

Infrared Data Association Specifications for Ir Mobile Communications (IrMC)

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Errata Type Classifications

Following are a list of errata to the IrMC Specification Version 1.1 dated March 01, 1999.
The points are classified according to the following scheme:

CLARIFICATION: Textual enhancement that provides a clearer explanation of a specification item without changing any behavior.

ENHANCEMENT: An addition of architectural or parametrical elements with very little impact on the device's bandwidth occupancy.

MODIFICATION: A modification of the currently specified behavior which is backwards compatible (i.e. which does not require any modification of already existing IrMC products)

CHANGE: A modification of the currently specified behavior that obsoletes some items in IrMC Version 1.1

PROBLEM: A known problem for which an erratum has yet to be proposed.

All references to "application" within this document refer to any device or software application that implements IrMC.

1. **Enhancement to Errata: Support for Pronunciation of Names etc**

Problem:

The IrMC specification builds upon the vCard standard. The vCard standard does not provide an adequate way of specifying the pronunciation of the fields within the vCard. The way a name is pronounced is vitally important in countries like Japan.

The Nokia NM207 used the angle bracket notation.

N:<jimbo>James

For more information, see <http://www.imc.org/pdi/vcard-pronunciation.html>

The IBM Workpad (Japanes version of Palm III) and the Nokia NM502I used the SOUND field. The IBM Workpad also used a vendor specific extension, which linked the Name field and its pronunciation together. The Workpad uses a similar notation for the other fields. For example, the ORG filed.

N:James

SOUND:Jimbo

N:Workpad

SOUND;X-PALM -N:Paddy

Solution:

Add a section to the IrMC specification:

When sending a vCard, the pronunciation of the fields within the vCards should specified using the SOUND field. It is recommended that the device is capable of receiving both formats. It is also okay to send the vCards with both mechanisms, although they MUST contain the same information.

N:last;first;;;

SOUND;X-IRMC-N:last_pronunciation;first_pronunciation;;;

ORG:IrDA

SOUND;X-IRMC-ORG:errderr

The CHARSET and ENCODING parameters are used in the same way as with the N field.

In the section describing the info.log for the phonebook, the following text should be added. i.e. to the section titled *Use of Pronunciation Capabilities in Information Log*.

SOUND;X-IRMC-N; ENCODING=QUOTED-PRINTABLE;CHARSET=ISO-2022-JP:=16

SOUND;X-IRMC-ORG; ENCODING=QUOTED-PRINTABLE;CHARSET=ISO-2022-JP:=43

2. Addition: New object for handling bookmark

Problem:

Recently, a lot of mobile phones can access Internet and browse web pages. But there is no standard object to handle bookmark information.

Solution:

Create a new object to handle bookmark information between IrMC devices.
Also add a new parameter BKM-TYPE property in the Device Information Object.
The following text should be added.

vBookmark

-vBookmark Overview

The Bookmarks application (e.g. Internet browsing application) provides a means for a user to manage URL information, and to exchange the URL information with the other IrMC Devices.

The level of Information Exchange must be identified by the bookmark information log. Information about the bookmark application is stored in the object names <bookmarks-information-log-object-name>. The format of that object is <bookmarks-information-log-object>

The bookmark application may store its object in any internal format that is chosen by the implementer. The type of object supported, e.g. vBookmark1.0, must be identified in the BKM-TYPE property of the Device information Object.

-Format Definition of bookmark objects

-Information Log

<bookmarks-information-log-object-name> ::= “telecom/bm/info.log”
<bookmarks-information-log-object> ::= <information-log>

-Bookmark Minimum Support

<bookmarks-minimum-support-object-name> ::= <default-char-not-lf>*<extension>
<bookmarks-minimum-support-object> ::= <common-vbookmark> | <other-object-format>

-Bookmark Access Support

<bookmarks-stream-object-name> ::= “telecom/bm”<extension>
<bookmarks-stream-object> ::= <common-vbookmark>* | <other-object-format>*

-Bookmark Index Support

<bookmarks-indexed-object-name> ::= “telecom/bm/”<digit>*<extension>
<bookmarks-indexed-object> ::= <common-vbookmark> | <other-object-format>

-Bookmark Synchronization Support

<bookmarks-unique-indexed-object-name> ::= “telecom/bm/luid/”<luid><extension>
<bookmarks-unique-indexed-object> ::= <common-vbookmark> | <other-object-format>
<bookmarks-change-counter-object-name> ::= “telecom/bm/luid/cc.log”
<bookmarks-change-counter-object> ::= <change-counter>
<bookmarks-change-log-object-name> ::= “telecom/bm/luid/”<change-counter>”.log”
<bookmarks-change-log-object> ::= <change-log-object>

-vBookmark Object Format Support

-Object Format Fields

The data structure for the bookmark object consists of the following components:

vBookmark field	Property name	Description
-----------------	---------------	-------------

Version	VERSION	Version number of the vBookmark specification used in the implementation.
URL	URL	URL Address for the bookmark.
TITLE	TITLE	The title of the bookmark.
X-IRMC-URL	X-IRMC-URL	A Compatibility text for common Internet browser application. This component MUST be wrapped in BEGIN:ENV and END:ENV. It has following values. [InternetShortcut] URL= xxxx This should be encoded by QUOTED-PRINTABLE. (xxxx is the same value with the URL property .) This component is option, but if the compatibility with Internet Shortcut file is supported, this should be implemented.

-Formal definitions as required by vBookmark 1.0

<extension> ::= “.url” | “.vbm”

If the compatibility with the Internet shortcut file is supported, “.url” should be used.

-Formal definition of vBookmark 1.0

```
<vbookmark-object> ::= {
  "BEGIN:VBKM"<CRLF>
  "VERSION:"<version><CRLF>
  "URL:"<url-value><CRLF>
  "TITLE"<vcard-properties>";"<title><CRLF>
  [<vbookmark-envelope>]
  "END:VBKM"<CRLF>
}
```

```
<vbookmark-envelope> ::= {
  "BEGIN:ENV"<CRLF>
  "X-IRMC-URL;ENCODING=QUOTED-PRINTABLE:"=
  "[InternetShortcut]" = "<CRLF>
  "URL="<url-value> <CRLF>
  "END:ENV"<CRLF>
}
```

<version> ::= "1.0"

<url-value> ::= 'URL information. It must be a valid HTTP, FTP or MAILTO URL value.'

<vcard-properties> ::= ";"<vcard-property-identifier>

<vcard-property-identifier> ::= 'Encoding, Character set and Language property parameters as defined in [vCard].'

<title> ::= <characters-not-lf><CRLF>

<characters-not-lf> ::= 'Any character in the ASCII character-set except <line-feed>.'

-Example of vBookmark objects

```
BEGIN:VBKM
VERSION:1.0
URL:http://www.irda.org
TITLE:IrDA Home Page
```

```
BEGIN:ENV
X-IRMC-URL;QUOTED-PRINTABLE:=
[InternetShortcut]=
URL=http://www.irda.org
END:ENV
END:VBKM
```

```
BEGIN:VBKM
VERSION:1.0
URL:http://www.irda.org/about/index.asp
TITLE;CHARSET=SHIFT_JIS:IrDA homepage
BEGIN:ENV
X-IRMC-URL;QUOTED-PRINTABLE:=
[InternetShortcut]=
URL=http://www.irda.org/about/index.asp
END:ENV
END:VBKM
```

-Add a new property of bookmark type to the devinfo.txt

```
BKM-TYPE-TX:1.0
BKM-TYPE-RX:1.0
```

3. Addition: New type parameter for vMessage

Problem:

The vMessage specification defines only two message type values, INET and MSG, for X-IRMC-TYPE property, though there are many types of messaging services. Some messaging services have to use the same message type value. For example, if the IrMC device supports PDC short-mail, SMS and MMS, then all of these messages will use a type value MSG. It means that these are not able to be distinguished by the vMessage.

The Nokia NM207 and NM502i are only vMessage devices on the market. They used MSG for PDC short mail service, and INET for the i-mode mail. It is recommended to use MSG for PDC short mail service, and INET for the i-mode mail for the backward compatibility.

Solution:

Add the new type value to section 9.10.6.

X-IRMC-TYPE property will contain one of the following values.

Property Value	Description	vBody
INET	e-mail	RFC822 or MIME type basis.
MSG	PDC short mail	vBody won't completely conform to the RFC 822 and will omit some or none of the RFC822 header fields.
SMS	SMS	
eSMS	Enhanced SM S	
MMS	MMS	
X-	Extensions	

If new messaging service should be made, extension value 'X-' could be used for it.