

5 IRMC SYNCHRONIZATION REQUIREMENTS

The IrMC specification [12] specifies IrMC Synchronization, which is utilized by this profile. The sections of the IrMC specification, with which this profile complies, are defined in Table 5.1.

Chapter	Name	Informative Sections	Mandatory Sections	Optional Sections	Not Applicable Sections
1	Introduction	All	-	-	-
2	IrMC Framework	2.1-3, 2.5.1, and 2.6-7	2.8.1-2, 2.8.4, and 2.9 (except 2.9.2)	2.8.3, and 2.9.2	2.4 and 2.5.2-3
3	Data Transmissions Services	3.3	3.1	-	3.2
4	OBEX Information Access and Indexing	4.1, 4.4.2, and 4.7	4.1.2, 4.2-3, 4.6, and 4.8	4.1.1 and 4.5	4.4.1
5	Synchronization	5.1 and 5.7	5.2-6 (except 5.5.3), and 5.8	5.5.3	-
6	Device Information	-	6.1-2	-	-
7	Phone Book	7.1	7.3, 7.5, 7.7.1, 7.7.3, 7.7.5, 7.8.1, and 7.8.2	7.4, 7.6, 7.7.4, 7.7.6, and 7.8.3-5	7.2 and 7.7.2
8	Calendar	8.1	8.3, 8.5, 8.6.1, 8.6.3, 8.6.5, and 8.7	8.4 and 8.6.4	8.2, and 8.6.2
9	Messaging	9.1	9.3, 9.5, 9.8.1, 9.8.3, 9.8.6, and 9.9-10	9.4, 9.6-7, 9.8.4, and 9.8.5	9.2, and 9.8.2
10	Notes	10.1	10.3, 10.5, 10.6.1, 10.6.3, 10.6.5, and 10.7	10.4 and 10.6.4	10.2, and 10.6.2

Table 5.1: IrMC Specification Dependencies

Chapter	Name	Informative Sections	Mandatory Sections*	Optional Sections	Not Applicable Sections
11	Call Control	-	-	-	ALL
12	Audio	-	-	-	ALL
13	IrMC Applications IAS Entry and Service Hint Bit	-	-	-	ALL

Table 5.1: IrMC Specification Dependencies

*. Some of these sections may not be mandatory if the applications do not support all of the applications classes

This profile does not mandate that the functionality of IrMC level 1 must be supported for the different personal data objects (vcard, vcal, vmessage and vnote), although the IrMC specification requires its support. However, it is worth mentioning that the Push command of IrMC requires the level1 functionality for a text message. Thus, the IrMC client must be able to receive this command into its Inbox and the IrMC server must be able to send this command, if support for the Sync Command feature is claimed. For Bluetooth, the object push functionality and requirements are defined in the Object Push profile.

6 OBEX

6.1 OBEX OPERATIONS USED

Table 6.1 shows the OBEX operations which are required in the Synchronization profile.

Operation no.	OBEX Operation	Ability to Send		Ability to Respond	
		IrMC Client	IrMC Server*	IrMC Client*	IrMC Server
1	Connect	M	O	M	M
2	Disconnect	M	O	M	M
3	Put	M	O	M	M
4	Get	M	X	X	M
5	Abort	M	O	M	M
6	SetPath	X	X	X	X

Table 6.1: OBEX Operations

The columns marked with '*' refer to the Sync Command feature for which support in the IrMC Server is optional.

6.2 OBEX HEADERS

Table 6.2 shows the specified OBEX headers which are required in the Synchronization profile.

Header No.	OBEX Headers	IrMC Client	IrMC Server
1	Count	X	X
2	Name	M	M
3	Type	X	X
4	Length	M	M
5	Time	O	O
6	Description	O	O
7	Target	M	M

Table 6.2: OBEX Headers

Header No.	OBEX Headers	IrMC Client	IrMC Server
8	HTTP	O	O
9	Body	M	M
10	End of Body	M	M
11	Who	M	M
12	Connection ID	M	M
13	Authenticate Challenge	M	M
14	Authenticate Response	M	M
15	Application Parameters	M	M
16	Object Class	X	X

Table 6.2: OBEX Headers

6.3 INITIALIZATION OF OBEX

OBEX authentication must be supported by the devices implementing the Synchronization profile. The initialization procedure for OBEX is defined in Section 5.3 in GOEP [2].

6.4 ESTABLISHMENT OF OBEX SESSION

The Target header must be used when the IrMC client establishes the connection (See Section 5.4 in GOEP [2]). The Target header value is 'IRMC-SYNC'.

6.5 PUSHING DATA

See Section 5.5 in GOEP [2].

6.6 PULLING DATA

See Section 5.6 in GOEP [2].

6.7 DISCONNECTION

See Section 5.7 in GOEP [2].

7 SERVICE DISCOVERY

7.1 SD SERVICE RECORDS

There are two separate services related to the Synchronization profile. The first is the actual synchronization server (i.e. IrMC server), and the second is the sync command server (i.e. IrMC Client).

7.1.1 Synchronization Service

In this case, the service is the IrMC server. The following information (i.e. service records) must be put into the SDDB.

Item	Definition:	Type/ Size:	Value:*	AttrID:	Status:	Default Value:
Service Class ID List				See [15]	M	
Service Class #0		UUID	IrMCSync		M	
Protocol Descriptor list				See [15]	M	
Protocol ID #0		UUID	L2CAP		M	
Protocol ID #1		UUID	RFCOMM		M	
Param #0	CHANNEL	Uint8	Varies		M	
Protocol ID #2		UUID	OBEX		M	
Service name	Displayable Text name	String	Varies	See [15]	O	'IrMC Synchronization'
BluetoothProfileDescriptorList	Supported profiles and versions			See [15]	O	
Profile #0		UUID	IrMCSync			IrMC-Sync
Version #0		Uint16	Varies			0x0100
Supported Data Stores List	Data stores may be phonebook, calendar, notes, and messages.	Data Element Sequence of UInt8	Data stores: 0x01 = Phonebook 0x03 = Calendar 0x05 = Notes 0x06 = Messages	See [15]	M	

Table 7.1: Synchronization Service Record

*. Values that are of the type UUID are defined in the Assigned Numbers specification [15].

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