WIZARPOS International Co., Ltd.

EMV Kernel Interface

version 4.19

Revision History

version	Date	Description	who
1.00	2013-12-20	create	Michael Li
4.01 2018-10-18 Ren		Remove:	Michael Li
		emv_terminal_param_set	
		emv_terminal_param_set2	
		Add:	
		emv_terminal_param_set_tlv	
4.02	2018-10-22	Update emv_aid_param_add	Michael Li
4.03	2018-10-31	Add Appendix	Michael Li
4.04	2018-11-02	Update error code	Michael Li
4.05	2018-11-09	Add:	Michael Li
		4.16 emv_get_kernel_checksum	
		4.17 emv_get_config_checksum	
4.06	2018-12-10	Add: 4.18 emv_set_force_aac	Michael Li
4.07	2018-12-12	Add special application priority for US Common Debit AID(See 5.2:EF07, 5.5:EF06) Add Appendix B	Michael Li
4.08	2018-12-25	Add NSICCS (Indonesia) Support	Michael Li
4.09	2019-1-23	Add emv_get_candidate_list_tlv	Michael Li
4.10	2019-3-11	Add emv_set_kernel_attr	Michael Li
4.11	2019-3-21	Update emv_get_candidate_list_tlv	Michael Li
4.12 2019-4-4 Add new error code		Add new error code	Michael Li
		ERROR_APP_UNSUPPORTED 39	
4.13	2019-4-8	Add:	Michael Li
		emv_generate_pseudo_track1;	
		emv_generate_pseudo_track2	
4.14	2019-4-9	Add 9F6D, 9F6E in emv_aidparam_add	Michael Li
4.15	2019-4-24	Add DF11, DF12, DF13 ir emv_terminal_param_set_tlv	Michael Li
4.16	2019-4-26	Add 4.22 emv_offline_pin_verified	Michael Li

4.17	2019-4-26	Add 4.23 emv_log_file_clear	Michael Li
4.18	2019-5-5	Add 4.24 emv_get_offlinepin_times	Michael Li
4.19	2019-5-8	Update 4.15 Set acceptance for Bypass PIN	Michael Li

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1. IC Reader

1.1 open reader and wait card

1.2 close reader

```
/*
* @param[in] reader: reader type : 0 all of readers
* : 1 only contact reader
* : 2 only contactless reader
*/
void close_reader(int reader)
```

1.3 get current card type

1.4 get card ATR

```
/*
 * @param[out] pATR : the value of ATR
 * return value : the length of ATR
 */
int get_card_atr(unsigned char *pATR)
```

1.5 APDU command

```
/*
* @param[in] cmd :APDU command
* @param[in] cmdLength : the length of APDU command
```

2. store and set EMV data

2.1 check the existence of data for the tag

2.2 get the data for the tag

2.3 get the data for the tag list

int pTagsValueLength);

2.4 set the data for the tag

```
/*
* @param[in] tag : tag name
* @param[in] data : the value of the data
* @param[in] length: the length of the data
* return value : < 0 : Fail
* : >= 0 : the tag的长度
*/
int emv_set_tag_data(int tag, unsigned char *data, int length)
```

3. EMV transaction processing

3.1 EMVKernel initialize

```
typedef struct
    {
        // callback function for card event
        CARD EVENT OCCURED pCafdEventOccured;
        // callback function for EVM processing
        EMV PROCESS CALLBACK pEVMProcessCallback;
    }EMV INIT DATA;
    void emv_kernel_initialize(unsigned char *pInitData)
    1) typedef void (*CARD_EVENT_OCCURED) (int eventType)
       // any card event occured, this function will be revoked
       // @param[in] eventType: SMART CARD EVENT INSERT CARD = 0;
       //
                             : SMART CARD EVENT REMOVE CARD = 1;
       //
                             : SMART CARD EVENT POWERON ERROR = 9;
       //
                             :SMART CARD EVENT CONTALESS HAVE MORE CARD = 10;
    2) typedef void (*EMV_PROCESS_CALLBACK)(unsigned char *pData);
       // callback function for EVM processing, pData have 2 bytes
       // unsigned char status = pData[0];
       // unsigned char desc = pData[1];
* status:
    STATUS ERROR = 0; //ERROR
    STATUS CONTINUE = 1; // not completed, need to continue
    STATUS COMPLETION = 2; // completed
* desc
    when status = STATUS COMPLETION, desc means:
        APPROVE OFFLINE = 1; //Transaction approved Offline
        APPROVE ONLINE = 2;
                                //Transaction approved Online
```

```
DECLINE OFFLINE = 3; //Transaction declined Offline
        DECLINE ONLINE = 4; //Transaction declined Online
    when status = STATUS ERROR, desc means:
        SUCCESS = 0; //SUCCESS
        ERROR NO APP = 1; //No Supported Application Selected
        ERROR CARD BLOCKED = 2; //card return 6A81 when Application Select
        ERROR_APP_SELECT = 3; //Error when Application Select
        ERROR INIT APP = 4; //Error when Initialize Application Data
        ERROR EXPIRED CARD = 5; // Card Expired
        ERROR APP DATA = 6; //Error when Read Application Data
        ERROR DATA INVALID = 7; // have invalid data
        ERROR_DATA_AUTH = 8; // Fail in offline authentication
        ERROR GEN AC = 9; //Generate AC error when Transaction Process
        ERROR PROCESS CMD = 10; //Process Command ERROR
        ERROR SERVICE NOT ALLOWED = 11; //Service not Allowed
        ERROR PINENTERY TIMEOUT = 12; //PIN Entry timeout
        ERROR OFFLINE VERIFY = 13; //Check Offline PIN Error when Cardholder Verify
        ERROR NEED ADVICE = 14; //Communication Error with Host, but the card need
advice, halted the transaction
        ERROR USER CANCELLED = 15;
        ERROR AMOUNT OVER LIMIT = 16; // amount over limit
        ERROR AMOUNT ZERO = 17; // amount can not be zero
        ERROR_OTHER_CARD = 18; // Please try other card
        ERROR_MISSING_DATA = 19; //missing mandatory data
        ERROR_APP_BLOCKED = 20; // application is blocked
        ERROR_POWER_ON_AGAIN = 21; // Please power on card again
        ERROR_CONTACTLESS_INTERRUPT = 22; // contact card inserted when reading
contactless card record
        ERROR_MSD_NOT_SUPPORTED = 30; // Magstripe Mode not suported
        ERROR_AMOUNT_NOT_PRESENT = 31; // amount not present
        ERROR CCC = 32; // CCC Error for mastercard contactless
        ERROR_EXCHANGE_RR_DATA = 33; // Exchange relay resistance data error for
mastercard contactless
        ERROR_GET_PDOL_DATA = 34; // Get PDOL data error
        ERROR_RESTART = 35; // Please restart the transaction
        ERROR SEE PHONE = 36; // Please see phone
        ERROR_NEXT_AID = 37; // Please select next aid
        ERROR_ANOTHER_INTERFACE = 38; // Please try another interface
        ERROR_APP_UNSUPPORTED = 39; // The app in card is unsupported
    when status = STATUS CONTINUE, desc means:
        EMV CANDIDATE LIST = 1; //notify Application show Application Candidate List
        EMV APP SELECTED = 2; //Application Select Completed
```

- * EMV READ APP DATA = 3; //Read Application Data Completed
- * EMV DATA AUTH = 4; //Data Authentication Completed
- * EMV OFFLINE PIN = 5; // notify Application prompt Caldholder enter offline PIN,
- * EMV ONLINE ENC PIN = 6; //notify Application prompt Caldholder enter Online PIN
- * EMV_PIN_BYPASS_CONFIRM = 7; //notify Application confirm to Accepted PIN

Bypass or not

- * EMV_PROCESS_ONLINE = 8; //notify Application to Process Online
- * EMV ID CHECK = 9; //notify Application Check Cardholder's Identification

*/

3.2 Initialize EMV transaction data

```
void emv trans initialize(void)
```

3.3 EMV processing function

```
/*
* return value: >=0 SUCCESS, <0 Fail
*/
int emv_process_next(void)</pre>
```

4. Others functions

4.1 Get EMV Kernel version

```
/**
* @param[out] buffer: the value of emv kernel version
* @param[in] bufferLength: accepted max length of emv kernel version
* return value: the length of emv kernel verion
*/
int emv_get_version_string(unsigned char *buffer, int bufferLength)
```

4.2 Set transaction amount

4.3 Set other amount

```
/**

* @param[in] amount: '\0' as ending mark

* return value: >=0 Success; < 0 Fail
```

4.4 Set transaction type

```
int emv_set_trans_type(unsigned char transType)
#define TRANS_GOODS_SERVICE
                                  0x00
#define TRANS_CASH
                                  0x01
#define TRANS_INQUIRY
                                  0x04
#define TRANS_TRANSFER
                                  0x05
#define TRANS PAYMENT
                                  0x06
#define TRANS_ADMIN
                                  0x07
#define TRANS_CASHBACK
                                  0x09
#define TRANS_CARD_RECORD
                                  0x0A
```

4.5 set emv kernel type

4.6 Is needed advice the transaction

```
/**
* return value: 1 need advice
* 0 not need advice
*/
int emv_is_need_advice(void)
```

4.7 Is needed sign the transaction

4.8 Set the transaction force online

```
/**

* @param[in] flag: flag=1 Yes, flag = 0 No

*/
```

```
int emv_set_force_online(int flag)
```

4.9 Read transaction record from the card

4.10 Get candidate application list

```
/*
* @param[out] data : application list as "LV" format
* @param[in] dataLength : accepted max length for application list
* return value : < 0 : Fail
* : >= 0: application count
*/
int emv_get_candidate_list(uint8_t *data, int dataLength)
```

4.11 Get candidate application list with TLV Format

4.12 Set the selected index for application selection

```
/**
* @param[in] index : the selected index (started by 0)
* return value : < 0 : Fail
* :>= 0: Success
*/
int emv_set_candidate_list_result(int index)
```

4.13 Set the result of cardholder ID check

```
/* ID Type (9F62) \ ID Number(9F61)
* @param[in] result : 0: check Fail, 1:check success
* return value : < 0 : Fail
* : >= 0: Success
*/
int emv_set_id_check_result(int result)
```

4.14 Set the result of Online PIN

4.15 Set acceptance for Bypass PIN

4.16 Set the result of online authentication

4.17 Get Kernel checksum

```
/**
    @param[out] buffer: the value of emv kernel checksum
    @param[in] bufferLength: accepted max length
    return value: the length of kernel checksum
```

```
*/
int emv_get_kernel_checksum(unsigned char *buffer, int bufferLength)
```

4.18 Get Configuration checksum

```
/**
* @param[out] buffer: the value of configuration checksum
* @param[in] bufferLength: accepted max length
* return value: the length of configuration checksum
*/
int emv_get_config_checksum(unsigned char *buffer, int bufferLength)
```

4.19 Set the transaction Force AAC for first generate AC

```
/**
  * @param[in] flag: flag=1 Yes, flag = 0 No
  */
int emv_set_force_aac(int flag)
```

4.20 Get Pseudo Track1 Data for Amex & Discover Contactless in MSD Mode

```
/**
* @param[out] data: the value of track1 data
* @param[in] dataLength: accepted max length
* return value: the length of track1 data
*/
int emv_generate_pseudo_track1(byte[] data, int dataLength)
```

4.21 Get Pseudo Track2 Data for Amex & Discover Contactless in MSD Mode

```
/**
* @param[out] data: the value of track2 data
* @param[in] dataLength: accepted max length
* return value: the length of track2 data
*/
int emv_generate_pseudo_track2(byte[] data, int dataLength)
```

4.22 Is Offline PIN Verified

```
/**

* is offline verified

* @return -1 - NO(Wrong PIN)

* 1 - YES

*/
int emv_offlinepin_verified()
```

4.23 Clear EMV transaction log

```
int emv log file clear()
```

4.24 Get the times of offline-pin entry

int emv get offlinepin times()

5. EMV parameters

5.1 Clear AID info

```
/**
* return value: >=0: Success; < 0: Fail
*/
int emv_aidparam_clear(void)</pre>
```

5.2 Add AID info

int emv_aidparam_add(uint8_t *data, int dataLength)

		(byte)	
AID	ь	5-16	9F06
Application selection Indicator (ASI)	ь	1	DF01
Application version number	ь	2	9F08
TAC—Default	ь	5	DF11
TAC—Online	ь	5	DF12
TAC—Denial	ь	5	DF13
Terminal floor limit	ь	4	9F1B
Threshold value for Biased Random Selection	ь	4	DF15
Maximum Target Percentage to be used for Biased Random Selection	cn	1	DF16
Target Percentage to be used for Random Selection	cn	1	DF17
Default DDOL	ь	Var.	DF14
Ability for Online PIN	ь	1	DF18

name	Format	length (byte)	tag
Application Label	an	1-16	50
Application Preferred Name	an	1-16	9F12
Application Priority Indicator	b	1	87
Merchant Identifier	an	15	9F16
Acquirer Identifier	n	6-11	9F01
MCC	n	4	9F15
Transaction Reference Currency Code	n	3	9F3C
Transaction Reference Currency Exponent	n	1	9F3D
Default TDOL	b	Var.	DF22
Contactless Floor Limit	n	6	DF19
Contactless Limit	n	6	DF20
CVM Limit	n	6	DF21
Contactless Kernel ID (See A.1)	n	1	DF810C
C2: CVM Capability – CVM Required (See A.2)	b	1	DF8118
C2: CVM Capability – No CVM Required (See A.3)	b	1	DF8119
C2: kernel configuration (See A.4)	b	2	DF811B
C2: Mag-stripe CVM Capability – CVM Required (See A.5)	b	1	DF811E
C2: Reader Contactless transaction limit (No On-device CVM)	n	6	DF8124
C2: Reader Contactless transaction limit (On-device CVM)	n	6	DF8125
C2: Mag-stripe CVM Capability – No CVM Required (See A.6)	b	1	DF812C
C4: Contactless Reader Capabilities	b	1	9F6D
C4: Enhanced Contactless Reader Capabilities	b	4	9F6E
Is US Common Debit AID	n	1	EF07

name	Format	length (byte)	tag
0 – No; 1 - Yes			
Is apply to NSICCS (Indonesia) 0 - No; 1 - Yes	n	1	EF08

^{*} C2 - Only for Mastercard MCL

5.3 Clear CAPK info

```
/**
* return value: >=0 Success; < 0 Fail
*/
int emv_capkparam_clear(void)</pre>
```

5.4 Add CAPK info

```
/*
* @param[in] data : see form below, format is TLV
* @param[in] dataLength : the length of the data
* return value : < 0 : Fail
* : >= 0: Success
*/
```

int emv_capkparam_add(uint8_t *data, int dataLength)

Name	Format	length (byte)	tag
RID	ь	5	9F06
Certification Authority Public Key Index	ь	1	9F22
Certification Authority Public Key Expiration Date	n8	8	DF05
Certification Authority Public Key hash Algorithm Indicator	ь	1	DF06
Certification Authority Public Key Algorithm Indicator	ь	1	DF07
Certification Authority Public Key Modulus	ь	Var.	DF02
Certification Authority Public Key Exponent	ь	1 or 3	DF04
Certification Authority Public Key Checksum	ь	Var.	DF03

5.5 Set EMV terminal parameters by TLV

Supported Tag	Description
5F2A	Transaction Currency Code

^{*} C4 - Only for American Expresspay

5F36	Transaction Currency Exponent
9F16	Merchant Identification
9F1A	Terminal Country Code
9F1C	Terminal Identification
9F1E	IFD Serial Number
9F33	Terminal Capabilities
9F35	Terminal Type
9F40	Additional Terminal Capabilities
9F4E	Merchant Name and Location
9F66	TTQ first byte
DF11	TAC—Default
DF12	TAC—Online
DF13	TAC—Denial
DF19	Contactless floor limit
DF20	Contactless transaction limit
DF21	CVM limit
DF8104	Balance Read Before Gen AC (C2)
DF8105	Balance Read After Gen AC (C2)
DF811C	Max Lifetime of Torn Transaction Log Record (C2)
DF811D	Max Number of Torn Transaction Log Records (C2)
DF812D	Message Hold Time (C2)
DF8132	Minimum Relay Resistance Grace Period (C2)
DF8133	Maximum Relay Resistance Grace Period (C2)
DF8134	Terminal Expected Transmission Time For Relay Resistance C-APDU (C2)
DF8135	Terminal Expected Transmission Time For Relay Resistance R-APDU (C2)
DF8136	Relay Resistance Accuracy Threshold (C2)
DF8137	Relay Resistance Transmission Time Mismatch Threshold (C2)
EF01	Status check support: 0 – No; 1 – Support
EF02	Zero check support: 0 – No; 1 – Support
EF03	Authorization Type For American Expresspay(C4): 0-Immediate; 1-Delayed
EF04	CDCVM support: 0 – No; 1 – Support
EF05	Extended Selection: 0 – No; 1 – Support
EF06	Priority of US Common Debit AID:
	0 – The priority of US Common Debit AID is lower than Global AID;
	1 – The priority of US Common Debit AID is higher than Global AID

int emv_terminal_param_set_tlv(uint8_t *data, int dataLength)

5.6 Clear Exception File

```
/**
* return value: >=0 Success; < 0 Fail
*/
int emv_exception_file_clear(void)</pre>
```

5.7 Add Exception File

5.8 Clear Revoked Certicates

```
/**
* return value: >=0 Success; < 0 Fail
*/
int emv_revoked_cert_clear(void)</pre>
```

5.9 Add revoked Certificate

```
Typedef struct{
    unsigned char rid[5];
    unsigned char capki;
}RevokedCert
int emv revoked cert add( uint8 t *revokedCert)
```

5.10 Set EMV Kernel additional attribute

```
/* param data is less or equal 2 bytes,
Byte 1:
bit 8 Enable auto perform UPCASH for contact card.
bit 7 Force select CUP application.
bit 6 Force check app version in FDDA for CUP contactless.
bit 5 Force online with Cash & CashBack for Visa contacltess.
bit 4 Subsequent Bypass PIN entry
bit 3 Disable PayWave AUC check.
bit 2 RFU
bit 1 RFU
Byte 2:
bit 8 Enable contactless AID select.
bit 7 RFU
bit 6 RFU
bit 5 RFU
bit 4 RFU
bit 3 RFU
bit 2 RFU
bit 1 RFU
```

*/
int emv_set_kernel_attr(byte[] data, int dataLength)

Annex A: Tag List defined by MasterCard

A.1 Contactless Kernel ID

Tag: 'DF810C' Length: 1 Format: b

Description: Indicates the kernel type of contactless application

2 = Kernel 2 for MasterCard AIDs

3 = Kernel 3 for Visa AIDs

4 = Kernel 4 for American Express AIDs

5 = Kernel 5 for JCB AIDs

6 = Kernel 6 for Discover AIDs

7 = Kernel 7 for UnionPay AIDs

8 = Kernel for PURE contactless Reader

A.2 CVM Capability - CVM Required

Tag: 'DF8118' Length: 1 Format: b

Description: Indicates the CVM capability of the Terminal and Reader when the transaction amount is greater than the *Reader CVM Required Limit*.

CVM Capability – CVM Required			
Byte 1	b8	Plaintext PIN for ICC verification	
	b7 Enciphered PIN for online verification		
	b6	Signature (paper)	
	b5	Enciphered PIN for offline verification	
	b4	No CVM required	
	b3-1	Each bit RFU	

A.3 CVM Capability - No CVM Required

Tag: 'DF8119' Length: 1 Format: b

Description: Indicates the CVM capability of the Terminal and Reader when the transaction amount is less than or equal to the *Reader CVM Required Limit*.

	CVM Capability – No CVM Required								
Byte 1	b8	Plaintext PIN for ICC verification							
	b7	Enciphered PIN for online verification							
	b6	Signature (paper)							
	b5	Enciphered PIN for offline verification							
	b4 No CVM required								
	b3-1	Each bit RFU							

A.4 Kernel Configuration

Tag: 'DF811B' Length: 1 Format: b

Description: Indicates the Kernel configuration options.

Kernel Configuration								
Byte 1	b8	Mag-stripe mode contactless transactions not supported						
	b7	EMV mode contactless transactions not supported						
	b6	On device cardholder verification supported						
	b5	Relay resistance protocol supported						
	b4-1	Each bit RFU						

A.5 Mag-stripe CVM Capability - CVM Required

Tag: 'DF811E' Length: 1 Format: b

Description: Indicates the CVM capability of the Terminal/Reader in the case of a magstripe mode transaction when the *Amount, Authorized (Numeric)* is greater than the *Reader CVM Required Limit*.

	N	lag-strip	e CVM Capability – CVM Required			
Byte 1	b8-5	CVM				
			0000: NO CVM			
			0001: OBTAIN SIGNATURE			
			0010: ONLINE PIN			
			1111: N/A			
			Other values: RFU			
	b4-1	Each b	it RFU			

A.6 Mag-stripe CVM Capability - No CVM Required

Tag: 'DF812C Length: 1 Format: b

Description: Indicates the CVM capability of the Terminal/Reader in the case of a magstripe mode transaction when the *Amount, Authorized (Numeric)* is less than or equal to the *Reader CVM Required Limit*.

	Mag-stripe CVM Capability – No CVM Required								
Byte 1	b8-5	CVM							
			0000: NO CVM						
			0001: OBTAIN SIGNATURE						
			0010: ONLINE PIN						
			1111: N/A						
			Other values: RFU						
	b4-1	Each	n bit RFU						

Annex B: Tag List defined by American Expresspay

B.1 Contactless Reader Capabilities

Name	Description	Source	Format	Tag	Length	Values	Location/Usage
Contactless Reader Capabilities	A proprietary data element with bits 8, 7, and 4 only used to indicate a terminal's capability to support Kernel 4 mag-stripe or EMV contactless. This data element is OR'd with <i>Terminal Type</i> , Tag'9F35', resulting in a modified Tag '9F35', which is passed to the card when requested.	Terminal	n 2	'9F6D'	1	00 = Kernel 4 Contactless (Version 1.0 mag-stripe only) 40 = Kernel 4 (Contactless Version ≥ 2.0 mag-stripe only) 80 = Kernel 4 (Contactless Version ≥2.0 EMV mode and mag-stripe mode)	Configured in a reader compliant with Kernel 4 and passed to the card via a modified <i>Terminal Type</i> , Tag '9F35' when Tag '9F35' is present in the PDOL of the card

B.2 Enhanced Contactless Reader Capabilities

Name	Description	Source	Format	Tag	Length	Values	Location/Usage
Enhanced Contactless Reader Capabilities	Proprietary Data Element for managing Contactless transactions and includes Contactless terminal capabilities (static) and contactless Mobile transaction (dynamic data) around CVM	Terminal	b 32	'9F6E'	4		Returned to the Card in the GET PROCESSING OPTIONS in response to PDOL.

Table 4-4: Enhanced Contactless Reader Capabilities – EMV Tag '9F6E'

Teri	Terminal Capabilities Byte 1									
b8	b7	b6	b5	b4	b3	b2	b1	Meaning		
X								1 = Contact mode supported		
	1							1 = Contactless Mag-Stripe Mode supported		
		0						0 = Contactless EMV full online mode not supported (full online mode is a legacy feature and is no longer supported)		
			X					1 = Contactless EMV partial online mode supported		
				1				1 = Contactless Mobile Supported		
					0			RFU		
						0		RFU		
							0	RFU		
Teri	mina	CVN	/ Cap	abili	ties E	Byte 2	2			
b8	b7	b6	b5	b4	b3	b2	b1	Meaning		
1								1 = Mobile CVM supported		
	х							1 = Online PIN supported		
		Х						1 = Signature		
			Х					1 = Plaintext Offline PIN		
				0				RFU		
					0			RFU		
						0		RFU		
							0	RFU		
Trai	nsact	ion (Capal	bilitie	s By	te 3				
b8	b7	b6	b5	b4	b3	b2	b1	Meaning		
Х								1 = Reader is offline only		
	Х							1 = CVM Required		
		0						RFU		
			0					RFU		
				0				RFU		
					0			RFU		
						0		RFU		
							0	RFU		

Trai	Transaction Capabilities Byte 4										
b8	b7	b6	b5	b4	b3	b2	b1	Meaning			
0								RFU			
	0							RFU			
		0						RFU			
			0					RFU			
				0				RFU			
					0			RFU			
						0		RFU			
							0	RFU			

Annex C: Self-defined Tag List

Tag	Name	Format	Length	Description
EF01	Status check support	n	1	[Terminal Parameter] 0 – No; 1 – Support
EF02	Zero check support	n	1	[Terminal Parameter] 0 – No; 1 – Support
EF03	Authorization Type For	n	1	[Terminal Parameter] 0-Immediate; 1-Delayed
	American Expresspay(C4)			
EF04	CDCVM support	n	1	[Terminal Parameter] 0 – No; 1 – Support
EF05	Extended Selection	n	1	[Terminal Parameter] 0 – No; 1 – Support
EF06	Priority of US Common	n	1	[Terminal Parameter]
	Debit AID			0 - The priority of US Common Debit AID is
				lower than Global AID;
				1 - The priority of US Common Debit AID is
				higher than Global AID
EF07	Is US Common Debit AID	n	1	[AID Parameter] 0 – No; 1 – Yes
EF08	Is apply to NSICCS	n	1	[AID Parameter] 0 - No; 1 - Yes, used for Bank
	(Indonesia)			Indonesia