.R0034-0	v1.0	Software Distribution for Selectable Mode Vocoder (SMV), Service Option 56, Minimum Performance Specification (MPS)
C.R0052-A	v1.0	Software Distribution for Source-Controlled Variable-Rate Multimode Wideband Speech Codec (VMR-WB) Service Options 62 and 63, Specification
C.R0053-A	v1.0	Software Distribution for Source-Controlled Variable-Rate Multimode Wideband Speech Codec (VMR-WB) Service Options 62 and 63, Minimum Performance Specification (MPS)
C.R1001-E	v1.0	Administration of Parameter Value Assignments for cdma2000 Spread Spectrum Standards

- S.R0018-0 v1.0 Prepaid Services (Stage 1)
- S.R0021-0 v2.0 Multimedia Streaming Stage 1
- S.R0038-0 v2.0 Evolution Document
- S.R0048-A v4.0 3G Mobile Equipment Identifier (MEID) - Stage 1
- S.R0057-0 v1.0 IP Based Service Architecture System Requirements
- S.R0060-0 v1.0 Removable User Identity Module (R-UIM) Mobile Equipment (ME) Interface Testing
- S.R0061-0 v1.0 Wireless Immediate Messaging
- S.R0071-0 v1.0 Legacy System Packet Data Surveillance Requirements
- S.R0072-0 v1.0 IP System Packet Data Surveillance Requirements
- S.R0073-0 v1.0 Internet Over-the-Air Handset Configuration Management
- S.R0074-0 v1.0 Multimedia File Format Stage 1
- S.R0075-0 v1.0 Accounting and Auditing All-IP System Requirements
- S.R0080-0 v1.0 Wide Band Speech Codec for cdma2000 Systems Stage 1
- S.R0087-0 v1.0 WLAN Networking - Stage 1 Requirements
- S.R0092-0 v1.0 Legacy MS Domain, Step 2 -- System Requirements
- S.R0096-0 v1.0 Transcoder Free Operation -- Stage 1 Requirements
- S.R0104-0 v1.0 HRPD Network Access Authentication for a Hybrid Access Terminal (HAT) with an R-UIM Used to Access Spread Spectrum Systems - System Requirements
- SC.R4001-0 v1.0 Global Wireless Equipment Numbering Administration Procedures
- SC.R4002-0 v3.0 Mobile Equipment Identifier (MEID) GHA (Global Hexadecimal Administrator) Assignment Guidelines and Procedures

### **3. DEFINITIONS**

Normative Reference	The most recent version of each specification that supports the end-to-end features of the release.
Informative Reference	The most recent version of each report that supports the end-to-end features of the release.

### **4. SYSTEM RELEASE CONTENT AND FEATURE DESCRIPTION**

The features and capabilities provided by this cdma2000 system release are listed in Table 1. This release includes new and enhanced features added since the publication of [SC.R2003-002-0 v1.0](#): System Release Guide for the Release (Alpha) of the cdma2000 System Specifications. For the list of features in 3GPP2 System Release 3 (Alpha), please refer to [SC.R2003-002-0 v1.0](#).

**Table 1 – Features Supported by this Release**

<b>Work Item Number</b>	<b>Feature Name</b>	<b>Description</b>	<b>Specs &amp; Reports</b>
00011	Network Enhancement to Support CDMA SIM Roaming to GSM	Support for roaming from ANS-41 to GSM systems by encapsulation of the ANS-41 CAVE authentication parameters in the larger GSM authentication parameter fields on a GSM SIM card.	X.S0003-0 v1.0 X.S0023-B v1.0 X.S0034-0 v1.0
00014	WIN Pre-Paid Charging Enhancements	Enhance Pre-paid charging services using WIN capabilities	S.R0018-0 v1.0 X.S0010-A v1.0
00016	LCS Authentication/Privacy/Security and Enhancements	When an originating party requests the location of the mobiles, the originating part is authenticated. In this scenario the destination party has the capability to restrict access to information about its location.	X.S0002-0 v1.0 X.S0002-0 v2.0
00018-A	Enhancements to Roamer Database Verification	An OA&M feature that provides more control over queries to check that roaming data is correctly provisioned.	X.S0021-B v1.0
00021	WIN Location Based Services - Phase III	Fleet and Asset Management (FAM), Location Based Charging (LBC), Location Based Information Service (LBIS) and Enhanced Call Routing (ECR) are WIN based services which allow the service to be tailored based on the subscriber's current location.	X.S0009-0 v1.0

Work Item Number	Feature Name	Description	Specs & Reports
00023	R-UIM to MS Interface Test Specification	This work item presents a recommended plan for the implementation of Wireless Intelligent Network (WIN) capabilities that support these services.	
00023	R-UIM to MS Interface Test Specification	This specification seeks to define how to test the interface between a ME and an R-UIM. It will provide specific test cases and procedures to follow to ensure full interoperability between all ME's and R-UIMs.	C.S0041-0 v1.0, C.S0048-0 v1.0, C.S0049-0 v1.0, S.R0060-0 v1.0
00025- HRPD	Enhanced Security Services for HRPD	The purpose of this work item is to define enhanced security capabilities for HRPD.	C.S0022-A v1.0, C.S0039-0 v2.0, S.S0078-A v3.0, X.S0006-0 v1.0
00026-A	Legacy MS Domain - Step 2 (LMSD Step 2)	Step 2 in the conversion of the circuit switched network to an all IP network.	X.S0012-0 v2.0
00029	IP-Based Service Architecture	The IP-based Service Architecture stage-1 defines the functionality of the different components in the service architecture and the requirements for the service interface between the service applications and core network.	S.R0057-0 v1.0
00030	Immediate Messaging	This feature provides the communication in near real time to	S.R0061-0 v1.0

Work Item Number	Feature Name	Description	Specs & Reports
00032	Legacy System Packet Data Surveillance	and from subscribers. The communications may be in any format, but are typically short in nature.  Legacy System Packet Data Surveillance is under the control of regional Standards Development Organizations. 3GPP2 may consult as requested individual SDOs. References to the SDOs' relevant documents are optional and are to be included at the discretion of the individual SDO.	S.R0071-0 v1.0
00033	All IP Packet Data Surveillance	All IP Packet Data Surveillance is under the control of the regional Standards Development Organizations. 3GPP2 may consult, as requested, by individual SDOs. Reference to the SDOs relevant documents are optional and included at the discretion of the individual SDO.	S.R0072-0 v1.0
00040	3G Mobile Equipment Identifiers (MEID)	The purpose of this work item is to initiate a program for standardization of adopting a universal mobile equipment identifier for global roaming and harmonization and meet the objectives as easing ESN	C.S0004-D v1.0 C.S0005-D v1.0 C.S0016-C v1.0 C.S0066-0 v1.0 S.R0048-0 v1.0 X.S0008-0 v1.0

Work Item Number	Feature Name	Description	Specs & Reports
00044	Internet Over-the-Air Handset Configuration Management (IOTA)	exhaustion, providing quality tracking for manufacturers and providing quality tracking and marketing information for Service Providers.  Defines a standardized set of procedures that shall be incorporated in the operations of cdma2000 based Internet Over-the-Air handset Configuration Management (IOTA). This will be used to allow handset provisions, software maintenance, and download to be done over existing cdma2000 data service options.	C.S0040-0 v1.0 S.R0073-0 v1.0
00045	Wideband Speech Codec for cdma2000 Systems		A.S0011-17-C v1.0 A.S0011-17-C v2.0 C.R0052-0 v1.0 C.R0052-A v1.0 C.S0052-0 v1.0 C.S0052-A v1.0 C.R0053-0 v1.0 C.S0053-0 v1.0 C.R0053-A v1.0 C.S0053-A v1.0 S.R0080-0 v1.0
00046	Data Message Handler		X.S0014-E v1.0 X.S0014-F v1.0



<b>Work Item Number</b>	<b>Feature Name</b>	<b>Description</b>	<b>Specs &amp; Reports</b>
00047	File and Media Format for Multimedia Services	File format and media format requirements are specified, to which all 3GPP2 Multimedia Service (e.g., Multimedia Messaging Services, Multimedia Streaming Services) will refer commonly. The common media coding, multiplexing, and packaging to a file based on the requirement ensure interoperability between multimedia services.	C.S0050-0 v1.0 C.S0050-A v1.0 S.R0074-0 v1.0
00054	R-UIM/ME Locking Mechanism (Mobile Equipment Personalization)	The purpose of this work item is to initiate a program to standardize a locking mechanism between a CDMA ME (mobile equipment) and R-UIM. The locking mechanism would provide the means for an operator to protect their investment in the R-UIM and handset by restricting which device the R-UIM or ME will work with. Means of multiple levels of protection, e.g. service provider lock, network lock, corporate and user lock, would be provided to satisfy various applications.	C.S0068-0 v1.0
00055	Multimedia Streaming Service (MSS)	Multimedia streaming refers to a technique of delivery of certain types of multimedia content to a wireless terminal, whereby there exists a partial overlap of the transmission of	C.S0046-0 v1.0 S.R0021-0 v1.0 S.R0021-0 v2.0

Work Item Number	Feature Name	Description	Specs & Reports
00059	MEID Mobile Equipment Identifier Enhancements	content over the radio interface and its replay at the mobile terminal.	A.S0011-17-C v1.0 A.S0011-17-C v2.0 C.S0005-D v1.0 C.S0005-D v2.0 C.S0016-C v1.0 C.S0023-C v1.0 C.S0066-0 v1.0 SC.R4001-0 v1.0 SC.R4002-0 v1.0 SC.R4002-0 v3.0 S.R0048-A v1.0-v4.0 X.S0008-0 v2.0 X.S0033-0 v1.0 X.S0033-0 v2.0
00062	Wireless Local Area Network Interworking (WLAN)	This work item addresses the interworking (i.e., moving in either direction) between 3GPP2 CDMA2000 systems and WLANs owned and operated by CDMA2000 operators and by others. Support for roaming, accounting, value added services (such as location and presence services), single subscription, security, authentication, authorization, and session continuity should be considered. Important is the coordination of this work with the	S.R0087-0 v1.0 X.S0028-0 v1.0 X.S0028-A v1.0

Work Item Number	Feature Name	Description	Specs & Reports
		corresponding work in 3GPP.	
00062-A	WLAN-3G1X Circuit-Switched Voice Interworking	Extend the WLAN Interworking WI (00062) to allow access to 3GPP2 circuit-switched voice service & support of handoff between WLAN and 3G1x CS systems.	
00067-A- HRPD	Voice Over IP (VoIP) Phase II for HRPD	The VoIP - Phase II Work Item (WI) identifies cdma2000 network system features and capabilities that enhance the support of voice as packets over Internet Protocol (IP).	A.S0009-A v1.0
00068	Selectable Mode Vocoder (SMV)		A.S0011-17-A v2.0 A.S0011-17-B v1.0 C.R0030-0 v3.0 C.R0034-0 v1.0 C.S0030-0 v1.0 C.R0030-0 v2.0 C.S0030-0 v3.0 C.S0034-0 v1.0
00071	LMSD Step 2		A.S0011-17-C v1.0 A.S0011-17-C v2.0 S.R0038-0 v2.0 S.R0092-0 v1.0 X.S0025-0 v1.0
00072	Transcoder Free Operation (TrFO)		A.S0011-17-C v1.0 A.S0011-17-C v2.0 S.R0096-0 v1.0 X.S0025-0 v1.0

Work Item Number	Feature Name	Description	Specs & Reports
00075	HRPD Performance Enhancements		A.S0008-A v1.0 A.S0009-A v1.0 A.S0009-B v1.0 C.S0024-A v1.0 C.S0024-A v2.0 C.S0024-B v1.0 C.S0029-A v1.0 C.S0032-A v1.0 C.S0033-A v1.0 C.S0038-A v1.0
00085	HRPD Authentication for a Hybrid Mobile Station/Access Terminal (HAT) using 1x UIM	A hybrid mobile station/access terminal (HAT) is a device which can access both cdma2000® 1x and HRPD access networks for packet data services. To access the 1x network, the HAT that has a UIM uses UIM-supported CAVE-based authentication. To access the HRPD network, an optional access network authentication step may be required by the HRPD network. This optional step currently uses MD5-based authentication using CHAP to exchange the challenge and response. It is important to note that MD5 is not currently supported by a UIM. This work item allows an operator that deploys both a 1x and HRPD network to use CAVE-based authentication for access to both	A.S0006-0 v1.0 S.R0104-0 v1.0

<b>Work Item Number</b>	<b>Feature Name</b>	<b>Description</b>	<b>Specs &amp; Reports</b>
		networks by a HAT with a UIM.	
00089	Enhancements for Message Waiting Notification Count	Message Waiting Notification optimization.	X.S0030-0 v1.0
00092	Multi-Carrier Support for EV-DO (NxEV-DO)	Multi-carrier EV-DO	C.S0024-B v1.0
00096	C.S0054-0 HRPD BCMCS Air Interface Point Release	Point Release for High Rate Broadcast-Multicast Packet Data Air Interface Spec.	C.S0054-0 v2.0
00101	Broadcast Multicast Service Option for Spread Spectrum Systems	The BCMCS SO specification is used to specify the cdma2000 1x-EVDV air-interface requirements of the bearer path of the BCMCS. The work will include but not be limited to the BCMCS Session Control Function and the Segment-Based framing protocol.	C.S0077-0 v1.0
00103	Tunneling Support in Simple IP	A standard tunneling scheme is required in the case of Simple IP based access.	X.S0037-0 v1.0
00104	Generic Bootstrapping Architecture	Generic architecture providing the possibility to generate a common shared key between the Mobile Station (MS) and the entities affiliated with the network, after the network authenticates the MS.	S.S0109-0 v1.0 S.R0112-0 v1.0 S.S0114-0 v1.0

<b>Work Item Number</b>	<b>Feature Name</b>	<b>Description</b>	<b>Specs &amp; Reports</b>
00109	Signaling Conformance Specification for C.S0024-A	Signaling conformance specification for C.S0024-A	C.S0038-A v1.0
00112	Point Release to C.S0017-010-A v1.0	Prepare a bug fix point release to C.S0017-010-A to address bugs.	C.S0017-010-A v2.0
00113	800 MHz Band Class Updates for Japan	Update the cdma2000 Band Class specification to support rearranged 800 MHz frequency band in Japan as assigned for IMT-2000 systems.	C.S0057-A v1.0 C.S0057-B v1.0
00118	Signaling conformance specification for C.S0054-0	Signaling conformance specification for C.S0054-0	C.S0038-A v1.0
00121	Point Release for C.S0049-0 (R-UIM Conformance)	Point Release for C.S0049-0 (R-UIM Conformance)	C.S0049-0 v2.0
00127	Discontinuous Transmission (DTX) of Speech in cdma2000 Systems	The purpose of this work item is to establish a specification for discontinuous transmission (DTX) in the context of voice over IP (VoIP) transmitted over cdma2000 packet channels.	C.S0076-0 v1.0
00135	HRPD Supplemental Services Update	Develop a point release to C.S0063.	C.S0063-0 v2.0 C.S0063-A v1.0
00136	Update to Data Service Options for Spread Spectrum Systems: Service Options 33 and 66	Prepare a bug fix point release to C.S0017-012-A to address bugs.	C.S0017-012-A v2.0

<b>Work Item Number</b>	<b>Feature Name</b>	<b>Description</b>	<b>Specs &amp; Reports</b>
00139	Alteration to cdma2000 BS Spurious Emission Minimum Performance Specifications (MPS)	Version update for C.S0010-C.	C.S0010-C v2.0
00140	Alteration to cdma2000 MS Spurious Emission Minimum Performance Specification (MPS)	C.S0011-C version update.	C.S0011-C v2.0
00143	Revision of Band Class Specification for cdma2000	Revision of C.S0057-B v1.0	C.S0057-B v1.0
00148	Markov Service Option (MSO) point release to clarify "E" synchronization parameter definition and address bugs.	Develop a point release for C.S0025 (Markov Service Option (MSO) for cdma2000 Spread Spectrum Systems) to fix any bugs that may exist in the latest specification and clarify text associated with the setting of the "E" synchronization parameter.	C.S0025-0 v2.0
00155	Point Release for C.P0039-0 v2.0: Enhanced Subscriber Privacy for cdma2000 High Rate Packet Data	Point Release for C.P0039-0 v2.0	C.S0039-0 v2.0

## **5. 3GPP2 ABBREVIATIONS**

The 3GPP2 abbreviations below are used throughout the system release.

BCMCS	Broadcast/Multicast Services
DM	Device Management
HAT	Hybrid Access Terminal
HRPD	High Rate Packet Data
IMS	IP Multimedia Subsystem
IOS	Interoperability Specification
IOTA	Internet Over-the-Air
ISIM	IMS Subscriber Identity Module
MMD	Multimedia Domain
MMS	Multimedia Messaging
MS	Mobile Station
NFCC	Network Firewall Configuration & Control
POC	Push-to-Talk Over Cellular
QoS	Quality of Service
WLAN	Wireless Local Area Network
UICC	Universal Integrated Circuit Card