

Errata for “Universal Serial Bus CDC Subclass Specification for Wireless Mobile Communications Devices Revision 1.1 February 9, 2007” as of July, 2012 Draft 2

Issue A.

Related to: 1.2 Scope

Issue: MBIM are missing in the list of subclasses

Resolution: Add MBIM

This document specifies new device subclasses intended for use with Wireless Mobile Communications devices, based on [USBCDC1.2], [USBPSTN1.2], [USBECM1.2] ~~and~~ [USBNCM1.0] and [USBMBIM1.0]

Issue B.

Related to: 1.3 related documents

Issue: MBIM is missing in list of related documents.

Resolution: Correction as follows.

Reference	Description
[3GPP27.007]	AT command set for User Equipment (UE), 3rd Generation Partnership Project; Technical Specification Group Terminals, Document 27.007, Version 3.9.0 (June 2001). Available on-line at http://www.3gpp.org/ftp/Specs/2001-06/R1999/27_series/27007-390.zip .
[Bluetooth Reserved Numbers]	The reserved numbers section of official Bluetooth website www.bluetooth.org .
[C-S0017-0]	3GPP2 TSG.C Specification C-S0017-0. Specifies AT command sets to be used for cmda2000 mobile terminals. Available on-line from http://www.3gpp2.org/public_html/specs/tsgc.cfm .
[GSM07.07]	ETSI GTS GSM 07.07 V5.0.0 (1996-07) Digital cellular telecommunications system (Phase 2+); AT command set for GSM Mobile Equipment (ME) (GSM 07.07), ETSI. Available on-line at http://www.etsi.org/ .
[INTTD]	<i>USB Telephony Devices: Interfaces for Value-Add Feature Set</i> , Version 1.00, June 19, 2000, Intel Corporation.
[LEACH1998]	<i>UUIDs and GUIDs</i> , Paul J. Leach et al, IETF draft draft-leach-uuids-guids-01.txt., February 4, 1998.
[MICBUS]	<i>Guidelines for Bus and Device Specifications</i> , Version 1.0a, March 29, 2000, Microsoft Corporation. This specification is available online from Microsoft, http://www.microsoft.com/whdc/archive/specguide.msp
[MICMFD]	<i>Designing Multifunction Devices for Windows Operating Systems</i> , Version 1.0, April 25, 2000, Microsoft Corporation. This specification is available online from Microsoft, http://www.microsoft.com/whdc/device/mf/mfdesin.msp .
[OBEX1.2]	<i>IrDA Object Exchange Protocol IrOBEX</i> , V1.3. This specification is available online from the website http://www.irda.org .
[OPENC309]	DCE: Remote Procedure Call, Open Group CAE Specification C309 ISBN 1-85912-041-5 28cm. 674p. pbk. 1,655g. 8/94
[PCCA101]	PCCA STD-101, Data Transmission Systems and Equipment - Serial Asynchronous Automatic Dialing and Control for Character Mode DCE on Wireless Data Services, Portable Computer and Communications Association. Available on-line at

	http://www.pcca.org/standards . Annexes to this document are:
[PCCA101-A]	common commands, in main document (== TIA/EIA-678 Annex A)
[PCCA101-D]	<i>Pad Control</i> , http://www.pcca.org/standards/Annex_d.doc , (== TIA/EIA-678 Annex D)
[PCCA101-F]	<i>Commands for wireless networks</i> , http://www.pcca.org/standards/Annex_f.doc (== TIA/EIA-678 Annex B)
[PCCA101-I]	<i>Commands for Analog Cell Phones</i> , http://www.pcca.org/standards/Annex_i.doc (== TIA/EIA-678 Annex C)
[PCCA101-L]	<i>Commands for CDPD modems</i> , http://www.pcca.org/standards/Annexl20.PDF (not in TIA/EIA-678)
[PCCA101-O]	<i>Commands for Wakeup control</i> , http://www.pcca.org/standards/Annex_o_ballot_version.doc (not in TIA/EIA-678)
[USB2.0]	<i>Universal Serial Bus Specification</i> , revision 2.0 (also referred to as the <i>USB Specification</i>). This specification is available on the World Wide Web site http://www.usb.org .
[USBAUD1.0]	<i>Universal Serial Bus Device Class Definition for Audio Devices</i> , Release 1.0. This specification is available on the World Wide Web site http://www.usb.org .
[USBCDC1.2]	<i>Universal Serial Bus Class Definitions for Communications Devices</i> , Version 1.2. This specification is available on the World Wide Web site http://www.usb.org .
[USBDFU1.0]	<i>Universal Serial Bus Device Class Specification for Device Firmware Upgrade</i> , Release 1.0. This specification is available on the World Wide Web site http://www.usb.org .
[USBHID1.1]	<i>Universal Serial Bus Device Class Definition for Human Interface Devices</i> , Version 1.1. This specification is available on the World Wide Web site http://www.usb.org .
[USBECM1.2]	Universal Serial Bus USB CDC Subclass Specification for Ethernet Control Model Devices, Release 1.2. This specification is available on the World Wide Web site http://www.usb.org .
[USBMASS1.1]	<i>Universal Serial Bus Mass Storage Class Specification Overview</i> , Release 1.1. This specification is available on the World Wide Web site http://www.usb.org .
[USBPSTN1.2]	Universal Serial Bus USB CDC Subclass Specification for PSTN Devices, Release 1.2. This specification is available on the World Wide Web site http://www.usb.org .
[USBNCM1.0]	Universal Serial Bus Communications Class Subclass Specifications for Network Control Model Devices, Release 1.0. This specification is available on the World Wide Web site http://www.usb.org .
[USBMBIM1.0]	<i>Universal Serial Bus Communications Class Subclass Specifications for Mobile Broadband Interface Model</i> , Release 1.0. This specification is available on the World Wide Web site http://www.usb.org .

Field Code Changed

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Issue C.

Related to: Table 2-1 Sample Function Representation

Issue: Missing MBIM in sample functions.

Resolution: Correction as follows.

Table 2-1: Sample Function Representation

Function	Representation	Endpoints
voice (AT-command call control)	Telephone Control Model (TCM) with AT commands (02-03-pp) + Audio	Interrupt IN + audio stream ISO OUT + audio stream ISO IN
voice (AT-command call control, plus ability to use handset's keypad in host, and to use	Telephone Control Model (TCM) with AT commands (02-03-pp) + Audio + HID	TCM Interrupt IN + audio stream ISO OUT (to network) + audio stream ISO IN (from network) + audio stream ISO OUT (to

handset's speaker and microphone as host peripherals)		headset earpiece) + audio stream ISO IN (from headset microphone + HID Interrupt IN
fax/modem	ACM (02-02-pp) + Data	Interrupt IN + Data Class Bulk OUT & Bulk IN
OBEX	OBEX (02-0Bh0B-00), + Data Class	Data Class Bulk OUT & Bulk IN
Ethernet Frame (fixed service)	CDC Ethernet Networking Control Model (ECM) (02-06-00) + Data	Interrupt IN + Data Class Bulk OUT & Bulk IN
Device Management	Device Management (02-09h09-pp)	Interrupt IN
Network Control Model	NCM (02-0D-pp)	Interrupt IN + Data Class Bulk OUT & Bulk IN
Mobile Broadband Interface Model	MBIM (02-0E-pp)	Interrupt IN + Data Class Bulk OUT & Bulk IN

Issue D.

Related to: 4.1 Device Organization

Issue: Lan should also describe MBIM.

Resolution: Correction as follows.

LAN: a Communications Class interface (with subclass "Ethernet Networking Control Model" or "Networking Control Model") and a Data Class interface, connected by a Union Functional descriptor that follows the Communications Class interface. Described in [\[USBECM1.2\]](#) ~~and~~ [\[USBNCM1.0\]](#) ~~and~~ [\[USBMBIM1.0\]](#), with additional details as given in section 6.4 and 6.8 of this document.

Issue E.

Related to: 4.3 Function Models

Issue: Lan should also describe NCM.

Resolution: Correction as follows.

This document extends or reuses CDC based control models defined by [\[USBPSTN1.2\]](#), [\[USBECM1.2\]](#) ~~and~~ [\[USBNCM1.0\]](#) ~~and~~ [\[USBMBIM1.0\]](#) for specific kinds of WMC functions: