HF API introduction

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**1.2** HF-ISO14443A

1.2.1 search14443Acard()

|  |  |
| --- | --- |
| Method | **byte[] search14443Acard()** |
| Introduction | Find card type 14443A |
| Parameter | Void |
| Return | Byte[]: ISO14443A card uid  Null: no card |

Note: HfError error = **new** HfError();

The followings are same .

1.2.2 authM1 ()

|  |  |
| --- | --- |
| Method | **int authM1 (int keyType, int sector, byte[] keys, byte[] uid)** |
| Introduction | Authentication card sector |
| Parameter | keyType , password type , A or B  sector number  keys , Password  uid , card number |
| Return | 0:auth Successful operation  Other: error code |

1.2.3 readM1Block()

|  |  |
| --- | --- |
| Method | **byte[]** readM1Block**(int block)** |
| Introduction | Read the block data inside of the card |
| Parameter | Block number |
| Return | Byte[]: block data  Null: read operation failed |

Note: Block number is relative to all the blocks.

1.2.3 writeM1Block()

|  |  |
| --- | --- |
| Method | **Boolean writeM1Block( int block，byte[] writeData)** |
| Introduction | Write the data to the block of the card . |
| Parameter | block number  Byte[] data, |
| Return | True ; successful operation  false operation failed , error code |

Note: The length of the data should match the capacity of the block.

**1.3** HF-ISO15693

1.3.1 search15693Card()

|  |  |
| --- | --- |
| Method | **List<ISO15693CardInfo> search15693Card()** |
| Introduction | Find the card |
| Parameter | void |
| Return | Iso15693InventoryInfo list, Iso15693InventoryInfo contain flag , dsfid and uids |

1.3.2 get15693PICC()

|  |  |
| --- | --- |
| Method | **ISO15693PICC get15693PICC(byte[] uid, int flag )** |
| Introduction | Get the card system information。 |
| Parameter | Card uid ,  flag |
| Return | ISO15693PICC  Null: get operation failed |

1.3.3 read15693Block()

|  |  |
| --- | --- |
| Method | **byte[] read15693Block(byte[] uid, int flag,int block)** |
| Introduction | Read single block data . |
| Parameter | Card uid ,  flag ,  block number |
| Return | Byte[] block data  Null: read Operation failed |

1.3.4 write15693Block()

|  |  |
| --- | --- |
| Method | **write15693Block(byte[] uid,int flag, int block, byte[] writeData)** |
| Introduction | Write single block data . |
| Parameter | Card uid ,  flag ,  block number ,  data |
| Return | true successful operation  false operation failed |