



CB TEST CARDS & CB DEVELOPMENT CARDS

INSTRUCTIONS FOR USE

Version : 1.7 Date : 08/02/2024

SUIVI DES MODIFICATIONS

Version	Date	Modifications
0.0.1	03/11/2020	Reproduction of document 4.4 BC
1.1	29/04/2021	Editorial update of key indexes
1.2	06/01/2022	Annual Review
1.3	17/03/2022	Added table SAE response codes
1.4	25/04/2022	Details on card limits (p.6) and information on minimum transaction (p.7)
1.5	27/01/2023	Delete various sets and modify V18 for V19 on standard sets
1.6	09/01/2024	Update with support wise fly 23 (previously solvo fly)
1.7	08/02/2024	Update with the product CP12r_V/MC_20

ABREVIATIONS

- CB Cartes Bancaires
- GCB Groupement des Cartes Bancaires
- SAT Test Authorization Server
- SICB Système d'Information Cartes Bancaires
- STET Transaction Authorization and Clearing Routing Network

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1 INTRODUCTION

CB offers cards to allow the development, integration and maintenance of electronic payment applications on acceptance system.

There are two types of cards:

- **Test cards** that can be used for installation, integration, application, maintenance activities in real environment,
- **Development cards** that can be used for development, testing, application, maintenance activities in a laboratory environment..



Test cards picture

These cards can operate in contact mode and in contactless mode. When a card works in both modes, it is called a '**dual interface**' card. They make it possible to carry out payment transactions.

This document describes the implementation principles as well as the catalogue of these cards.

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2 IMPLEMENTATION

In order for test and development CB cards to be accepted on an acceptance system, it is necessary to:

- that this system is loaded with, at lis, a CB application that works in contact mode and / or contactless (depending on the type of transaction to be made) and initialized via an acquiring system.
- that the application(s) loaded are initialized with a merchant contract that allows the use of these cards and that can be:
 - " Real ": issued by your bank
 - "CB test " : proposed by Elitt
- that the acceptance system is connected to an authorization server (test or development) depending on the type of card used.

2.1 CB test cards

Test CB cards are accepted on acceptance systems installed at a merchant or on a maintenance platform and connected to an acquiring system (either an acquiring bank or a CB test acquirer). They make it possible to carry out 'offline' or 'online' transactions (connection to an authorization server).

Only the **CB Test Authorization Server (SAT)** is authorized to issue authorizations. All CB test cards are declared on the CB test authorization server. This server makes it possible to process authorization requests issued by these cards by performing risk management (map settings control, flow control; opposition list) and cryptographic calculations (ARQC verification, ARPC calculation).

It is configured for each card with a ceiling of 50 euros over 7 sliding days in contact and contactless.

WARNING: if the ceiling of 50 € is reached on one day, the user of the card will have to wait 7 working days for the meters to reset..

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Example of how a test card works in term of amount:

Day	Transaction amount	Transaction Type	Cumulative amount authorization server	Server Decision
D	18€	Online	18€	Transaction accepted
D+1	4€	Online	22€	Transaction accepted
D+4	14€	Online	36€	Transaction accepted
D+7	15€	Online	51€ (36€)	Transaction declined
D+7	6€	Online	42€	Transaction accepted
D+8	-	-	24€*	-

* (Montant J+7) – (Montant J)

Transactions can also be made without an authorization request (offline transaction). These transactions can be carried out within the limits of the defined amount and number valued in each profile.

Two types of merchant contract allow you to accept test CB cards:

- **The test merchant contract , for sale on Elitt E-Shop**
- **The merchant contract of an acquiring bank**

Only these merchant contracts can be used because they are associated with an acquirer center connected to the banking network (STET) which allows the routing of the transactions carried out with the CB test cards to the CB test authorization server.

A set of data transmitted to the various acquiring centers via the SICB makes it possible to initialize the acceptance systems to accept CB test cards. These include:

- The BIN : 501767 (this BIN must be defined as a test BIN but it must also be authorized by the purchaser to whom the acceptance system is connected),
- The public value of CA bins and associated parameters.

Minimum de transaction :

- If the merchant contract is set to CB 5.5, then the minimum transaction accepted is €0.15 per card
- If the merchant contract is set to FRV6, then the minimum transaction accepted is €0.01 per card (verification possible on table #40 which manages the minimum amounts entered).

Notes :

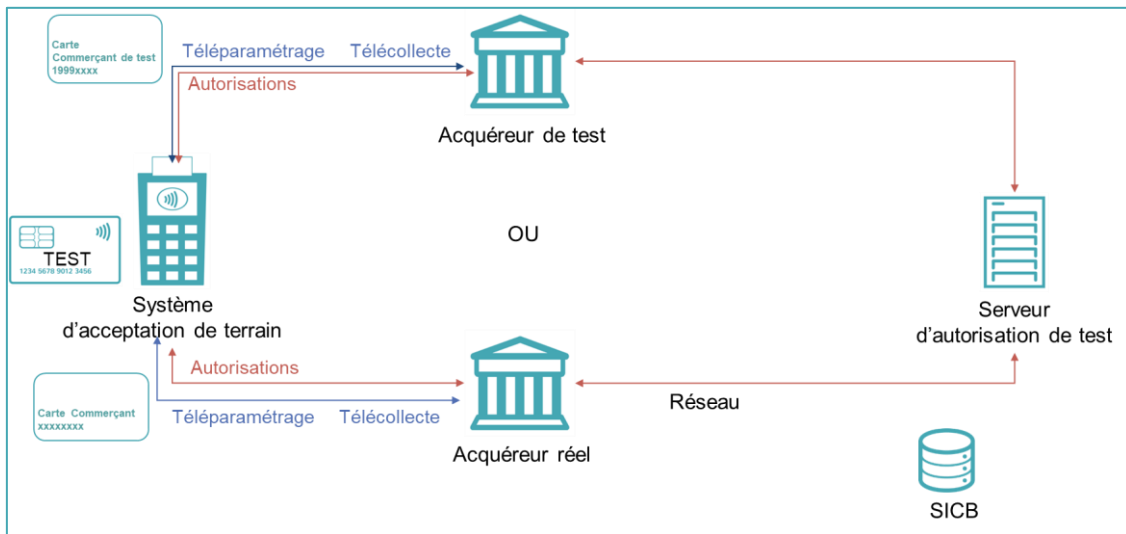
- The initialization of the CB application with the CB test merchant contract is carried out using a test merchant card (P03 card). This card will make it possible to carry out credit or cancellation transactions (see Notice merchant contracts test).
- Transactions carried out in this configuration are cancelled during compensation by the remote collection centers (acquirer).
- Some types of CB payment applications, such as ATM payment, require switching from PRODUCTION mode to TEST mode to allow acceptance of CB Test cards. Failover arrangements are the responsibility of the acceptance solution provider.

**IT IS IMPERATIVE TO MAKE A TRANSACTION IN CONTACT MODE
BEFORE USING THE CARD IN CONTACTLESS MODE**

The acceptance system will generate an authorization request for the first transaction made with this transaction. The contactless application will be activated only on a positive response from the Test Authorization Server, following the authorization request .

Based on the VISA application, the transition to CVN18 requires the authorization server to manage the CSU "Card Status Update" and in particular the 2-bit 8-2-1 byte. Indeed, at the output of customization, the contactless interface is activated (DF30 ='03'), but the available funds (VLP Available Funds) are at 0.

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Implementation diagram of Test "CB" cards

2.2 CB Development Cards

The implementation of a test authorization simulator and server is the responsibility of the developer board user. He must ensure that the value of the keys, necessary for the proper functioning of the "CB" Development cards, are well informed and he knows the chosen policy :

- Declaration of cards
- Risk management (cap, card opposition)
- Card application blocking / unblocking

ELITT provides the document VALUES OF THE DEVELOPMENT KEYS in which are specified the values of the keys necessary for the operation of these cards (calculation of transaction cryptogram, offline authentication).

For Development CB cards to be accepted by an acceptance system, the CB payment application must be initialized. This initialization is done by loading data via a simulator or a test acquiring system. These include:

- The BIN : 507100,
- The public value of the CA key pairs and associated parameters provided by ELITT in the document VALUES OF DEVELOPMENT KEYS.

Development CB cards are not accepted on field acceptance systems. Online transactions are not routed through the interbank authorisation network to ELITT's test server.

The tables and diagram below describe the contexts of use

"CB" "Contact Only" Development Cards ::

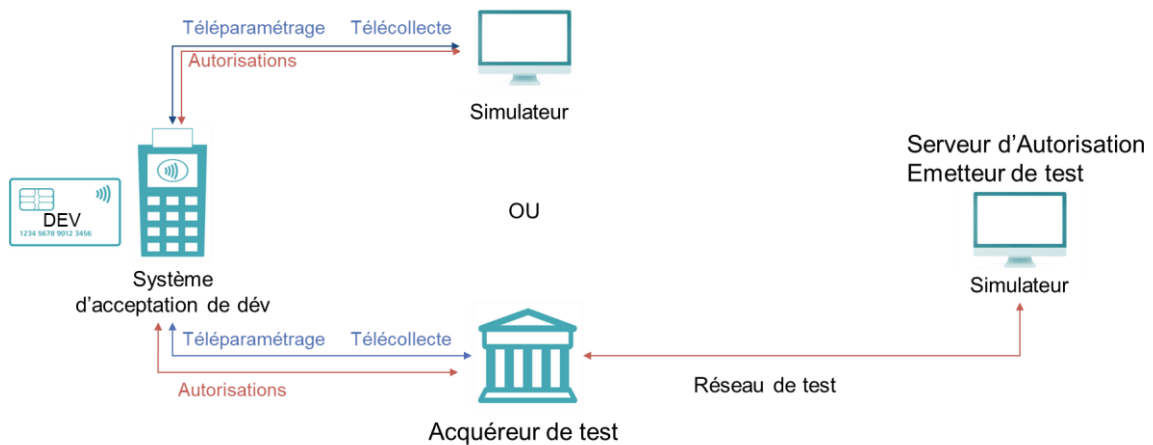
	Development Environment (with test network))	Development Environment (with simulator)
« Offline » Payment	Possible*	Possible*
« Online » Payment	Possible*	Possible*
Withdrawal	Possible*	Possible*

* Possible : Transactions can be finalized.

"CB" "DUAL Interface" Development Cards

	Development Environment (with test network))	Development Environment (with simulator)
« Offline » Payment	Possible*	Possible*
« Online » Payment	Possible*	Possible*
Withdrawal	Impossible	Impossible

* Possible : Transactions can be finalized.



Implementation diagram of the "CB" Development Cards

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Note: certain types of "CB" payment application, such as payment on ATM, require the transition from "PRODUCTION" mode to "TEST" mode to allow the acceptance of Development "CB" cards in the event that the remote parameterization performed from a simulator or a test acquiring system has defined the BIN used for Development "CB" cards as a test BIN. Failover arrangements are the responsibility of the acceptance solution provider.

**IT IS IMPERATIVE TO MAKE A TRANSACTION IN CONTACT MODE
BEFORE USING THE CARD IN CONTACTLESS MODE**

2.3 CVN 18 - Evolution of cards based on Visa

2.3.1 Activating the contactless app

Based on the VISA application, the transition to CVN18 requires the authorization server to manage the CSU "Card Status Update" and in particular the 2-bit 8-2-1 byte. Indeed, at the end of customization, the contactless interface is activated (DF30 ='03'), but the available funds (VLP Available Funds) are at 0.

2.3.2 Management of "card" counters

The authorization server must be updated by integrating CSU management rules to manage your new Vis based cards with CVN 18.

CVN 18 used on the Visa Application Base (_V) was introduced with the ST11 V18. However, the management of this new CVN involves having to update the response rules of the authorization server to integrate new data. " CSU " used to reset counters .

2.3.2.1 CSU

⇒ Authentication Data [Reminder : Issuer Authentication Data; conveyed in CBAE field 55-0091].

IAD pour CVN 18	
1-4	ARPC cryptogram
5-8	CSU (Card Status Update)
9-10	Proprietary Authentication Data

⇒ Rules implemented on SAE:

Item	Valorisation CSU	Emplacement
Declined transaction – With or without PIN entry ⇒ Unmodified offline and online counters	'00 00 00 00	Byte 2 bit 2-1 = '00'
Accepted transaction - PIN entered and checked "online" or "offline" ⇒ "Offline" and "online " counters reset	'00 82 00 00	Byte 2 bit 8 = 1 Byte 2 bit 2-1 = '10'
Transaction accepted – No code entry confidential ⇒ Unmodified offline and online counters	'00 80 00 00	Byte 2 bit 8 = 1 Byte 2 bit 2-1 = '00'

2.3.2.2 Management of the ARPC

The ARPC will be overloaded with offset 1 to 4. Below is an explanatory table of the evolution of the IAD format to be taken into account between the IAD of CVN 10 and the IAD of CVN18:

Avec CVN 10	
1-8	ARPC cryptogram
9-10	Response code
Avec CVN 18	
1-4	ARPC cryptogram
5-8	CSU (Card Status Update)
9-10	Proprietary Authentication Data

2.3.2.3 Identification of cards based on CVN 18 Vis

The offset 7 valued at 4 or at 5 indicates the new generations of card. The explanatory table on the management of our BIN 507100 below will allow you to easily integrate your card type detection rules on your authorization server

6	2	1	1	5	1					
BIN	Digit Incremental	Identification Base applicative	Type de lot	Plage	Clé de Luhn	Type	Version de clé	CVN		
507100	41	5	VIS 1.5.4 (contact)	"0"	Lot 11 - Standard Dual	00001 - 99999	X	ST11Dd V 18	01	18
			VCPS 2.1.2 (Dual)	"1-9"	Ruf	00001 - 99999	X	Ruf	-	-

3 GENERAL PRESENTATION OF CARD SETS

Preamble: the general presentation of the card sets is identical to that described in the catalog with an add-on on the 3DES and RSA keys.

3.1 Main characteristics of a set

Each set is composed of 10 cards whose main characteristics are gathered in the table below with an identifier structured as follows: TL | VBA | (D) | x | BA | yy | VL with

TL = Set Type	ST	Standard set - all cards in the set are identical
	CP	Standard set - all cards in the set are identical with kernel CPACE
VBA= Application Base Version	11	M/Chip Advance 1.2.1 – Visa 1.5.4/VCPS 2.1.2
	12	M/Chip Advance 1.2.3 – Visa 1.6.3/VCPS 2.2.4
D = Technologie Dual Interface	D	Optional – Dual interface (contact and contactless) CP12r are dual !
x = Card Type	r	Test card
	d	Development card
BA= Base Applicative	V	Visa
	MC	MasterCard
yy = rank	01 à 10	Card number in a set
VL = Version Lot	19	19 for sets ST
	20	20 for sets CP
RSA Keys		AC key: 1984 bits Issuer key : 1952 exponent 3 Card key : 1632 bits exponent 3

3.2 List of sets

3.2.1 Standard sets of CB test cards on MasterCard application-based

Identifier Set	Type of Set	Application Base Version	Techno.	Card Type	Application Base	Card Rank	Version Set	Support Product	Characteristics
ST11DrMC	Standard	M/Chip Advance 1.2.1	Dual interface	Test	MasterCard	-	19	Wise fly 23	APPLICATIONS CB and MCW - PAYMENT/WITHDRAWAL

3.2.2 Standard sets of CB test cards on Visa application based

Identifier Set	Type of Set	Application Base Version	Techno.	Card Type	Application Base	Card Rank	Version Set	Support Product	Characteristics
ST11DrV	Standard	VIS 1.5.4 et VCPS 2.1.2	Dual interface	Test	Visa	-	19	Wise fly 23	APPLICATIONS CB and VISA - PAYMENT/WITHDRAWAL

3.2.3 Standard sets of CB test cards with CPACE kernel and MasterCard application based

Identifier Set	Type of Set	Application Base Version	Techno.	Card Type	Application Base	Card Rank	Version Set	Support Product	Characteristics
CP12rMC	Standard	M/Chip Advance 1.2.3	Dual interface	Test	MasterCard	-	20	Wise fly 23	APPLICATIONS CB and MCW PAYMENT/WITHDRAWAL

3.2.4 Standard sets of CB test cards with CPACE kernel and Visa application based

Identifier Set	Type of Set	Application Base Version	Techno.	Card Type	Application Base	Card Rank	Version Set	Support Product	Characteristics
CP12rV	Standard	VIS 1.6.3 et VCPS 2.2.4	Dual interface	Test	Visa	-	20	Wise fly 23	APPLICATIONS CB and VISA - PAYMENT/WITHDRAWAL

3.2.5 Standard sets of CB development cards on MasterCard application-based

Identifier Set	Type of Set	Application Base Version	Techno.	Card Type	Applicati on Base	Card Rank	Version Set	Support Product	Characteristics
ST11DdMC	Standard	M/Chip Advance 1.2.1	Dual interface	Dev.	MasterCard	-	19	Wise fly 23	APPLICATIONS CB and MCW - PAYMENT/WITHDRAWAL

-

3.2.6 Standard sets of CB development cards on Visa application based

Identifier Set	Type of Set	Application Base Version	Techno.	Card Type	Applicati on Base	Card Rank	Version Set	Support Product	Characteristics
ST11DdV	Standard	VIS 1.5.4 et VCPS 2.1.2	Dual interface	Dev.	Visa	-	19	Wise fly 23	APPLICATIONS CB and VISA - PAYMENT/WITHDRAWAL

3.2.7 Structure of the PAN

The PAN is structured as follows: BIN | Identifier | Card sequential number| Luhn key with:

BIN	507100 for development cards
	501767 for test cards
Identifier	4 digits attributed by CB
Card sequential number	5 digits assigned by the CB test cards service, the last four of which correspond to the confidential code

3.2.8 Code PIN

The PIN code corresponds to the four to last digits of the card number as described below:

- 5017 67XX XXXP PPPL
- 5071 00XX XXXP PPPL

Examples :

- 5017 6700 0015 2363 ; the PIN code is 5236
- 5071 0000 0000 0995 : the PIN code is 0099

3.2.9 Features of the magnetic stripe

It is a three-track banner with high coercivity, ISO1 and ISO2 encoding.

- The service code is valued at 901 except for 'CB only ', CB and Visa cards , CB and MC with systematic authorization (921), ' CB only' withdrawal card (903).
- The PVV data is calculated with index key 9 for development cards and 8 for test cards .
- CVV and CVC data are not present (there is no CVV in the chip)
- The discretionary data field of the ISO2 track is supplemented by 0s so that the total length encoded is 40 characters.
- The data 'Cardholder name', 'PAN', 'Card expiration date' must correspond to the custom data in the CB application.

3.2.10 Keys

3.2.10.1 3DES Keys

- Toutes les clés 3DES ont une longueur de 128 bits.
- les clés des cartes CB de test sont à valeur secrète. Elles ne sont pas diffusées et ne sont présentes que sur le serveur d'autorisation de test CB.
- les clés des cartes CB de développement sont à valeur connue.
- All 3DES keys are 128 bits long.
- The keys of the CB test cards are of secret value. They are not broadcast and are only present on the CB test authorization server.
- The values of the keys for the development CB cards are known.

List of keys :

- Transaction Certificate Calculation Key (TC/AAC/ARQC/ARPC)
- Secure messaging key for privacy
- Secure messaging key for integrity
- ICC Dynamic Number (IDN) Calculation Key

The algorithms used for the calculation of cryptogram depend on the application base:

- VIS : CVN = '12'h (hexadecimal value)
- MC : CVN = '10'h (hexadecimal value)
- CP : CVN='A5'h (hexadecimal value)

3.2.10.2 Track Keys

Calculation key of the online PIN verification value (by SAT or simulator / Test sending server) customized on the track

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3.2.10.3 RSA Keys

List of keys :

- Certificate Authority (CA) Key
- Transmitter key
- Card Bi-key

Set Type	Card	Application	Certificate Authority (CA) Key Pair			Issuer Key Pair		Card Key Pair	
			Index	Length	Exponent	Length	Exponent	Length	Exponent
Standard CP		CB/VISA/MC	See below	1984	3	1952	3	1632	3

*PIN encryption

Type de carte	test			development		
Application	CB	Visa	MC	CB	Visa	MC
Index CA Key pair 1984 bits	08			89	92	93

The values of the development keys are provided by ELITT in a specific document.

3.2.10.4 Listing SAE Response Error Codes

Error code	Meaning	Error message	Case of the appearance of this code
05	EMV: CVR and PIN Control	« Do not honor»	The tester entered 3 wrong PINs on the card in "offline" mode»
	TVR control		The tester makes a transaction with a card put in opposition
	ARQC Verification (CA)		Field 55-9F26 (Cryptogram App) is not consistent
14	Control cardholder number	" Invalid card number "	The PAN is not compliant
15	BIN/Test Card ID Control	"No such issuer"	The tester uses a bank card other than a CB test card
30	CVR control	"Format Error "	Field 55-9F10 (IAD) is not present in the map for example.
	ISO track 1, 2 ou équivalente		ISO track 2 (chip or track origin) is not compliant
	AID Verification		Unjustified absence of AID (field 55) in the map
34	Counterfeit card control	« Suspected fraud»	The tester uses a fake card whose PAN does not belong to the range defined on the server.
40	Scope of processed transactions	« Requested function not supported»	The transaction presented is outside the scope of application 0100 (Payment & withdrawal) or 0400 (recovery)
	Rejection of tracked contactless cards		Contactless transactions made with a contactless track card are refused by the Server.
51	Solvency check	«Not sufficient funds»	The tester has reached the payment ceiling of 50€ over 7 rolling days
54	Check expiration date	«expired card»	The tester uses a card whose validity date is expired

55	False code threshold exceeded	« Incorrect PIN»	The tester entered 3 wrong PINs on the card and the server rejects the transaction
56	Positive algorithm	« No card record»	The card number is not present in the file called "positive" = not declared on the server
57	Card type/transaction type consistency	« Transaction not permitted to cardholder»	The tester makes a payment transaction with a specific withdrawal card for example
	Track fallback		A Payment or Withdrawal transaction made using a GCB card in track mode is refused by the Server
	Additional Invoice (PLBS)		The "File number" field (field 47-24) must be present and filled in at a value in accordance with the CBAE protocol.
59	Cohérence date de fin de validité	« Suspected fraud»	The tester uses a payment card with an expired validity date
61	Solvency check	« Exceeds withdrawal amount limit»	The tester has reached the payment ceiling of 50€ over 7 rolling days

3.3 Detailed description of the sets

3.3.1 ST11DrMC et ST11DdMC set

ST11DxMC set- APPLICATIONS CB and MCW - PAYMENT/WITHDRAWAL- DUAL INTERFACE - MCHIP ADVANCE									
Tag	Name	Lg (hexa)	Access (hexa)	Value (Hexa)		Contact / Contactless	Signed	Shared	Notes
				Domestique	International				
	AC Master Key (Contact)	10				C		C	Test card : version clé 03 dev card: version clé 00
	AC Master Key (Contactless)	10				SC		C	Test card : version clé 0 Dev card : version clé 00
	AC Session Key Counter (Contact)	02		0000		C		C	
	AC Session Key Counter (Contactless)	02		0000		SC		C	
DF3A	AC Session Key Counter Limit (Contact)	02	PUT DATA	FFFF		C		C	
DF34	AC Session Key Counter Limit (Contactless)	02	PUT DATA	FFFF		SC		C	
DF11	Accumulator 1 Control (Contact)	01	GET DATA PUT DATA	C0		C		C	
DF12	Accumulator 1 Control (Contactless)	01	GET DATA PUT DATA	C0		SC		C	
C9	Accumulator 1 Currency Code	02	GET DATA PUT DATA	0978				C	
D1	Accumulator 1 Currency Conversion Table	19	GET DATA PUT DATA	0978000000 0978000000 0978000000 0978000000 0978000000				C	
DF28	Accumulator 1 CVR Dependency Data (contact)	03	GET DATA PUT DATA	000000		C		C	
DF29	Accumulator 1 CVR Dependency Data (contactless)	03	GET DATA PUT DATA	000000		SC		C	
CA	Accumulator 1 Lower Limit	06	GET DATA PUT DATA	000000160000	000000160000			S	

CB	Accumulator 1 Upper Limit	06	GET DATA PUT DATA	000000200000	000000200000			S	
DF14	Accumulator 2 Control (Contact)	01	GET DATA PUT DATA	00		C		C	
DF15	Accumulator 2 Control (Contactless)	01	GET DATA PUT DATA	C0		SC		C	
DF16	Accumulator 2 Currency Code	02	GET DATA PUT DATA	0978				C	
DF17	Accumulator 2 Currency Conversion Table	19	GET DATA PUT DATA	0978000000 0978000000 0978000000 0978000000 0978000000				C	
DF2A	Accumulator 2 CVR Dependency Data (contact)	03	GET DATA PUT DATA	000000		C		C	
DF2B	Accumulator 2 CVR Dependency Data (contactless)	03	GET DATA PUT DATA	000000		SC		C	
DF18	Accumulator 2 Lower Limit	06	GET DATA PUT DATA	000000014000	000000014000			S	
DF19	Accumulator 2 Upper Limit	06	GET DATA PUT DATA	000000014000	000000014000			S	
D5	Application Control (Contact)	06	GET DATA PUT DATA	0C 00 80 00 41 02	0C 00 80 00 41 02	C		S	
D7	Application Control (Contactless)	06	GET DATA PUT DATA	00 00 80 10 40 00	00 00 80 10 40 00	SC		S	
4F	ADF Name	07	SELECT AID	A0000000421010	A000000041010			S	
5F25	Application Effective Date	03	READ RECORD UPDATE RECORD				S	C	valued by the customizer
5F24	Application Expiration Date	03	READ RECORD				S	C	valued by the customizer
94	Application File Locator (AFL) (Contact)	var.	GPO GET DATA PUT DATA			C		valued by the customizer	valorisé par le personnalisateur

D9	Application File Locator (AFL) (Contactless)	var.	GPO GET DATA PUT DATA			SC		S	valued by the customizer
82	Application Interchange Profile (AIP) (Contact)	02	GPO PUT DATA	3900	3900	C	S	S	
D8	Application Interchange Profile (AIP) (Contactless)	02	GPO PUT DATA	1980	1980	SC	S	S	
50	Application label	10	SELECT READ RECORD	CB	MASTERCARD			S	
9F7E	Applicaton Life Cycle Data	48	GET DATA					C	valued by the customizer
50	Application Label	10	SELECT	CB	MASTERCARD			S	
5A	Application Primary Account Number (PAN)	10	READ RECORD				S	C	Test card : 501767 4 25 0 xxxxx l Dev card : 507100 4 25 0 xxxxx l
5F34	Application Primary Account Number (PAN) Sequence number	01	READ RECORD	00	00		S	S	
87	Application Priority Indicator	01	SELECT READ RECORD	01	02			S	Response to SELECT PPSE/AID
9F0A	Application Selection Registered Proprietary Data	08	SELECT	0001050100000000				C	Debit Product
9F36	Application Transaction Counter (ATC)	02	GPO GET DATA GEN AC	0000				C	
	Application Transaction Counter limit	02		FFFF				C	
9F07	Application Usage Control (AUC)	02	READ RECORD UPDATE RECORD	FF00	FF00		S	S	
9F08	Application Version Number (AVN)	02	READ RECORD	0003	0002			S	
C3	Card Issuer Action Code (Contact) - Decline	03	GET DATA PUT DATA	11 00 00	11 00 00	C		S	

C4	Card Issuer Action Code (Contact) - Default	03	GET DATA PUT DATA	A8 5C 50	A8 5C 50	C		S	
C5	Card Issuer Action Code (Contact) - Online	03	GET DATA PUT DATA	A8 FF F0	A8 FF F0	C		S	
CF	Card Issuer Action Code (Contactless) - Decline	03	GET DATA PUT DATA	08 F4 F8	08 F4 F8	SC		S	
CD	Card Issuer Action Code (Contactless) - Default	03	GET DATA PUT DATA	00 00 00	00 00 00	SC		S	
CE	Card Issuer Action Code (Contactless) - Online	03	GET DATA PUT DATA	00 00 00	00 00 00	SC		S	
5F20	Cardholder name	04	READ RECORD	20202020				C	
8E	Cardholder Verification Method (CVM) list	0E 0A - 12 0E	READ RECORD UPDATE RECORD	00000000 00000000 4201 0103 0203 (contact) 00000000 00000000 1F03 (sans contact)	00000000 00000000 4201 4103 5E03 4203 1F03 (contact) 00000000 00000000 5E03 4203 1F03 (sans contact)		S	S	
DF62	CBLC	30	GET DATA						valued by the customizer
8C	CDOL1	27	READ RECORD	9F0206 9F0306 9F1A02 9505 5F2A02 9A03 9C01 9F3704 9F3501 9F4502 9F4C08 9F3403 9F2103 9F7C14			S	C	
C7	CDOL1 related data length	01	GET DATA PUT DATA	42				C	
8D	CDOL2	12	READ RECORD	910A 8A02 9505 9F3704 9F4C08 9F0206 9F0306			S	C	
8F	Certificate Authority Public key index	01	READ RECORD					S	See RSA keys
DF1A	Counter 1 Control (Contact)	01	GET DATA PUT DATA	C0		C		C	
DF1B	Counter 1 Control (Contactless)	01	GET DATA PUT DATA	C0		SC		C	
DF2C	Counter 1 CVR Dependency Data (Contact)	03	GET DATA PUT DATA	000000		C		C	

DF2D	Counter 1 CVR Dependency Data (Contactless)	03	GET DATA PUT DATA	000000		SC		C	
9F14	Counter 1 Lower Limit	01	GET DATA PUT DATA	0A	0A			S	
9F23	Counter 1 Upper Limit	01	GET DATA PUT DATA	0F	0F			S	
DF1D	Counter 2 Control (Contact)	01	GET DATA PUT DATA	00		C		C	
DF1E	Counter 2 Control (Contactless)	01	GET DATA PUT DATA	C0		SC		C	
DF2E	Counter 2 CVR Dependency Data (Contact)	01	GET DATA PUT DATA	000000		C		C	
DF2F	Counter 2 CVR Dependency Data (Contactless)	01	GET DATA PUT DATA	000000		SC		C	
DF1F	Counter 2 Lower Limit	01	GET DATA PUT DATA	0A	0A			S	
DF21	Counter 2 Upper Limit	01	GET DATA PUT DATA	0A	0A			S	
C8	CRM Country Code	02	GET DATA PUT DATA	0250				C	
	Cryptogram Version Number (CVN)	01	GEN AC	10				C	
DF3C	CVR Issuer Discretionary Data (Contact)	01	GET DATA PUT DATA	00	00	C		S	
DF3D	CVR Issuer Discretionary Daa (Contactless)	01	GET DATA PUT DATA	00	00	SC		S	
	Derivation Key Index	01	GEN AC PUT DATA	00	00			S	
84	DF Name	0E	SELECT PSE	31 50 41 59 2E 53 59 53 2E 44 44 46 30 31				C	"1PAY.SYS.DDF01"
		0E	SELECT PPSE	32 50 41 59 2E 53 59 53 2E 44 44 46 30 31				C	"2PAY.SYS.DDF01"
		var.	SELECT AID				S	S	

9F49	Dynamic Data Authentication DOL (DDOL)	03	READ RECORD	9F3704		C		C	
BF0C	File Control Information (FCI) Issuer Discretionary Data	5	SELECT AID	9F4D020B19 (contact) DF610104 (sans contact)	9F4D020B19 (contact)			C	
	Integrated Circuit Card (ICC) Dynamic Number Master Key (Contact)	10				C		C	Test cards : version clé 03 Dev cards : version clé 00
	Integrated Circuit Card (ICC) Dynamic Number Master Key (Contactless)	10				SC		C	Test cards : version clé 03 Dev cards : version clé 00
	Integrated Circuit Card (ICC) Private Key	var.						C	valued by the customizer – see keys values
9F46	Integrated Circuit Card (ICC) Public Key Certificate	var.	READ RECORD					C	valued by the customizer
9F47	Integrated Circuit Card (ICC) Public Key Exponent	01 03	READ RECORD					C	valued by the customizer – see keys values
9F48	Integrated Circuit Card (ICC) Public Key Remainder	var.	READ RECORD					C	valued by the customizer – see keys values
DF3E	Interface Identifier	01							
DF30	Interface Enabling Switch	01	GET DATA PUT DATA	03				C	
9F0D	Issuer Action Code - Default	05	READ RECORD UPDATE RECORD	BC 60 24 80 00 (contact) 00 00 00 00 00 (sans contact)	BC 60 24 80 00 (contact) 00 00 00 00 00 (sans contact)		S	S	
9F0E	Issuer Action Code - Denial	05	READ RECORD UPDATE RECORD	00 10 D8 00 00 (contact) B4 70 E0 00 00 (sans contact)	00 10 D8 00 00 (contact) B4 70 E0 00 00 (sans contact)		S	S	
9F0F	Issuer Action Code - Online	05	READ RECORD UPDATE	BC 60 24 98 00 (contact) 00 00 00 00 00 (sans contact)	BC 60 24 98 00 (contact) 00 00 00 00 00 (sans contact)		S	S	

			RECORD					
5F28	Issuer Country Code	02	READ RECORD	0250		S	C	
90	Issuer Public Key Certificate	var.	READ RECORD					Provided by CB – see keys values
9F32	Issuer Public Key Exponent	01	READ RECORD					Provided by CB – see keys values
92	Issuer Public Key Remainder	var.	READ RECORD					Provided by CB – see keys values
9F2A	Kernel Identifier	01	SELECT PPSE	02	SC		C	
	Key Derivation Index (Contact)			00	C		C	
	key Derivation Index (Contactless)	01		00	SC		C	
5F2D	Language Preference	04	SELECT PSE/AID	6672 656E 6465 6573			C	fr en de es
9F4D	Log Entry	02	SELECT AID	0B19			C	
9F4F	Log Format	1F	GET DATA	9F0206 9F2701 9F1A02 5F2A02 9A03 9C01 9F5206 9F3602 DF3E01 9F7C14 9F2103			C	
DF24	MTA currency code	02	GET DATA PUT DATA	0978	C		C	
DF26	MTA NoCVM (contactless)	06	GET DATA PUT DATA	000000003000	000000002000	SC	S	
9F17	Personal Identification Number (PIN) try counter	01	GET DATA PIN CHANGE UNBLOCK CSU	03			C	
C6	Personal Identification Number (PIN) Try Limit	01	CSU	03			C	
	Previous Transaction History	01		00			C	

DF3F	Read Record Filter (contact)	20	GET DATA PUT DATA		C		C	
DF40	Read Record Filter (contactless)	20	GET DATA PUT DATA		SC		C	
	Reference PIN	08					C	
88	SFI of the Directory Elementary File	01	SELECT PSE				C	
	SMI Master Key (contact)	10			C		C	Test cards : version clé 03 Dev cards : version clé 00
	SMI Master Key (contactless)	10					C	Test cards : version clé 03 Dev cards : version clé 00
	SMI Session Key Counter (contact)	02		0000	C		C	
	SMI Session Key Counter (contactless)	02		0000	SC		C	
DF32	SMI Session Key counter limit (contact)	02		FFFF	C		C	
DF33	SMI Session Key counter limit (contactless)	02		FFFF	SC		C	
9F4A	Static authentication tag list	01	READ RECORD	82		S	S	
9F1F	Track1 Discretionary Data	var.	READ RECORD		C		C	Available in contact only
57	Track2 Equivalent Data	39	READ RECORD GPO UPDATE RECORD			S	C	service Code = 901
DF61	Type de base applicative	01	SELECT AID	04			S	Available in answer to SELECT AID CB contactless

3.3.2 ST11DrV et ST11DdV sets

ST11Dr_V et ST11Dd_V sets - APPLICATIONS CB and VISA - PAYMENT/WITHDRAWAL - DUAL INTERFACE - VIS 1.5.4/VCPS 2.1.2									
Tag	Name	Lg (hexa)	Access	Value (Hexa)		Contact / Contactless	Signed	Shared	Notes
				Domestique	International				
4F	ADF Name	07	SELECT AID	A0000000421010	A0000000031010			S	
BF5B/DF01	Application capabilities	02	GET DATA PUT DATA	40 00				C	
9F51	Application currency code	02	GET DATA	0978				C	
9F52	Application Default Action (ADA)	06	GET DATA PUT DATA	E3 38 38 00 0F 00	E3 38 38 00 0F 00			S	
5F25	Application Effective Date	03	READ RECORD UPDATE RECORD			C	S	C	valued by the customizer
5F24	Application Expiration Date	03	READ RECORD				S	C	valued by the customizer
94	Application File Locator (AFL)	var.	GPO PUT DATA					S	valued by the customizer
82	Application Interchange Profile (AIP)	02	GPO PUT DATA	3900 (contact) 2000 (sans contact)	3900 (contact) 2000 (sans contact)		S	S	
50	Application Label	10	SELECT READ RECORD	CB	VISA DEBIT			S	
5A	Application Primary Account Number (PAN)	10 01	READ RECORD				S	C	Test cards : 501767 4 15 0 xxxxx l Dev cards : 507100 4 15 0 xxxxx l
5F34	Application Primary Account Number (PAN) Sequence number	10	READ RECORD	00	00		S	S	
87	Application Priority Indicator	01	SELECT READ RECORD	01	02			S	in response to SELECT PPSE/AID

9F0A	Application Selection Registered Proprietary Data	08	SELECT	0001050100000000				C	Debit Product
9F36	Application Transaction Counter (ATC)	02	GEN AC	0000				C	
	Application Transaction Counter limit	02		FFFF				C	
9F07	Application Usage Control (AUC)	02	READ RECORD UPDATE RECORD	FF00	FF00		S	S	
9F08	Application Version Number (AVN)	02	READ RECORD	0003	0096	C		S	
9F68	Card Additional Process (CAP)	04	GET DATA PUT DATA	4A200000	4A201000			S	
9F69	Card Authentication Related data	07	READ RECORD	0100000000000000	0100000000000000	SC		S	
9F6C	Card Transaction Qualifier CTQ)	02	GPO GET DATA PUT DATA	1000	1000	SC		S	
8C	CDOL1	1E	READ RECORD	9F0206 9F0306 9F4E14 9F1A02 9505 5F2A02 9A03 9F2103 9C01 9F3704 9F3403		C	S	C	
8D	CDOL2	1F	READ RECORD	8A02 9108 9F0206 9F0306 9F1A02 9F4E14 9505 5F2A02 9A03 9C01 9F3704 9F2103		C	S	C	
5F20	Cardholder name	04	READ RECORD	20202020		-		C	
8E	Cardholder Verification Method (CVM) list	0E 12	READ RECORD UPDATE RECORD	00000000 00000000 4201 0103 0203	00000000 00000000 4201 0103 0203 1E03 1F00	C	S	S	
DF62	CBLC	30	GET DATA					C	valued by the customizer
8F	Certificate Authority Public key index	01	READ RECORD					S	see RSA keys

BF56/DF11	Consecutive Transaction Counter (CTC)	01	GET DATA PUT DATA CSU	00				C	
BF56/DF21	Consecutive Transaction Counter Limit (CTCL)	01	GET DATA PUT DATA	0A	0A			S	
BF56/DF31	Consecutive Transaction Counter Upper Limit (CTCUL)	01	GET DATA PUT DATA	FF	FF			S	
BF57/DF11	Consecutive Transaction counter International (CTCI)	01	GET DATA PUT DATA CSU		00			S	
BF57/DF21	Consecutive Transaction counter International Limit (CTCIL)	01	GET DATA PUT DATA		0A			S	
BF57/DF31	Consecutive Transaction counter International Upper Limit (CTCIUL)	01	GET DATA PUT DATA		FF			S	
	Cryptogram Version Number (CVN)	01	GEN AC	12				C	
BF58/DF11	Cumulative Total Transaction Amount	06	GEN AC PUT DATA	000000000000				C	
BF58/DF21	Cumulative Total Transaction Amount Limit	06	GET DATA PUT DATA	000000160000	000000160000			S	
BF58/DF31	Cumulative Total Transaction Amount Upper Limit	06	GET DATA PUT DATA	000000200000	000000200000			S	
	Derivation Key Index	01	GEN AC PUT DATA	00	00			S	
84	DF Name	0E	SELECT PSE	31 50 41 59 2E 53 59 53 2E 44 44 46 30 31					"1PAY.SYS.DDF01"
		0E	SELECT PPSE	32 50 41 59 2E 53 59 53 2E 44 44 46 30 31					"2PAY.SYS.DDF01"
		var.	SELECT AID					S	
9F49	Dynamic Data Authentication DOL (DDOL)	03	READ RECORD	9F3704		C		C	

BF0C	File Control Information (FCI) Issuer Discretionary Data	var.	SELECT AID	9F4D020B19 (contact) DF610103 (sans contact)	9F4D020B19 (contact)			S	
9F6E	Form Factor Indicator (FFI)	04	PUT DATA UPDATE RECORD GET DATA GPO READ RECORD	20 00 00 00		SC		C	
	Integrated Circuit Card (ICC) for the generation of the ICC Dynamic Number (MKIDN)	10				C		C	Test card : key version 03 Dev cards : key version 00
	Integrated Circuit Card (ICC) Private key	var.						C	generated by the customizer – see keys values
9F46	Integrated Circuit Card (ICC) Public Key Certificate	var.	READ RECORD					C	computed by the customizer – see keys values
9F47	Integrated Circuit Card (ICC) Public Key Exponent	var.	READ RECORD	3				C	generated by the customizer – see keys values
9F48	Integrated Circuit Card (ICC) Public Key Remainder	var.	READ RECORD					C	generated by the customizer – see keys values
DF30	Interrupteur d'interface	01	GET DATA PUT DATA	03				C	
9D0D	Issuer Action Code - Default	05	READ RECORD UPDATE RECORD	BC 60 24 80 00	BC 60 24 80 00	C	S	S	
9F0E	Issuer Action Code - Denial	05	READ RECORD UPDATE RECORD	00 10 D8 00 00	00 10 D8 00 00	C	S	S	

9F0F	Issuer Action Code - Online	0	READ RECORD UPDATE RECORD	BC 60 24 98 00	BC 60 24 98 00	C	S	S	
9F56	Issuer Authentication Indicator	01	GET DATA PUT DATA	80		C		C	
5F28	Issuer Country Code	02	READ RECORD	0250			S	C	
9F57	Issuer Country Code	02	GET DATA	0250				C	
90	Issuer Public Key Certificate	var.	READ RECORD					S	Provided by CB see keys values
9F32	Issuer Public Key Exponent	01	READ RECORD					C	Provided by CB see keys values
92	Issuer Public Key Remainder	var.	READ RECORD					C	Provided by CB see keys values
9F2A	Kernel Identifier	01	SELECT PPSE	03		SC		C	
5F2D	Language Preference	08	SELECT PSE/AID	6672 656E 6465 6573				C	fr en de es
9F13	Last Online ATC Register (LATC)	02	GET DATA	0000				C	
9F4D	Log Entry	02	SELECT AID	0B19		C		C	
9F4F	Log Format	1F	GET DATA	9F0206 9F2701 9F1A02 5F2A02 9A03 9C01 DF5204 9F3602 DF3E01 9F4E14 9F2103				C	
9F17	Personal Identification Number (PIN) try counter	01	GET DATA PIN CHANGE UNBLOCK CSU	03		C		C	
	Personal Identification Number (PIN) Try Limit	01	CSU	03		C		C	

9F38	Processing Options Data object list (PDOL)	18	SELECT	9F6604 9F0206 9F0306 9F1A02 9505 5F2A02 9A03 9C01 9F3704 9F4E14 9F2103	9F6604 9F0206 9F0306 9F1A02 9505 5F2A02 9A03 9C01 9F3704 9F4E14 9F2103	SC		S	
	Reference PIN	08				C		C	
88	SFI of the Directory Elementary File	01	SELECT PSE			C			
9F4A	Static authentication tag list	01	READ RECORD		82			S	C
9F1F	Track1 Discretionary Data	var.	READ RECORD						C
57	Track2 Equivalent Data	39	READ RECORD GPO UPDATE RECORD			C		S	C
DF61	Type de base applicative	01	SELECT AID	03		SC			S
	Unique DEA Key	10							
	Unique Message Authentication Code (MAC) DEA key	10				C			
BF55/DF51	VLP available funds	06	GPO GET DATA	000000000000	000000000000				S
BF55/DF71	VLP funds limit	06	GET DATA PUT DATA	000000014000	000000014000				S
BF55/DF41	VLP Single Transaction Limit	06	GET DATA PUT DATA	000000003000	000000002000				S

3.3.3 CP12rV et CP12rMC sets: CPACE part

LOT CP12 DxCB-MC - APPLICATIONS CB - PAIEMENT/RETRAIT - DUAL INTERFACE - CPACE										
Tag	Name	Spec.	Lg. (hexa)	Format	Presence	Access	Signed	Shared	Value (Hexa)	Comment
									CB	
84	DF Name	EMV	0E	b	M	SELECT PSE		Y	31 50 41 59 2E 53 59 53 2E 44 44 46 30 31	"1PAY.SYS.DDF01" (PSE)
			0E	b	M	SELECT PPSE		Y	32 50 41 59 2E 53 59 53 2E 44 44 46 30 31	"2PAY.SYS.DDF01" (PPSE)
9F6E	Third Party Data	CSPACE	var.	b	M	READ RECORD	Y	N		Set by vendor
4F	ADF Name	EMV	07	b	M	SELECT AID		N	A0000000421010	ADF Name CB
6F	FCI Template - PSE	EMV	15	b	M	SELECT PSE		Y	840E.....	
									84 0E 315041592E5359532E44444463031	"1PAY.SYS.DDF01"
									A5 ...	FCI Proprietary Template
									88 01 01	SFI of the Directory Elementary File
									5F2D 08 6672 656E 6465 6573	fr en de es
6F	FCI Template ADF CB Contact	25			M			N	8407...	
									84 07 A0000000421010	ADF Name CB
									A5 ...	FCI Proprietary Template
									50 02 4342	CB (Application Label)
									87 01 01	Application Priority Indicator
									BF0C 10	FCI Issuer Discretionary Data
									9F4D 02 xx19	The SFI set by the vendor is to be provided to ELITT
									9F0A 08 0001050100000000	Application Selection Registered Proprietary Data: Debit Product
5A	Application Primary Account Number (PAN)	EMV	var.	cn	M	READ RECORD	Y	Y	Value to be provided by ELITT	
5F34	Application Primary Account Number (PAN) Sequence number	EMV	01	n2	M	READ RECORD	Y	N	00	
5F20	Cardholder name	EMV	04	ans	M	READ RECORD		Y	2A2F	*/

	Reference PIN	EMV	var.	b	M	GET DATA PUT DATA			
9F17	PIN Try Counter	EMV	01	b	M	GET DATA CHANGE UNBLOCK CSU		Y	03
C6	PIN Try Limit	EMV	1	b	M	GET DATA PUT DATA		Y	03
5F30	Service code	EMV	02	n3	M	READ RECORD	Y		901
9F1F	Track1 Discretionary Data	EMV	var.	b	M	READ RECORD		Y	set by vendor
57	Track2 Equivalent Data	EMV	var.	b	M	READ RECORD	Y	Y	Value according to the PAN provided by ELITT set by vendor
9F7E	Application Life Cycle Data	CPA	30	b	M	GET DATA	N	N	First byte = 01 set by vendor
C8	Application Issuer Life Cycle Data	CPA	20	b	M		N		set by vendor
DF62	CB life cycle (CBLC)								
9F05	Application Discretionary Data	EMV	var.	b	O	READ RECORD	Y	Y	not used
5F25	Application Effective Date	EMV	03	n6	M	READ RECORD UPDATE RECORD	Y	Y	set by vendor
5F24	Application Expiration Date	EMV	03	n6	M	READ RECORD	Y	Y	set by vendor
9F08	Application Version Number	EMV	2	b	M	READ RECORD	N	N	0003
9F07	Application Usage Control	EMV	02	b	M	READ RECORD	N	Y	FF00
9F42	Application Currency Code	EMV	02	n3	O	READ RECORD	N	N	not used
9F44	Application Currency Exponent	EMV	01	n1	O	READ RECORD	N	N	not used
	Master Key for AC	CPA	10	b	M			N	
	Master Key for SMC	CPA	10	b	M			N	
	Master Key for SMI	CPA	10	b	M			N	
	AC Session Key Counter	CPA	02	b	M			N	0000
	SMI Session Key Counter	CPA	02	b	M			N	0000
	PIN Decipherments Error Counter	CPA	02	b	M			N	0000

C5	Security Limits	CPA	06	b	M	PUT DATA		N		
	AC Session Key Counter Limit	CPA	02	b	M	PUT DATA		N	FFFF	
	SMI Session Key Counter Limit	CPA	02	b	M	PUT DATA		N	FFFF	
	PIN Decipherments Error Counter Limit	CPA	02	b	M	PUT DATA		N	FFFF	
	Additional Master Key for AC	CPACE	10	b	O					not used
	Additional Master Key for SMC	CPACE	10	b	O					not used
	Additional Master Key for SMI	CPACE	10	b	O					not used
	Additional AC Session Key Counter	CPACE	02	b	O					not used
	Additional SMI Session Key Counter	CPACE	02	b	O					not used
	Integrated Circuit Card (ICC) Private key	EMV	var.	b	M			Y		set by vendor
9F46	Integrated Circuit Card (ICC) Public Key Certificate	EMV	var.	b	M	READ RECORD		Y		set by vendor
9F47	Integrated Circuit Card (ICC) Public Key Exponent	EMV	var.	b	M	READ RECORD		Y		set by vendor
9F48	Integrated Circuit Card (ICC) Public Key Remainder	EMV	var.	b	O	READ RECORD		Y		set by vendor
	Integrated Circuit Card (ICC) PIN Encipherment Private key	EMV	var.	b	M			Y		not used
9F2D	Integrated Circuit Card (ICC) PIN Encipherment Public Key Certificate	EMV	Ni	b	O			Y		not used
9F2E	Integrated Circuit Card (ICC) PIN Encipherment Public Key Exponent	EMV	1 oe 3	b	O			Y		not used
9F2F	Integrated Circuit Card (ICC) PIN Encipherment Public Key Remainder	EMV	var.	b	O			Y		not used

8F	Certificate Authority Public key index	EMV	01	b	M	READ RECORD		N		see Key page
5F28	Issuer Country Code	EMV	02	b	M	READ RECORD	Y	N		set by vendor
90	Issuer Public Key Certificate	EMV	var.	b	M	READ RECORD		Y		see Key page
9F32	Issuer Public Key Exponent	EMV	1 or 3	b	M	READ RECORD		Y		see Key page
92	Issuer Public Key Remainder	EMV	var.	b	O	READ RECORD		Y		see Key page
9F4A	Static Data Authentication tag list	EMV	01	b	M		Y	Y	82	
9F36	Application Transaction Counter (ATC)	EMV	02	b	M	GET DATA GEN AC		N	0000	
D6	AID-Interface File Entry	CPACE	02	b	M	GET DATA			xx02	The SFI set by the vendor is to be provided to ELITT
	AID-Interface Entry	CPACE	59	b	M	READ RECORD		N	8407....	see below
									84 07 A0000000421010	ADF Name CB
									91 01 01	Interface Descriptor - Contact
									A51A...	see FCI Proprietary Template contact
									E103...	GPO Parameters Reference Template (contact) see below
									C1 01 01	Contact GPO Parameters 1
									84 07 A0000000421010	ADF Name CB
									91 01 02	Interface Descripto - Contactless
									A519...	See FCI Proprietary Template contactless
									E103...	GPO Parameters Reference Template (contactless) see below
									C1 01 02	Contactless GPO Parameters 2
BF3E <DF01>	GPO Parameters 1	CPA	02	b	M			N	0001	No PDOL - PSD1 for contact profile
BF3E <DF02>	GPO Parameters 2	CPA	02	b	M			N	0002	No PDOL - PSD2 for contactless profile
C1	Application Control	CPACE	04	b	M	GET DATA PUT DATA		N	F70C5E15	

C7	Previous Transaction History (PTH)	CPA	02	b				N	0800	
8C	CDOL1	EMV	21	b	M	READ RECORD	Y	N	9F0206 9F0306 9F1A02 9505 5F2A02 9A03 9C01 9F3704 9F3501 9F3403 9F2103 9F4E14	
8D	CDOL2	EMV	0F	b	M	READ RECORD	Y	N	9108 8A02 9505 9F3704 9F0206 9F0306	
9F49	DDOL	EMV	03	b	O	READ RECORD		Y	9F3704	Used with DDA
A5 <9F38>	PDOL	EMV	var.	b	O	SELECT		N		not used
BF40	Log Data Tables	CPA	var.	b	M			N		
9F4D	Log Entry	EMV	02	b	M	SELECT		N	xx19	The SFI set by the vendor is to be provided to ELITT
9F4F	Log Format	EMV	1B	b	M	GET DATA		N	9F0206 5F2A02 9A03 9F5205 9F3602 9F2701 CA01 9F2103 9F4E14 D501	
BF40 <DF01>	First GEN AC Log Data Table	CPA	var.	b	O	GET DATA		N		not used
BF40 <DF03>	First GEN AC Unchanging Log Data Table	CPA	var.	b	O	GET DATA		N	0222032514	9F4E et 9F21 logués
BF40 <DF05>	ILDOL	CPACE	02	b	M	GET DATA PUT DATA		N	D501	Environment in use
9F10	Issuer Application Data	EMV	20	b	M	GEN AC		N	0FA5xx...	see below
DO	Issuer Static Data	CPACE	var.	b	O			N		Not used
9F52	CVR	CPACE	5	b	M			N		
BF33 <DF0x>	Additional Check Table x	CPA	var.	b	O			N		not used
BF38 <DF01>	Currency Conversion Table x	CPA	07	b	M			N	09780840008282	Euro dollar

E0 <DF01>	Contactless Command Access	CPACE	02	b	M	GET DATA PUT DATA		N	00	
D4	Contactless Control - Application	CPACE	01	b	M	GET DATA PUT DATA		N	82	
D3	Contactless Control - Card	CPACE	01	b	M	GET DATA PUT DATA		N	80	State of contactless access to card
E0 <DF02>	Contactless READ RECORD Access	CPACE	var.	b	O	GET DATA PUT DATA		N		not used
E0 <DF03>	Contactless GET DATA Access	CPACE	var.	b	O	GET DATA PUT DATA		N		not used
	Device Estimated Transmission Time for Relay Resistance R-APDU	CPACE	02	b	O			N		not used
	RRP Configuration Data Set	CPACE	06	b	O			N		not used
D9	RRP Configuration File Entry	CPACE	02	b	O	GET DATA		N		not used
	RRP Counter	CPACE	01	b	O			N		not used
	RRP Transaction Data set	CPACE	14	b	O			N		not used
C2	Profile Selection File Entry	CPA	02	b	M	GET DATA PUT DATA		N	xx02	The SFI set by the vendor is to be provided to ELITT
				b					xx	SFI containing Profile Selection File - set by the vendor
									01	1 profile selection entry
	Profile Selection Entries	CPA	09	b	M	READ RECORD		N	08010102FF02000201	
BF3F <DF01>	Profile Control 1 (contact)	CPACE	0A	b	M	GET DATA PUT DATA		N	11112121FF1F0000FFF0	
BF3F <DF02>	Profile Control 1 (contactless)	CPACE	0A	b	M	GET DATA PUT DATA		N	1223333FF2F0000FFF0	
BF3B <DF01>	Issuer Options Profile Control 1 (contact)	CPACE	0A	b	M			N	98381Fa5000010000000	
BF3B <DF02>	Issuer Options Profile Control 1 (contactless)	CPACE	0A	b	M			N	98381FA5020010000000	
BF41 <DF01>	AIP/AFL Entry 1 (contact)	CPACE	var.	b	M		Y	N	3900 + AFL	The AFL set by the vendor is to be provided to ELITT
BF41 <DF02>	AIP/AFL Entry 2 (contactless)	CPACE	var.	b	M		Y	N	1980 + AFL	The AFL set by the vendor is to be provided to ELITT
BF30 <DF01>	Accumulator 1	CPA	06	n12	M	GET DATA PUT DATA CSU		N	000000000000	Accumulates offline contact and contactless transactions

BF30 <DF11>	Accumulator 1 Limit	CPA	0C	n24	M	GET DATA PUT DATA		N	000000030000 000000040000	Contains Accumulator 1 Lower Limit 0 and Accumulator 1 Upper Limit 0
BF32 <DF01>	Accumulator 1 Control	CPACE	04	b	M	GET DATA PUT DATA		N	0978C000	
BF30 <DF02>	Accumulator 2	CPA	06	n12	M	GET DATA PUT DATA CSU		N	000000000000	Accumulates offline and online contactless transactions
BF30 <DF12>	Accumulator 2 Limit	CPA	0C	n24	M	GET DATA PUT DATA		N	000000015000 000000015000	Contains Accumulator 2 Lower Limit 0 and Accumulator 2 Upper Limit 0
BF32 <DF02>	Accumulator 2 Control	CPACE	04	b	M	GET DATA PUT DATA		N	0978C080	
BF31 <DF01>	Accumulator Profile Control 1	CPACE	03	b	M	GET DATA PUT DATA		N	E00100	Accumulator 1 Control for contact Profile
BF31 <DF02>	Accumulator Profile Control 2	CPACE	03	b	M	GET DATA PUT DATA		N	600100	Accumulator 2 Control for contact Profile
BF31 <DF03>	Accumulator Profile Control 3	CPACE	03	b	M	GET DATA PUT DATA		N	A00100	Accumulator 1/2 Control for contactless Profile
BF35 <DF01>	Counter 1	CPA	01	b	M	GET DATA		N	00	Counts contact and contactless offline transactions
BF35 <DF11>	Counter 1 Limits	CPA	02	b	M	GET DATA PUT DATA		N	0A 0A	
BF37 <DF01>	Counter 1 Control	CPACE	02	b	M	GET DATA PUT DATA		N	A0 00	
BF35 <DF02>	Counter 2	CPA	01	b	M	GET DATA		N	00	Counts contactless offline and online transactions
BF35 <DF12>	Counter 2 Limits	CPA	02	b	M	GET DATA PUT DATA		N	05 05	
BF37 <DF02>	Counter 2 Control	CPACE	02	b	M	GET DATA PUT DATA		N	A0 80	
BF35 <DF03>	Counter 3	CPA	01	b	M	GET DATA		N	00	Counts contact transaction when transaction currency is not supported
BF35 <DF13>	Counter 3 Limits	CPA	02	b	M	GET DATA PUT DATA		N	00 00	
BF37 <DF03>	Counter 3 Control	CPACE	02	b	M	GET DATA PUT DATA		N	B0 80	
BF36 <DF01>	Counter Profile Control 1	CPACE	02	b	M	GET DATA PUT DATA		N	0600	Counter 1/3 Control for contact profile
BF36 <DF02>	Counter Profile Control 2	CPACE	02	b	M	GET DATA PUT DATA		N	06 00	Counter 2 control for contact profile
BF36 <DF03>	Counter Profile Control 3	CPACE	02	b	M	GET DATA PUT DATA		N	0600	Counter 1/2/3 control for contactless profile
BF42 <DF0x>	Cyclic accumulator x	CPA	06	n	O			N		not used

BF3A <DF0x>	Cyclic accumulator x control	CPA	03	b	O	GET DATA PUT DATA		N		not used
BF3D <DF01>	MTA Profile Control 1 (contact)	CPA	04	b	M	GET DATA PUT DATA		N	09781100	
BF3C <DF01>	Limits Entry 1	CPA	06	n12		GET DATA PUT DATA		N	000000010000	
BF3D <DF02>	MTA Profile Control 2 (contactless)	CPA	04	b		GET DATA PUT DATA		N	09782100	
BF3C <DF02>	Limits Entry 2	CPA	06	n12		GET DATA PUT DATA		N	000000005000	Limits Entry 2
C3	Number of Days Offline Limit	CPACE	02	n4	O	GET DATA PUT DATA		N	9999	Not used
BF34 <DF01>	Card Issuer Actions Codes Entry 1 (contact)	CPACE	12	b	M	GET DATA PUT DATA		N	000000000000 474000FF0000 7F70FFFF1000	Contact
	Denial								00 00 00 00 00 00	
	Online								7F 70 FF FF 00 00	
	Default								47 40 00 FF 00 00	
BF34 <DF02>	Card Issuer Actions Codes Entry 2 (contactless)	CPACE	12	b	M	GET DATA PUT DATA		N	000000000000 000000010000 4400FFFF1000	Contactless
	Denial								00 00 00 00 00 00	
	Online								44 00 FF FF 10 00	
	Default								00 00 00 01 00 00	
8E	Cardholder Verification Method (CVM) list (contact)	EMV	0E 0A - 12 0E	b	M	READ RECORD UPDATE RECORD	Y	N	00000000 00000000 4201 4403 0103 0203	
8E	Cardholder Verification Method (CVM) list (contactless)	EMV	0E 0A - 12 0E	b	M	READ RECORD UPDATE RECORD	Y	N	00000000 00000000 0203 1F03	
9F0D	Issuer Action Code - Default (contact)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	BC 40 FC 80 00	
9F0E	Issuer Action Code - Denial (contact)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	00 10 00 00 00	

9F0F	Issuer Action Code - Online (contact)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	BC 60 FC 80 00
9F0D	Issuer Action Code - Default (contactless)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	B4 60 64 00 00
9F0E	Issuer Action Code - Denial (Contactless)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	00 10 00 00 00
9F0F	Issuer Action Code - Online (contactless)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	B4 60 64 00 00

3.3.4 CP12rV set: VISA part

CP12 RxCB-V APPLICATIONS VISA - PAYMENT/WITHDRAWAL- DUAL INTERFACE - VIS 1.5.4/VCPCS 2.2										
Tag	Name	Spec.	Lg. (hexa)	Format	Presence	Access	Signed	Shared	Value (Hexa)	Comment
9F6E	Form Factor Indicator (FFI)	VCPS	04	b	M	PUT DATA UPDATE RECORD GET DATA GPO READ RECORD		N	20 70 00 00	
4F	ADF Name							N	A0000000031010	ADF Name VISA
70	Payment System Directory Entry Record	EMV	26	b	M	READ RECORD		Y	6110...	Directory Entry 1
									4F 07 A0000000421010	ADF Name AID CB
									50 02 4342	Application Label AID CB
									87 01 01	Priority Indicator
									73 0D	
									9F0A 08 0001050100000000	
									6112...	Directory Entry 2
									4F 07 A0000000031010	ADF Name VISA
									50 04 56495341	Application Label AID VISA
									87 01 02	Priority Indicator
									73 0D	
									9F0A 08 0001050100000000	
6F	FCI Template PPSE	EMV	59	b	M	SELECT		Y	840E...	
									84 0E 325041592E5359532E4444463031	"2PAY.SYS.DDF01"
									A5 47	FCI Proprietary Template
									BF0C 4F	FCI Issuer Discretionary Data

									61 1F	Directory Entry 1
									4F 07 A0000000421010	ADF Name CB
									50 02 4342	CB
									87 01 01	Application Priority Indicator
									9F2A 01 2E	Kernel CSPACE
									9F0A 08 0001050100000000	
									61 1F	Directory Entry 2
									4F 07 A0000000421010	ADF Name CB
									50 02 4342	CB (Application Label)
									87 01 01	Application Priority Indicator
									9F2A 01 02	Kernel MasterCard
									9F0A 08 0001050100000000	
									61 21	Directory Entry 3
									4F 07 A0000000031010	ADF Name VISA
									50 04 56495341	VISA (Application Label)
									87 01 02	Application Priority Indicator
									9F2A 01 03	Kernel VISA
									9F0A 08 0001050100000000	
6F	FCI Template ADF CB Contactless	EMV	24	b	M			N	840E...	
									84 07 A0000000421010	ADF Name CB
									A5 19	FCI Proprietary Template
									50 02 4342	CB
									87 01 01	Application Priority Indicator
									BF0C 0F	FCI Issuer Discretionary Data

									9F0A 08 0001050100000000	Application Selection Registered Proprietary Data: Debit Product
									DF61 01 04	Base applicative sans contact Visa
6F	FCI Template ADF VISA (contact)	EMV	27	b	M			N	8407...	
									84 07 A0000000031010	ADF Name VISA
									A5 1E	FCI Proprietary Template
									50 04 56495341	VISA (Application Label)
									87 01 02	Application Priority Indicator
									BF0C 0B	FCI Issuer Discretionary Data
									9F4D 02 xx19	xx SFI Log Entry - Maximum number of records 25
									9F0A 08 0001050100000000	Application Selection Registered Proprietary Data: Debit Product
6F	FCI Template ADF VISA (contactless)	EMV	22	b	M			N	8407...	
									84 07 A0000000031010	ADF Name VISA
									A5 17	FCI Proprietary Template
									50 04 56495341	VISA (Application Label)
									87 01 02	Application Priority Indicator
9F38	Processing Options Data object list (PDOL)	EMV	18	b	M			N	9F6604 9F0206 9F0306 9F1A02 9505 5F2A02 9A03 9C01 9F3704 9F4E14 9F2103	
									BF0C 0B	FCI Issuer Discretionary Data
									9F0A 08 0001050100000000	Application Selection Registered Proprietary Data: Debit Product
5F34	Application Primary Account Number (PAN) Sequence number							N	00	
9F08	Application Version Number								00A0	

9F07	Application Usage Control	EMV	02	b	M	READ RECORD		N	FF00	
9F42	Application Currency Code									not used
	Unique DEA Key	VIS	10	b	M			N		
	Unique Message Authentication Code (MAC) DEA Key	VIS	10	b	M			N		
8F	Certificate Authority Public key index									
9F36	Application Transaction Counter (ATC)								0000	
9F52	Application Default Action	VIS	06	b	M			N	E3 38 38 00 0E 00	
9F68	Card Additional Process (CAP)	VCPS	04	b	M			N	48248000	
9F69	Card Authentication Related data	VCPS	07	b	M	READ RECORD		N	01000000000000	
9F6C	Card Transaction Qualifiers (CTQ)	VCPS	02	b	M	GPO GET DATA PUT DATA		N	2000	
8C	CDOL1 (contact)		1C					N	9F0206 9F0306 9F4E14 9F1A02 9505 5F2A02 9A03 9C01 9F2103 9F3704 9F3403	
8D	CDOL2 (contact)		1F					N	8A02 9108 9F0206 9F0306 9F1A02 9F4E14 9505 5F2A02 9A03 9C01 9F3704 9F2103	
A5 <9F38>	PDOL									not used
9F4D	Log Entry	EMV	02	b	M	SELECT		N	'x'x'y'y'	
9F4F	Log Format	EMV	19	b	M	GET DATA		N	9F0206 9F2701 9F1A02 5F2A02 9A03 9C01 DF5204 9F3602 DF3E01 9F4E14 9F2103	
9F10	Issuer Application Data		var.						06...	
9F52	CVR	VIS	4	b	M			N		
DF30	tag CB pour activation/desactivation du sans contact	VIS							03	

BF5B <DF01>	Application Capabilities	VIS	02	b	M	GET DATA PUT DATA		N	40 00	Contactless functionality enabled
BF5B <DF05>	Contactless CVM Priority List	VIS	04	b					01040203	
82	Application Interchange Profile (AIP) (contact)	EMV	02	b	M	GPO PUT DATA	Y	N	3900	
82	Application Interchange Profile (AIP) (Contactless)	EMV	02	b	M	GPO PUT DATA	Y	N	2000	
94	Application File Locator (AFL)	EMV	var.	b	M	GPO PUT DATA		N		value set by vendor
BF58 <DF1x>	Cumulative Total Transaction Amount	VIS	06	n12	M	GEN AC PUT DATA		N	000000000000	
BF58 <DF2x>	Cumulative Total Transaction Amount Limit	VIS	06	n12	M	GET DATA PUT DATA		N	000000030000	
BF58 <DF3x>	Cumulative Total Transaction Amount Upper Limit	VIS	06	n12	M	GET DATA PUT DATA		N	000000040000	
BF58 <DF41>	VLP Single Transaction Limit	VIS	06	n12	M	GET DATA PUT DATA		N	000000000000	
BF55 <DF51>	VLP Available Funds	VIS	06	n12	M	GET DATA PUT DATA CSU		N	000000015000	
BF55 <DF71>	VLP Funds Limit	VIS	06	n12	M	GET DATA PUT DATA		N	000000015000	
DF61 <BF55>	VLP Reset Threshold	VIS	06	n12	O	GET DATA PUT DATA		N		not used
9F51	Application Currency Code	VIS	2	n3					0978	
BF56 <DF1x>	Consecutive Transaction Counter (CTC x)	VIS	01	b	O	GET DATA PUT DATA CSU		N		not used
BF57 <DF1x>	Consecutive Transaction Counter International (CTCI)	VIS	01	b	O	GET DATA PUT DATA CSU		N		not used
BF57 <DF5x>	Consecutive transaction counter international country (CTCIC x)	VIS	01	b	O	GET DATA PUT DATA CSU		N		not used
BF57 <DF6x>	Consecutive Transaction International Country Limit x (CTCICL x)	VIS	01	b	O	GET DATA PUT DATA		N		not used

BF57 <DF2x>	Consecutive Transaction Counter International Limit (CTCIL x)	VIS	01	b	O	GET DATA PUT DATA		N		not used
BF57 <DF3x>	Consecutive Transaction Counter International Upper Limit (CTIUL x)	VIS			O	GET DATA PUT DATA		N		not used
BF56 <DF2X>	Consecutive Transaction Counter Limit x (CTCL x)	VIS			O	GET DATA PUT DATA		N		not used
BF56 <DF3X>	Consecutive Transaction Counter Upper Limit x (CTCUL x)	VIS			O	GET DATA PUT DATA		N		not used
BF55 <DF11>	Contactless Transaction Counter (CLTC)	VIS	01	b	O	GET DATA PUT DATA CSU		N	01	
BF55 <DF21>	Contactless Transaction Counter Lower Limit (CLTCLL)	VIS	01	b	O	GET DATA PUT DATA		N		not used
BF55 <DF31>	Contactless Transaction Counter Upper Limit (CLTCUL)	VIS	01	b	O	GET DATA PUT DATA		N		not used
BF55 <DF41>	VLP Single Transaction Limit	VIS	06	n12	M	GET DATA PUT DATA		N	000000005000	
8E	Cardholder Verification Method (CVM) list (contact)						Y	N	00000000 00000000 4201 0103 0203 1E03 1F00	
9F56	Issuer Authentication Indicator	VIS	01	b	M	GET DATA PUT DATA		Y	80	
9F0D	Issuer Action Code - Default (contact)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	BC 40 24 80 00	
9F0E	Issuer Action Code - Denial (contact)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	00 10 D8 00 00	
9F0F	Issuer Action Code - Online (contact)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	BC 60 24 98 00	

3.3.5 CP12RMC set : MASTERCARD part

CP12 R CB-MC - APPLICATIONS MCW - PAYMENT/WITHDRAWAL - DUAL INTERFACE -MCHIP ADVANCE										
4F	ADF Name									ADF Name MCW
									A0000000041010	
70	Payment System Directory Entry Record	EMV	2C	b	M	READ RECORD		Y	6110...	Directory Entry 1
									4F 07 A00000000421010	ADF Name CB
									50 02 4342	Application Label AID CB
									87 01 01	Priority Indicator
									73 0D	
									9F0A 08 0001050100000000	
									6118...	Directory Entry 2
									4F 07 A0000000041010	ADF Name MCW
									50 0A 4D415354455243415244	Application Label AID MCW
									87 01 02	Priority Indicator
									73 0D	
									9F0A 08 0001050100000000	
6F	FCI Template PPSE	EMV	5F	b	M	SELECT		Y	840E...	
									84 0E 325041592E5359532E44444463031	"2PAY.SYS.DDF01"
									A5 4D	FCI Proprietary Template
									BF0C 4A	FCI Issuer Discretionary Data
									61 1F	Directory Entry 1
									4F 07 A00000000421010	ADF Name CB
									50 02 4342	CB (Application Label)
									87 01 01	Application Priority Indicator
									9F2A 01 2E	Kernel CPACE
									9F0A 08 0001050100000000	

									61 1F	Directory Entry 2
									4F 07 A0000000421010	ADF NameCB
									50 02 4342	CB (Application Label)
									87 01 01	Application Priority Indicator
									9F2A 01 02	Kernel MasterCard
									9F0A 08 0001050100000000	
									61 23	
									4F 07 A0000000041010	ADF Name MCW
									50 0A 4D415354455243415244	MasterCard (Application Label)
									87 01 02	Application Priority Indicator
									9F2A 01 02	Kernel Mastercard
									9F0A 08 0001050100000000	
6F	FCI Template ADF CB Contactless	24			M			N	8407...	
									84 07 A0000000421010	ADF Name CB
									A5 19	FCI Proprietary Template
									50 02 4342	CB (Application Label)
									87 01 01	Application Priority Indicator
									BF0C 0F	FCI Issuer Discretionary Data
									9F0A 08 0001050100000000	Application Selection Registered Proprietary Data: Debit Product
									DF61 01 04	Base applicative sans contact MCW
6F	FCI Template ADF MCW (contact)	2D			M			N	8407...	
									84 07 A0000000041010	ADF Name MCW
									A5 22	FCI Proprietary Template

									50 0A 4D415354455243415244	MASTERCARD (Application Label)
									87 01 02	Application Priority Indicator
									BF0C 10	FCI Issuer Discretionary Data
									9F4D 02 xx19	xx SFI Log Entry - Maximum number of records 25
									9F0A 08 0001050100000000	Application Selection Registered Proprietary Data: Debit Product
6F	FCI Template ADF MCW (contactless)	28			M			N	8407...	
									84 07 A0000000041010	ADF Name MCW
									A5 1D	FCI Proprietary Template
									50 0A 4D415354455243415244	MASTERCARD
									87 01 02	Application Priority Indicator
									BF0C 0B	FCI Issuer Discretionary Data
									9F0A 08 0001050100000000	Application Selection Registered Proprietary Data: Debit Product
5F34	Application Primary Account Number (PAN) Sequence number								00	
5F30	Service code								901	
9F1F	Track1 Discretionary Data									set by vendor
9F7E	Application Life Cycle Data	MCW								set by vendor
9F08	Application Version Number								0002	
9F07	Application Usage Control	EMV	02	b	M	READ RECORD		Y	FF00	
9F42	Application Currency Code									not used
9F44	Application Currency Exponent									
DF02	Security Limits Status	MCHIP	01	b	M				00	

DF35	Security Limits Status (contactless)	MCHIP	01	b	M				00	
DF37	Security Limits Common	MCHIP	01	b	M				00	
E2 <DF0x>	Additional Security Limits	CPACE	04	b	O	PUT DATA		N		not used - contains Additional AC Session Key Counter Limit and Additional SMI Session Key Counter Limit
	AC Master Key (Contact)	MCHIP	10	b	M			N		
	AC Master Key (Contactless)	MCHIP	10	b	M			N		
	AC Master Key (MAS4C)	MCHIP	10	b	O			N		not used
	SMI Master Key (contact)	MCHIP	10	b	M			N		
	SMI Master Key (contactless)	MCHIP	10	b	M			N		
	SMC Master Key (contact)	MCHIP	10	b	M			N		
	SMC Master Key (contactless)	MCHIP	10	b	M			N		
	ICC Dynamic Number Master Key (contact)	MCHIP	10	b				N		not used
	ICC Dynamic Number Master Key (contactless)	MCHIP	10	b				N		not used
	KDCVC3 (contact)	MCHIP	10	b				N		not used
	KDCVC3 (contactless)	MCHIP	10	b				N		not used
	AC Session Key Counter (Contact)	MCHIP	02	b	M			N	0000	
	AC Session Key Counter (Contactless)	MCHIP	02	b	M			N	0000	
	AC Session Key Counter (MAS4C)	MCHIP	02	b	M			N		not used
DF3A	AC Session Key Counter Limit (Contact)	MCHIP	02	b	M	PUT DATA		N	FFFF	
DF34	AC Session Key Counter Limit (Contactless)	MCHIP	02	b	M	PUT DATA		N	FFFF	
DF78	AC Session Key Counter Limit (MAS4C)	MCHIP	02	b	M	PUT DATA		N		not used
	SMI Session Key Counter (contact)	MCHIP	02	b	M			N	0000	
	SMI Session Key Counter (contactless)	MCHIP	02	b	M			N	0000	

DF32	SMI Session Key counter limit (contact)	MCHIP	02	b	M			Y		FFFF	
DF33	SMI Session Key counter limit (contactless)	MCHIP	02	b	M			N		FFFF	
	PIN Decipherment Error Counter	MCHIP	02	b						0000	
DF36	PIN Decipherment Error Counter Limit	MCHIP	02	b						FFFF	
	Length of ICC Public Key Modulus	MCHIP	1	b	M						set by vendor
	Length of ICC PIN Encipherment Public Key Modulus	MCHIP	1	b	M						set by vendor
8F	Certificate Authority Public key index							N			see Key page
9F36	Application Transaction Counter (ATC)									0000	
	Application Transaction Counter limit	MCHIP	02	b	M			N		FFFF	
DF38	IVCVC3(Track1) (Contact)	MCHIP	02	b	O			N			not used
DC	IVCVC3(Track1) (Contactless)	MCHIP	02	b	O			N			not used
DF39	IVCVC3(Track2) (Contact)	MCHIP	02	b	O			N			not used
DD	IVCVC3(Track2) (Contactless)	MCHIP	02	b	O			N			not used
9F45	Data Authentication Code	MCHIP	02	b	O			N			not used
	Script Counter	MCHIP	01	b	M			N		00	
D5	Application Control (Contact)	MCHIP	06	b	M	GET DATA PUT DATA		N		0C 00 80 00 41 02	
D7	Application Control (Contactless)	MCHIP	06	b	M	GET DATA PUT DATA		N		00 00 80 10 41 02	
8C	CDOL1	EMV	27	b	M	READ RECORD	Y	N		9F0206 9F0306 9F1A02 9505 5F2A02 9A03 9C01 9F3704 9F3501 9F4502 9F4C08 9F3403 9F2103 9F7C14	
C7	CDOL1 related data length	MCHIP	01	b	M	GET DATA PUT DATA		N		42	
8D	CDOL2		0C		M			N		910A 8A02 9505 9F3704 9F4C08 9F0206 9F0306	

9F49	DDOL								9F3704	Used with DDA
9F51	DRDOL	MCHIP	03	b	O	READ RECORD		N		not used
A5 <9F38>	PDOL									
DE	Log Data Table	MCHIP	09	b	M			N	000000000000000000	
9F4D	Log Entry								x'x'y'y'	
9F4F	Log Format		1F		M				9F0206 9F2701 9F1A02 5F2A02 9A03 9C01 9F5206 9F3602 DF3E01 9F7C14 9F2103	
9F10	Issuer Application Data		xx	b					dd10 yyyyyyyyyyyy nnnn cc...cc ll	
9F52	CVR	MCHIP	6	b	M			N		
DF3C	CVR Issuer Discretionary Data (contact)	MCHIP	1	b	O					not used
DF3D	CVR Issuer Discretionary Data (contactless)	MCHIP	1	b	O					not used
D3	Additional Check Table	MCHIP	12	b	O			N		not used
DF3F	Read Record Filter (contact)	MCHIP	var.	b	O			N		not used
DF40	Read Record Filter (contactless)	MCHIP	var.	b	O	GET DATA PUT DATA		N		not used
DF30	Interface Enabling Switch	MCHIP	01	b	M	GET DATA PUT DATA			03	Contact and Contactless Interfaces Enabled
DF04	Max Time for Processing Relay Resistance APDU (contact)	MCHIP	02	b	O	GET DATA PUT DATA		N		not used
DF74	Max Time for Processing Relay Resistance APDU (contactless)	MCHIP	02	b	O	GET DATA PUT DATA		N		not used
DF05	Min Time for Processing Relay Resistance APDU (contact)	MCHIP	02	b	O	GET DATA PUT DATA		N		not used
DF75	Min Time for Processing Relay Resistance APDU (contactless)	MCHIP	02	b	O	GET DATA PUT DATA		N		not used
82	Application Interchange Profile (AIP) (Contact)	EMV	02	b	M	GPO PUT DATA	Y	N	3900	
D8	Application Interchange Profile (AIP) (Contactless)	MCHIP	02	b	M	GPO PUT DATA	Y	N	1980	

94	Application File Locator (AFL) (Contact)	EMV	var.	b	M	GPO GET DATA PUT DATA	N		value set by vendor
D9	Application File Locator (AFL) (Contactless)	MCHIP	var.	b	M	GPO GET DATA PUT DATA	N		value set by vendor
DF3B	Accumulator 1 Amount	MCHIP	6	n12			N	000000000000	Represents the cumulative amount of transactions accepted offline
DF11	Accumulator 1 Control (Contact)	MCHIP	01	b	M	GET DATA PUT DATA	N	C0	Always Accumulate
DF12	Accumulator 1 Control (Contactless)	MCHIP	01	b	M	GET DATA PUT DATA	N	C0	Always Accumulate
C9	Accumulator 1 Currency Code	MCHIP	02	n3	M	GET DATA PUT DATA	N	0978	Euro
D1	Accumulator 1 Currency Conversion Table	MCHIP	19	b	M	GET DATA PUT DATA	N	0978000000 0978000000 0978000000 0978000000 0978000000	
DF28	Accumulator 1 CVR Dependency Data (contact)	MCHIP	03	b	O	GET DATA PUT DATA	N		Not used
DF29	Accumulator 1 CVR Dependency Data (contactless)	MCHIP	03	b	O	GET DATA PUT DATA	N		Not used
CA	Accumulator 1 Lower Limit	MCHIP	06	n12	M	GET DATA PUT DATA	N	000000030000	
CB	Accumulator 1 Upper Limit	MCHIP	06	n12	M	GET DATA PUT DATA	N	000000040000	
DF13	Accumulator 2 Amount	MCHIP	6	n12	M		N	000000000000	Represents the cumulative amount of contactless transactions accepted offline
DF14	Accumulator 2 Control (Contact)	MCHIP	01	b	M	GET DATA PUT DATA	N	00	Never Accumulate (contact profile)
DF15	Accumulator 2 Control (Contactless)	MCHIP	01	b	M	GET DATA PUT DATA	N	C0	Always Accumulate (contactless profile)
DF16	Accumulator 2 Currency Code	MCHIP	02	n3	M	GET DATA PUT DATA	N	0978	Euro
DF17	Accumulator 2 Currency Conversion Table	MCHIP	19	bb	M	GET DATA PUT DATA	N	0978000000 0978000000 0978000000 0978000000 0978000000	
DF2A	Accumulator 2 CVR Dependency Data (contact)	MCHIP	03	b	O	GET DATA PUT DATA	N	000000	Not used
DF2B	Accumulator 2 CVR Dependency Data (contactless)	MCHIP	03	b	O	GET DATA PUT DATA	N	000000	Not used

DF18	Accumulator 2 Lower Limit	MCHIP	06	n12	M	GET DATA PUT DATA	N	000000015000	
DF19	Accumulator 2 Upper Limit	MCHIP	06	n12	M	GET DATA PUT DATA	N	000000015000	
DF1C	Counter 1 Number	MCHIP	01	b	M	GET DATA PUT DATA	N	00	Not used
DF1A	Counter 1 Control (Contact)	MCHIP	01	b	M	GET DATA PUT DATA	N	00	No Counting
DF1B	Counter 1 Control (Contactless)	MCHIP	01	b	M	GET DATA PUT DATA	N	00	No Counting
DF2C	Counter 1 CVR Dependency Data (Contact)	MCHIP	03	b	M	GET DATA PUT DATA	N	000000	Not used
DF2D	Counter 1 CVR Dependency Data (Contactless)	MCHIP	03	b	M	GET DATA PUT DATA	N	000000	Not used
9F14	Counter 1 Lower Limit	MCHIP	03	b	M	GET DATA PUT DATA	N	FF	
9F23	Counter 1 Upper Limit	MCHIP	01	b	M	GET DATA PUT DATA	N	FF	
DF20	Counter 2 Number	MCHIP	01	b	M	GET DATA PUT DATA	N	00	Not used
DF1D	Counter 2 Control (Contact)	MCHIP	01	b	M	GET DATA PUT DATA	N	00	No counting
DF1E	Counter 2 Control (Contactless)	MCHIP	01	b	M	GET DATA PUT DATA	N	00	No counting
DF2E	Counter 2 CVR Dependency Data (Contact)	MCHIP	03	b	M	GET DATA PUT DATA	N	000000	Not used*
DF2F	Counter 2 CVR Dependency Data (Contactless)	MCHIP	03	b	M	GET DATA PUT DATA	N	000000	Not used*
DF1F	Counter 2 Lower Limit	MCHIP	01	b	M	GET DATA PUT DATA	N	FF	Not used
DF21	Counter 2 Upper Limit	MCHIP	01	b	M	GET DATA PUT DATA	N	FF	Not used
C8	CRM Country Code	MCHIP	02	n3	M	GET DATA PUT DATA	N	0250	
DF24	MTA currency code	MCHIP	02	n3	M	GET DATA PUT DATA	N	0978	
DF22	MTA CVM (contact)	MCHIP	06	n12	O	GET DATA PUT DATA	N		not used
DF23	MTA CVM (contactless)	MCHIP	06	n12	O	GET DATA PUT DATA	N		not used
DF25	MTA NoCVM (contact)	MCHIP	06	n12	M	GET DATA PUT DATA	N		not used

DF26	MTA NoCVM (contactless)	MCHIP	06	n12	M	GET DATA PUT DATA		N	000000005000	
DF27	Number of Days Offline Limit	MCHIP	02	b	O	GET DATA PUT DATA		N		not used
C3	Card Issuer Action Code (Contact) - Decline	MCHIP	03	b	M	GET DATA PUT DATA		N	11 00 00	
C4	Card Issuer Action Code (Contact) - Default	MCHIP	03	b	M	GET DATA PUT DATA		N	28 58 50	
C5	Card Issuer Action Code (Contact) - Online	MCHIP	03	b	M	GET DATA PUT DATA		N	28 FF F0	
CF	Card Issuer Action Code (Contactless) - Decline	MCHIP	03	b	M	GET DATA PUT DATA		N	00 00 00	
CD	Card Issuer Action Code (Contactless) - Default	MCHIP	03	b	M	GET DATA PUT DATA		N	08 F0 F8	
CE	Card Issuer Action Code (Contactless) - Online	MCHIP	03	b	M	GET DATA PUT DATA		N	08 F4 F8	
8E	Cardholder Verification Method (CVM) list (contact)							N	00000000 00000000 4201 4103 5E03 4203 1F03	
8E	Cardholder Verification Method (CVM) list (contactless)							N	00000000 00000000 5E03 4203 1F03	
9F0D	Issuer Action Code - Default (contact)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	BC 60 24 80 00	
9F0E	Issuer Action Code - Denial (contact)	EMV	05	b		READ RECORD UPDATE RECORD	Y		00 10 D8 00 00	
9F0F	Issuer Action Code - Online (contact)	EMV	05	b		READ RECORD UPDATE RECORD	Y	N	BC 60 24 98 00	
9F0D	Issuer Action Code - Default (contactless)	EMV	05	b		READ RECORD UPDATE RECORD	Y		00 00 00 00 00	
9F0E	Issuer Action Code - Denial (Contactless)						Y		B4 70 E0 00 00	
9F0F	Issuer Action Code - Online (contactless)	EMV	05	b	M	READ RECORD UPDATE RECORD	Y	N	00 00 00 00 00	