## IPD File for BlackBerry

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V0.1

Please get the latest version **from http://code.google.com/p/bbipd/** 

### **Chapter 1 General Structure**

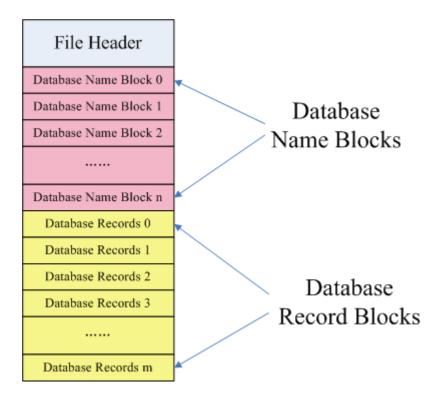
An IPD file can be considered as a database collection. When you backup data to an IPD file from RIM Blackberry Desktop Manager, data on the phone is saved into one or more databases. Each kind of data is saved to one database. For example, all SMS(Short Message Service) data is saved in Database named by SMS Messages.

The IPD file contains the following part:

The **file header**: The header of the IPD file. The signature, version data are in this part.

The **Database Name Blocks**: Several blocks containing the Database names.

The **Database Records**: Several records contain the real data.



# **Chapter 2 File Header**

File Header is a small piece of data. It has the following data:

**RIM Signature** 

LineBreak

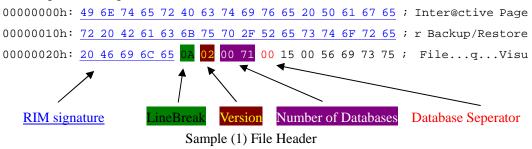
**Database Version** 

Numbers of Databases in current file

**Database Separator** 

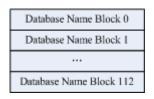
Name	Length	Offset	Description
RIM Signature	37 bytes	0x0	RIM signature: The ASCII of Inter@ctive
			Pager Backup/Restore File
LineBreak	1 byte	0x25	0x0A. Seems not used.
Database Version	1 byte	0x26	In recent versions of BlackBerry Desktop
			Manager this field is 02.
Numbers of Databases	2 byte	0x27~0x28	How many Databases are in this file
Database Separator	1 byte	0x29	0. Seems not used.

The following is an example from a real .IPD file.



**Chapter 3 Database Name Blocks** 

Database Name blocks are after the Header part and they matched with DatabaseNumber value in Header part. For example, from the Sample(1), the number of Databases is 0x 00 71. So the numbers in current database will be 7 \* 16 + 1 = 113:



Total 113 Database Name Blocks

In each block ,the following data is saved:

#### Name Length

#### Name (Including Terminating NULL)

Name	Length	Offset From start of Database Name Block	Description
Name Length	2 bytes	0x0	The length of the Database Name including NULL as <b>Little Endian</b>
Name	NA	0x2	The NAME and Terminating NULL

The following is an example from a real .IPD file.

```
00000000010h: 49 6E 74 65 72 40 63 74 69 76 65 20 50 61 67 65 ; Inter@ctive Page 00000010h: 72 20 42 61 63 6B 75 70 2F 52 65 73 74 6F 72 65 ; Packup/Restore 00000020h: 20 46 69 6C 65 0A 02 00 71 00 15 00 56 69 73 75 ; File...q...Visu 0000030h: 61 6C 20 56 6F 69 63 65 20 4D 61 69 6C 20 3F 3F ; al Voice Mail ?? 00000040h: 00 12 00 50 69 6E 79 69 6E 20 49 4D 20 6F 70 74 ; ...Pinyin IM opt 00000050h: 69 6F 6E 73 00 18 00 41 70 70 6C 69 63 61 74 69 ; ions...Applicati 00000060h: 6F 6E 20 50 65 72 6D 69 73 73 69 6F 6E 73 00 16 ; on Permissions..
```

Sample (2) Database Name Blocks

This example shows 3 Database Names:

(1): Length = 0x 00 15 = 21 (In file it is 0x 15 00 and it is saved as Little Endian. So when converting to an int, it should be 0x 00 15)

```
Name = Visual Voice Mail ??\0 (20 characters, 1 terminating NULL)
```

(2): Length = 0x 00 12 = 18

```
Name = Pinyin IM options\0 (17 characters, 1 terminating NULL)
```

(3): Length =  $0 \times 0018 = 24$ 

Name=Application Permissions\0 (23 characters, 1 terminating NULL)