CB2A Authorisation
Acceptor to Acquirer Protocol
(2AP Authorisation)

e-commerce
from version 1.6.0 to 1.6.5

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Revision history

Version	Date	Content
1	June 2025	First version

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1 OVERVIEW OF DOCUMENT

This document outlines the updates to be implemented to upgrade e-commerce solutions from version 1.6.1 to version 1.6.5 of CB2A/2AP authorisations for e-commerce.

It contains:

- Volume 0: e-commerce updates from CB2A/2AP version 1.6.1 to 1.6.5
- Volume 2: updates of data field dictionary from CB2A/2AP version 1.6.1 to 1.6.5
- Volume 3.3: updates of messages from CB2A/2AP version 1.6.1 to 1.6.5

2 LIST OF CHANGES FROM VERSION 1.6.1 TO 1.6.5

CB2A Authorisation
Acceptor to Acquirer Protocol
(2AP Authorisation)

Updates
Versions from 1.6.0 to 1.6.5

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CB2A 1.6.1 JUNE 2020

1249 – NEW FIELD 119

Background:

The maximum size of the CB2A Authorisation protocol fields is limited to 255 bytes.
This limitation will soon cause problems due to the saturation of existing fields. After consulting with users, we have decided to create a new field with the same characteristics as a new CBAE field.

Implementation:

Volume 2 – Data dictionary

2.2 Data format and coding

…

2.2.1 Notation conventions

…

Notation	Description
L	length of TLV (Type Length Value)
LL	~~length expressed in 2 significant characters (1 to 99)~~ length coded on one byte and between 1 and 99 bytes
LLL	~~length expressed in 3 significant characters (1 to 255)~~ length coded on one byte and between 1 and 255 bytes
LL2	length coded on two bytes and between 1 and 999 bytes
3	fixed-length of 3 units[1)]
...15	variable length up to 15 units[1)]
3…15	variable length of 3 to 15 units[1)]

Table 2: Data length notations

1) A unit is defined by the field type or the data element.

2.2.6.2 Variable-length fields

Variable-length fields are preceded by ~~a~~ **one** byte or **2 bytes** indicating the field length. This length is coded in binary. Depending on the field type, a variable-length field can be from 1 to 255 **or 999 bytes long, up to the maximum length of the field format**.

2.2.6.3 Fields with a TLV (Type Length Value) structure

B. "Binary" TLV fields

Each data element is coded as follows:

- "T": two binary bytes,
- "L": one binary byte (maximum length 255) or two binary bytes (maximum length 999),
- "V": the number of bytes defined by the length. The binary format is implicit for each type. The description may specify several fixed-length data elements.

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Reserved for national use	119
…	

…

2.3.2 List by field number

N°	Type	Description	Format	
…				
119		Reserved for national use	LL2VAR	b…999
…				

…

2.3.3 Data fields description

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use.

- Data type b2
- Data length b2
- Data value.

1193 – CORRECTIONS

Background:

Corrections and editorial changes to the 1.6.0 version

Field 55 type 009C does not provide a corresponding value for

funds transfer debit. Fields 56 type 012, 013 and 014 has

been forgotten in 2.3.2. « list by field number ».

The 'E' (successful authentication, without cryptogram) value has been removed although it is still used (for Paylib, for example) in cardholder authentication of three domain secure results.

Some labels of ERT (Regulatory and Technical Environment) are clarified.

Implementation:

Volume 2 – Data dictionary

2.3.3 Data fields description

Field 59 **Format: LLLVAR b…255**

Reserved for national use

…

➢ ***TYPE = 200: ERT (REGULATORY AND TECHNICAL ENVIRONMENT)***

Data format: b1 Number of bytes transported: 1

…

Value	Description
Remote payment	
20	~~Unspecified~~ Remote payment, manual entry via terminal
…	
24	~~Open networks~~ Internet, Cardholder Initiated Transaction
27	~~Open networks, recurring payments~~ Internet, subsequent transaction
…	
Unattended payment	
…	
48	~~Unattended payment outside CB context~~ Payment via an unattended machine for specific activities (highways, car parks,etc)
…	

…

➢ TYPE = 0412: THREE-DOMAIN SECURE RESULTS

Data format: Structure Number of bytes transported: 4

…

Cardholder authentication **an1**

Value	Description
In the CB nomenclature (Result of cardholder authentication)	
A	Proof of transit via ACS
E	Successful authentication, without cryptogram
N	Unsuccessful authentication
U	Call made to ACS
Y	Successful authentication, with cryptogram
Blank	Timeout on ACS or no call to ACS

…

1194 - RESEND COUNTER FOR OPEN PAYMENT IN REMOTE PAYMENT

Background:

For Open Payment, the field 56.0020 « Resend counter » is used for re-authorised messages in face-to-face payment. It is also required for MIT debt recovery in remote payment.

Implementation:

Change in Volume 3.3 – Remote payment and secured electronic commerce

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
56	Additional data	C(2)	C(2)
…			
0020	Resend counter	C(158)	·
…	…	…	…

A: Payment reversal request : **0400/0401**	**B:** Response to payment reversal request : **0410**

N°	Definition	A	B
56	Additional data	C(2)	C(2)
…			
0020	Resend counter	CQI(104)	·
…	…	…	…

N°	COMMENTS
…	
2	See list of types
…	
158	Mandatory for resubmission

1196 - TRANSACTIONS LINKING

Background:

Some changes are done in the data dictionary to improve the chaining transactions rules:

- The fields 'Unique transaction Identifier' and 'Original unique transaction Identifier' are modified.
- In the new field 119 (see. change feet 1249), a new sub-field is created for a new identifier to link a refund transaction to the associated debit transaction.
  This identifier is populated with the unique transaction Identifier of the associated debit transaction sent by the issuer in the authorisation request response.

Implementation:

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Reserved for national use	119
…	
Debit unique reference identifier	119 type 0047
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
47		Additional data – national	LLLVAR	ans…255
	95	Unique transaction identifier		ans…50
…				
	99	Original unique transaction identifier		ans…5~~3~~**30**
…				
119		Reserved for national use	LL2VAR	b…999
…				
	0047	Debit unique reference identifier		ans…50
…				

2.3.3 Data fields description

…

Field 47 **Format: LLLVAR ans…255**

Additional data - national

…

TYPE = 95: UNIQUE TRANSACTION IDENTIFIER

…

Data format: ans…50 Number of bytes transported: …50

…

TYPE = 99: ORIGINAL UNIQUE TRANSACTION IDENTIFIER

…

Data format: ans…5~~3~~**0** Number of bytes transported: …5~~3~~**0**

~~This data element contains the unique transaction identifier which is the reference for the identification of the initial transaction.~~
This data element contains the unique identifier of the transaction used as reference for linking.

Note that the first position of the data element contains the nomenclature.

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

…

- Data type b2

Type	Description	Repeatability
…		
0047	Debit unique reference identifier	
…		

- Data length b2
- Data value.

…

TYPE = 0047: DEBIT UNIQUE REFERENCE IDENTIFIER

Data format: ans…50 Number of bytes transported: …50

Identifier of the debit transaction to which a credit transaction is associated. This debit is an authorized debit which can have been made in remote payment or in another payment method.

Change in Volume 3.3 – Remote payment / Secured electronic commerce

8. Messages description

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
119	Reserved for national data	C(2)	C(2)
…			
0047	Debit unique reference identifier	C(156)	·
…	…	…	…

A: Payment reversal request : **0400/0401**	**B:** Response to payment reversal request : **0410**

N°	Definition	A	B
119	Reserved for national data	C(2)	C(2)
…			
0047	Debit unique reference identifier	CQI(104)	·
…	…	…	…

N°	COMMENTS
…	
2	See list of types
3	Mandatory if available
…	
104	Mandatory if present in the initial request
…	
156	Mandatory if available for a credit transaction

1212 - ALIGNMENT WITH MPADS

Background:

Some changes are done in the data dictionary to be aligned with MPADS :

- The name and length of field 59.0400 are modified (the data element may also contain a cryptogram),
- The label and definition for A1 authorisation request response code is clarified,
- The exemption label 'Strong authentication implemented by acceptor (wallet)' is modified to generalise its use,
- A new indicator is necessary to specify the unavailability of the 3DS Server module and inform the issuer during the authorisation request (or request for information),
- Merchant name, authentication date and and authentication amount definitions are modified to generalise their use in a context different from the EMV Co,
- Some schemes need a merchant identifier dedicated to their programs.
- The field « Electronic commerce data elements, initial transaction » needs a precision,
- The field « Cardholder authentication value calculation method» needs to be clarified,
- The field « cardholder authentication method » is modified to generalise its use for all third-party Wallet,
- The « Requirements related to information requests » paragraph is clarified.

Implementation:

Field 119 created in change sheet 1196 will contain the new 3D indicator and merchant identifier for the scheme program .

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Transaction identifier or cryptogram supplied by the acceptor	59 type 0400
…	
Scheme program merchant identifier	119 type 0009
…	
Three-domain secure components availability	119 type 0013
…	

2.3.2 List by field number

N°	Type	Name	Format	
59		National data	LLLVAR	b…255
	…			
	0400	Transaction identifier or cryptogram supplied by the acceptor		b~~…204~~**…40**
	…			
119		Reserved for national use	LL2VAR	b…999
	0009	Scheme program merchant identifier		ans…8
	…			
	0013	Three-domain secure components availability		an1
…				

2.3.3 Data fields description

…

Field 39 **Format: an2**

Response code

Value	Description
…	
A1	Soft decline (electronic commerce only)
…	…
A4	Misused TRA exemption
…	

…

Field 56 **Format: LLLVAR b…255**

Additional data

…

TYPE = 0033: EXEMPTION INDICATOR

Indicates the exemption cases(s) for the transaction related to strong cardholder authentication.

❑ **Byte 1** **b1**

Value	Description
…	
6	~~Strong authentication implemented by acceptor (wallet)~~ Delegated authentication
…	

…

TYPE = 0036: AUTHENTICATION MERCHANT NAME

Data format: ans40 Number of bytes transported: 40

~~Identifier assigned by the Directory Server to uniquely identify the merchant.~~ Name of the merchant presented for authentication.

TYPE = 0037: AUTHENTICATION DATE

Data format: n14 ((YYYYMMDDHHMMSS) Number of bytes transported: 7 Date and time of authentication. ~~Corresponds to the EMVCo data element "purchaseDate".~~

TYPE = 0038: AUTHENTICATION AMOUNT

Data format: n12 Number of bytes transported: 6

Authentication amount. ~~Corresponds to the EMVCo data element "purchaseDate".~~

…

Field 59 **Format: LLLVAR b …255**

National data

…

TYPE = 0400: TRANSACTION IDENTIFIER OR CRYPTOGRAM SUPPLIED BY THE ACCEPTOR

Data format: b~~20~~4…40 Number of bytes transported: ~~20~~4…40

Contains a unique reference for a secured electronic commerce transaction (This identifier is used in certain electronic commerce cryptogram calculation methods.) or a cryptogram generated by the acceptance solution.

…

TYPE = 04100: Cardholder authentication method

Data format: an2 Number of bytes transported: 2

Contains the cardholder authentication method.

For transactions performed with a third-party wallet, the data element contains the authentication method ~~defined in the EMVCo 3DS protocol.~~ when the wallet provides it for the transaction.

TYPE = 0411:	*CARDHOLDER AUTHENTICATION VALUE CALCULATION METHOD*

…

Contains the calculation method used by the issuer to make the electronic commerce cryptogram.

- For 3DS V1: Its value is identical to the 3D-Secure PARes message <TX><cavvAlgorithm> XML tag.
- For CB EMVCo 3DS : Its value is identical to the CB-AVALGO extension for Ares and RReq messages.
- W: Cryptogram generated by a wallet solution

TYPE = 0420:	*ELECTRONIC COMMERCE DATA, INITIAL TRANSACTION*

Data format: structure — Number of bytes transported: 22..58

Electronic commerce data from the initial transaction of a multiple payment. This data may be requested in the transactions subsequent to this initial transaction

❑ Electronic commerce transaction security type	n2
❑ Cardholder authentication method	ans2
❑ Cardholder authentication value calculation method	an1
❑ Result of using a secured remote payment architecture	ansb4
❑ Extension of result of using a secured payment architecture	ansb10
❑ Cardholder authentication value	b4..40

If a data element is not significant, it is valued with the padding character specific to the data format.

…

Field 119	Format: LL2VAR b…999

Reserved for national use

❑ Data type _____ b2

Type	Description	Repeatability
0009	Scheme program merchant identifier	
0013	Three-domain secure components availability	

- ❑ Data length b2
- ❑ Data value.

…

TYPE = 0009:	*SCHEME PROGRAM MERCHANT IDENTIFIER*

Data format: ans…8 Number of bytes transported: …8

Merchant identifier for the transaction scheme program

TYPE = 0013:	*THREE-DOMAIN SECURE COMPONENTS AVAILABILITY*

Data format: an1 Number of bytes transported: 1

Value	Description
1	3DS server unavailable

Change in Volume 3.2 – Face-to-Face payment/Unattended payment

6 REQUIREMENTS RELATED TO CARD VALIDITY CHECK

…

~~Field 59 type 100 set to 108, field 4 set to 0 and populated field 59 type 0418 refers to a wallet enrolment.~~

Note: a field 59 type 0418 (Wallet Identifier) set indicates **a wallet registration**.

Change in Volume 3.3 – Remote payment secured electronic commerce

2.1. Response codes for a remote payment authorisation request

N°	Description
A1	Soft decline (electronic commerce only)
…	
A4	Misused TRA exemption
…	

6. Requirements related to card validity check

The purpose of this transaction is to request information about a cardholder PAN (Primary Account Number).

Message type identifier:
- Request: 0100
- Response: 0110

Typical values:
- field 4 (Amount) = 0
- field 59 type 0100 (Function code) = 108 (card validity check)

~~Field 59 type 100 set to 108, field 4 set to 0 and populated field 59 type 0418 refers to a wallet enrolment.~~

The following specific values indicate a wallet registration :

- field 59 type 100 (Function code) set to 108 (card validity check)
- field 4 (Amount) set to 0
- field 59 type 0418 (Wallet Identifier) set

The following specific values indicate an card validity check before shipment :

- field 59 type 100 set to 108
- field 4 set to 0
- field 56 type 0028 (Payment use case) = 04 (Shipment payment)

7. Messages description

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
56	Additional data	C(2)	C(2)
…			
0010	IP address	C(3)	.
0022	3DS protocol major version	C(~~3~~155)	.
0036	Authentication merchant name	C(~~103~~157)	.
0037	Authentication date	C(~~103~~157)	.
0038	Authentication amount	C(~~103~~157)	.

…			
119	Reserved for national data	C(2)	C(2)
…			
0009	Scheme program merchant identifier	C(3)	.
0013	Three-domain secure components availability	C(3)	.

N°	COMMENTS
…	
2	See list of types
3	Mandatory if available
…	
155	Mandatory if 3DS authentication
…	
157	Mandatory if provided by the implemented authentication solution

1213 - MPAT - DEBT RECOVERY

Background:

A new service attribute is created to identify the debt recovery for Open Payment transit transactions.

The present condition of field 59.800 « service attribute » is modified.

Implementation:

Change in Volume 2 - Data Field Dictionary

2.3.3 Definition of the data fields used

Field 59 **Format: LLLVAR b …255**

National data

TYPE = 0800: ***SERVICE ATTRIBUTE***

…

Value	Description
…	
11	Debt recovery
…	

…

Change to Volume 3.3 – Remote payment and secured electronic commerce

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
59	National data	C(2)	C(2)
…			
0800	Service attribute	C(~~1346~~)	FQ
…	…	…	…

N°	COMMENTS
…	
2	See list of types
…	
13	Mandatory for a debit transaction if ERT=27, 28 or 80, mandatory for a debit transaction if cumulative amount mandatory if available for a refund
…	
46	~~Mandatory for debit transaction if pre-authorisation, additional invoice or cumulative amount~~ Mandatory if needed to identify the corresponding service

1214 - RESERVATION AND RENTAL (PLBS) - NEW PAYMENT USE CASE

Background:

A new payment use case is identified for reservation and rental payments.

Implementation:

Change in Volume 2 - Data Field Dictionary

2.3.2. Definition of data fields used

Field 56	Format: LLLVAR b …255

Additional data

…

TYPE = 0028: PAYMENT USE CASE

Value	Description
…	
06	Reservation and rental payment
~~06~~07-99	RFU

1232 - EXTENSION OF THE MESSAGE SENT BACK TO THE INITIATOR

Background:

One specific TRD “Titres Restaurant dématérialisés” need is to be able to manage a 100 characters-size length message to send by the sender to the acceptance system because the actual data (field 44 type BC) is too short.

The user can use or field 44 type BC as actually or the new field to send back information to the acceptance system.

Implementation:

Field 119 created in change sheet 1212 will contain the extended message sent to the initiator.

Change to Volume 2 – Data dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Extended message to the transaction initiator	119 type 00BC
…	

…

2.3.2 List by field number

N°	Type	Description	Format	
…				
119	00BC	Extended message to the transaction initiator		ans..101
…				

…

2.3.3 Data fields description

…

Field 119	Format: LL2VAR b…999

Reserved for national use.

- **Data type** **b2**

Type	Description	Repeatability
00BC	Extended message to the transaction initiator	

- **Data length** _____ **b2**
- **Data value.**

TYPE = 00BC: EXTENDED MESSAGE TO THE TRANSACTION INITIATOR

Data format: ans…101 Number of bytes transported: …101

The variable contains a text for the transaction initiator.

- **Control character** _____ **ans1**

Type	Description
0	Reserved
1	Print
2	Display
3	Print and display
4	Print for cardholder only
5	Display for cardholder only
6	Print and display for the cardholder only
7	Print for acceptor only
8	Display for acceptor only
9	Print and display for the acceptor only
A	Print for the acceptor and the cardholder
B	Display for the acceptor and the cardholder
C	Print and display for the acceptor and the cardholder
F	Reserved for private use

- **Response message** **ans…100**

…

Change in Volume 3.3 – Remote payment secured electronic commerce

7. Description of messages

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
119	Reserved for national use	C(2)	C(2)
…			
00BC	Extended message to the transaction initiator	.	F
…			

A: Payment reversal request : **0400/0401**	**B:** Response to payment reversal request : **0410**

N°	Definition	A	B
119	Reserved for national use	C(2)	C(2)
…			
00BC	Extended message to the transaction initiator	.	F
…			

1236 - BIN 8

Background:

Corrections and editorial changes to the 1.6.0 version

Present protocols use the data “Bank BIN” to identify an acquirer in the ecosystem, sometimes linked to its bank code. This data is named “Bank BIN” for historical reasons. Issuer BIN length will be soon increased to 8 digits but the acquirer identifier length will be kept. In order to avoid confusion, the data has been renamed “Acquirer identifier”.

Implementation:

Volume 2 – Data dictionary

2.3.3. Definition of the data fields used

Field 32	Format: LLVAR n…11

Acquiring institution identification code

This field identifies the acquirer of the transaction, i.e. the institution presenting the transaction. Field 32 contains the identifier of the acquirer bank.

The structure is the following:

- ~~**Bank BIN**~~ **Acquirer Identifier**___**n6**
- **Bank code**_____**n5**

CB2A 1.6.1 FICHES FORUM

1491 – LENGTH OF FIELDS 41, 42 AND 43

Background:

Lengths of field 41, 42 and 43 are correct in volume 2 Data field dictionary – '2.3.2 List by field number' but they need to be corrected in '2.3.3 Definition of data fields used'.

Implementation:

Change in Volume 2 - Data Field Dictionary

2.3.3 Definition of data fields used

Field 41	Format: ans8

Card acceptor terminal identification

…

Field 42	Format: ans15

Card acceptor identification code

…

Field 43	Format: ans40

Card acceptor name/location

…

CONDITIONS OF SA COUNTRY CODE

Background:

For remote payments, conditions of presence of field 59 type 0205 'Acceptance system country code' need to be clarified in CB2A Authorisation from the version 1.6.1 to the version 1.6.3.

Implementation:

Change to Volume 3.3 – Remote payment and secured electronic commerce

8 Message descriptions

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
59	National data	C(2)	C(2)
…			
0205	Acceptance system country code	~~C(148)~~ C(63)	.
…			

N°	COMMENTS
…	
2	See list of types
…	
63	Mandatory if data element was provided to the system (parameters downloading), otherwise absent
…	
148	Mandatory for a secured electronic commerce debit transaction executed in EMV mode; mandatory if available for a credit transaction, otherwise absent
…	

CB2A 1.6.1 TOKENISATION BULLETIN JANUARY 2021

CARD ON FILE TOKENISATION

Background:

Some new data elements are required in the data dictionary to be aligned with MPADS V6.3.1 for e.commerce transactions passing through a card-on-file tokenisation process managed by a Token Service Provider:

- Merchant Tokenisation Indicator: to allow the PSP to indicate he uses a card-on-file tokenisation process.
- Token Authentication verification value: contains data uniquely generated by the TSP to enable validation of the authorised use of the Payment Token.
- Token Requestor Id: identifies each unique combination of Token Requestor and Token Domain(s) for agiven Token Service Provider.
- Four last digits of PAN.

Implementation:

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Last four digits of PAN	119 type 9F25
Merchant tokenisation indicator	119 type 0001
Token authentication verification value	119 type 0015
Token Requestor ID	119 type 9F19

2.3.2 List by field number

N°	Type	Name	Format	
…				
119	0001	Merchant tokenisation indicator		an1
119	0015	Token authentication verification value		b4…40
119	9F19	Token Requestor ID		an11
119	9F25	Last four digits of PAN		n4
…				

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

…

Data type b2

Type	Description	Repeatability
0001	Merchant tokenisation indicator	
0015	Token authentication verification value	
9F19	Token Requestor ID	
9F25	Last four digits of PAN	

…

TYPE = 0001: MERCHANT TOKENISATION INDICATOR

Data format: an1 Number of bytes transported: 1

Value	Description
1	Card-On-File tokenisation

TYPE = 0015: TOKEN AUTHENTICATION VERIFICATION VALUE

Data format: b4…40 Number of bytes transported: 4…40

Token cryptogram that contains uniquely generated data to enable validation of the authorised use of thePayment Token.

TYPE = 9F19: TOKEN REQUESTOR ID

Data format: an 11 Number of bytes transported: 11

Identifies each unique combination of Token Requestor and Token Domain(s) for a given Token Service Provider:

- Positions 1-3: Token Service Provider Code, unique to each Token Service Provider
- Positions 4-11: assigned by the Token Service Provider for each Token Requestor and Token Domain

TYPE = 9F25: LAST FOUR DIGITS OF PAN

Data format: n4 Number of bytes transported: 2

Last four digits of PAN

…

Change in Volume 3.3 – Remote payment secured electronic commerce

8. Messages description

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
119	Reserved for national data	C(2)	C(2)
0001	Merchant tokenisation indicator	C(3)	.
0015	Token authentication verification value	C(3)	.
9F19	Token Requestor ID	C(3)	.
9F25	Last four digits of PAN	.	C(3)

N°	COMMENTS
…	
2	See list of types
3	Mandatory if available

…

CB2A 1.6.2 SEPTEMBER 2021

1321 - MPADS

Background:

Some changes are done in the data dictionary to be aligned with MPADS version September 2021:

- The exemption indicator 'Transaction risk analysis – merchant in CB Low Risk Merchant program' isrenamed 'Specific - Scheme Program exemption'.
- For 3DS V2.2, new values are added in:
  - "Transaction Status": value I = Informational Only; 3DS Requestor challenge preferenceacknowledged.
  - "Requestor Challenge Indicator": values 05 to 09.
  - 3DS protocol version number is added.
- The data element 'Electronic commerce transaction security type' is renamed and its value are modified.

Implementation:

-

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

…

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
3DS protocol version number	119 type 0022
…	
Electronic commerce ~~transaction security~~ authentication type	59 type 0407
…	
Modified electronic commerce ~~security~~ authentication type	59 type 0413

2.3.2 List by field number

N°	Type	Name	Format	
59	0407	Electronic commerce ~~transaction security~~ authentication type		n2
…				
59	0413	Modified electronic commerce ~~security~~ authentication type		b1

N°	Type	Name	Format	
…				
119	0022	3DS protocol version number		ans1…8

2.3.3 Data fields description

…

Field 56 **Format: LLLVAR b…255**

Additional data

…

Type = 0033: Exemption indicator

…

☐ **Byte 2**_____ **b1**

Value	Description
…	
1	~~Transaction risk analysis – merchant in CB Low Risk Merchant program~~ Specific -Scheme Program exemption
…	

…

Field 59 **Format: LLLVAR b …255**

National data

…

Type 0407: Electronic commerce ~~transaction security~~ authentication type

…

Type	Description
~~08~~	~~Non-secured electronic commerce transaction~~
09	~~Secured by any means other than those corresponding to the other values~~No authentication crytogram
20	~~Secured electronic commerce~~ Authentication crytogram
21	~~Secured via mobile~~ Authentication crytogram issued from a mobile

…

Type 0412: Three-domain secure results

Data format: Structure Number of bytes transported: 4

Describes the result of exchanges using a secured remote payment architecture.

☐ **Nomenclature**_____ **n1**

Value 0

~~Specifies the result of the use of the secured remote payment architecture.~~

Value	Description
~~0~~	~~CB~~

☐ **Cardholder authentication**_____ **an1**

For 3DS transactions, corresponds to the "Transaction Status" data element in the EMVCo 3DS specificationsso this list below is likely to change according to EMVCo. **Therefore, any relevant value defined by EMV 3DS shall not be rejected by the recipient.**

Value E may be used for third party Wallet.

Type	Description
~~In the CB nomenclature (Result of cardholder authentication)~~	
A	Proof of transit via ACS
E	Successful authentication, without cryptogram
I	Informational only
N	Unsuccessful authentication
U	Call made to ACS
Y	Successful authentication, with cryptogram
Blank	Timeout on ACS or no call to ACS

…

Type 0413: Modified electronic commerce ~~security~~ authentication type

…

Type = 0419: Three-domain secure results, others

☐ **Merchant request for authentication**_____ **n2**

For 3DS transactions, corresponds to the "3DS Requestor Challenge Indicator" data element in the EMVCo 3DS specifications so this list below is likely to change according to EMVCo. **Therefore, any relevant value defined by EMV 3DS shall not be rejected by the recipient.**

Type	Description
01	No preference – default value if the data element is absent or not set to a value
02	No authentication
03	Authentication requested
04	Authentication required
05	No authentication: transaction risk analysis already performed
06	No authentication: data share only
07	No authentication: SCA already performed
08	No authentication: whitelist
09	Authentication required

…

Type = 0420: Electronic commerce data, initial transaction

…

☐ **Electronic commerce transaction ~~security~~ authentication type_____ n2**

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

☐ **Data type_____b2**

Type	Description	Repeatability
…		
0022	3DS protocol version number	
…		

…

Type = 0022: 3DS protocol version number

Data format: ans1…8 Number of bytes transported: 1…8

Corresponds to the "Message version number" data element in the EMVCo 3DS specifications.

Default value of '0' if the data element is absent or not set to a value.

Examples: 2.0.0, 2.1.0, 2.2.0

…

Change to Volume 3.3 – Remote payment -Secured electronic commerce

4 Requirements related to multiple payment

Cardholder Initiated Transaction

…

Data	CB2A authorisation field
…	
Electronic commerce transaction ~~security~~ authentication type	Field 59 type 0407

…

Subsequent Transactions

…

Data	CB2A authorisation field	CB2A Authorisation settings
…		
Electronic commerce transaction ~~security~~ authentication type of the initial transaction	Field 59 type 0407	
…		
Electronic commerce ~~security~~ authentication type of the initial transaction	Field 59 type 0420/ Electronic commerce transaction ~~security~~ authentication type	Copy of field 59 type 0407 of the initial transaction(*)
…		

…

8 Message descriptions

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
59	National data	C(2)	C(2)
…			
0407	Electronic commerce ~~security~~ authentication type	C(17)	.
…			
0413	Modified electronic commerce ~~security~~ authentication type	.	C(29)
…			
119	Reserved for national use	C(2)	.
…			
0022	3DS protocol version number	C(155)	.

N°	COMMENTS
…	
2	See list of types
3	Mandatory if available
…	
17	Mandatory for an electronic commerce debit transaction, mandatory if available fora refund
…	
29	Mandatory if available, otherwise absent
155	Mandatory if 3DS authentication

1327 – EDITORIAL CHANGES

Background:

Corrections and editorial changes to the 1.6.1 version

- ERT 43 is renamed.
- Oscar is replaced by nexo.

Implementation:

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

…

Data element	Field/Sub field
…	
~~Oscar~~ nexo Acceptance System identifier	115 type 0002
~~Oscar~~ nexo certificate	115 type 0003
~~Oscar~~ nexo data	115
~~Oscar~~ nexo PoS identifier	115 type 0001
…	

2.3.2 List by field number

…

N°	Type	Name	Format	
115		~~Oscar~~ nexo data	LLLVAR	b…255
…				
	0001	~~Oscar~~ nexo PoS identifier		ans..107
	0002	~~Oscar~~ nexo Acceptance System identifier		ans..71
	0003	~~Oscar~~ nexo certificate		ans..35
…				

2.3.3 Definition of data fields used

…

Field 59 **Format: LLLVAR b …255**

National data

…

TYPE = 0200:	*ERT (REGULATORY AND TECHNICAL ENVIRONMENT)*

Value	Description
…	
- Unattended payment:	
…	
43	~~Payment via an unattended vending machine with mandatory cardholder authentication~~Payment via an unattended terminal with differed payment
…	

…

Field 115 **Format: LLLVAR b …255**

~~Oscar~~ nexo **data**

☐ **Data type**_____**b2**

Type	Description	Repeatability
0001	~~Oscar~~ nexo PoS identifier	
0002	~~Oscar~~ nexo Acceptance System identifier	
0003	~~Oscar~~ nexo certificate	

…

Type = 0001:	**~~Oscar~~ nexo PoS identifier**

Data format: ans..107 Number of bytes transported: ..107

Identification of the ~~OSCar~~ nexo terminal.
This field includes ~~EPAS~~ nexo data elements from the ~~OSCar~~ nexo server (POIComponent = "TERM"): "Identification.ProviderIdentification", "Identification.Identification" and "Identification.SerialNumber", each separatedby an anti-slash ("\").

Type = 0002:	**~~Oscar~~ nexo Acceptance System identifier**

Data format: ans..71 Number of bytes transported:..71

Identification of the ~~OSCar~~ nexo terminal in the case of an integrated/distributed system.
This field includes ~~EPAS~~ nexo data elements from the ~~OSCar~~ nexo server (POIComponent = "SERV"):

"Identification.ProviderIdentification" and "Identification.Identification", each separated by an anti-slash ("\").

Type = 0003: ~~Oscar~~ nexo **certificate**

Data format: ans..35 Number of bytes transported:..35

Identification of the ~~OSCar~~ nexo ~~terminal~~ solution.
Reference of the ~~OSCar~~ nexo certificate assigned to the solution
This field contains the ~~EPAS~~ nexo data element "Assessment.Number" of the ~~OSCar~~ nexo application (POIComponent = "APLI").

Change to Volume 3.2 – Face-to-face payment / Unattended payment

7 Message descriptions

A: Payment autho. req. (EMV chip and contactless EMV chip): **0100**
B: Payment autho. request (magn. stripe and contactless magn. stripe): **0100**
C: Resp. to payment autho. req. (contact and contactless) : **0110**

N°	Definition	A	B	C
…				
115	~~Oscar~~ nexo data	C(2)	C(2)	.
0001	~~Oscar~~ nexo PoS identifier	C(3)	C(3)	.
0002	~~Oscar~~ nexo Acceptance System identifier	C(3)	C(3)	.
0003	~~Oscar~~ nexo certificate	C(3)	C(3)	.
…				

A: Proximity wallets payment authorization request: **0100**
B: Response to proximity wallets payment autho. request: **0100**

N°	Definition	A	B
…			
115	~~Oscar~~ nexo data	C(2)	.
0001	~~Oscar~~ nexo PoS identifier	C(3)	.
0002	~~Oscar~~ nexo Acceptance System identifier	C(3)	.
0003	~~Oscar~~ nexo certificate	C(3)	.
…			

A: Payment reversal request: **0400/0401**
B: Response to Payment reversal request: **0410**

N°	Definition	A	B
…			
115	~~Oscar~~ nexo data	C(2)	.
0001	~~Oscar~~ nexo PoS identifier	CQI(104)	.
0002	~~Oscar~~ nexo Acceptance System identifier	CQI(104)	.
0003	~~Oscar~~ nexo certificate	CQI(104)	.
…			

Change to Volume 3.3 – Remote payment -Secured electronic commerce

7 Message descriptions

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
…			
115	~~Oscar~~ nexo data	C(2)	.
0001	~~Oscar~~ nexo PoS identifier	C(3)	.
0002	~~Oscar~~ nexo Acceptance System identifier	C(3)	.
0003	~~Oscar~~ nexo certificate	C(3)	.
…			

A: Payment reversal request : **0400/0401**	**B:** Response to payment reversal request : **0410**

N°	Definition	A	B
…			
115	~~Oscar~~ nexo data	C(2)	.
0001	~~Oscar~~ nexo PoS identifier	CQI(104)	.
0002	~~Oscar~~ nexo Acceptance System identifier	CQI(104)	.
0003	~~Oscar~~ nexo certificate	CQI(104)	.
…			

1328 - NEW PRE-AUTHORISATION SERVICE

Background:

Alignment with MPE/MPA for the new pre-authorisation service out of reservation and rental context:

- the pre-authorisation duration and a new payment use case are needed,
- an authorisation request for additional charges is now managed for an unattended terminal.

Correction: ERT = 57 for 'reservation and rental' unattended payment (80 is used for attended payment).Editorial: Wording for function code 163 is standardised.

Implementation :

CHANGE IN VOLUME 2 - DATA FIELD DICTIONARY

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Pre-authorisation duration	119 type 0208
…	

2.3.2 List by field number

N°	Type	Name	Format	
119	0208	Pre-authorisation duration		n2

2.3.3. Definition of data fields used

…

Field 56 **Format: LLLVAR b …255**

Additional data

…

Type = 0028: PAYMENT USE CASE

…

Value	Description
07	Pre-authorisation out of reservation and rental context
0~~7~~8-99	RFU

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use.

☐ **Data type**

b2

Type	Description	Repeatability
…		
0208	Pre-authorisation duration	
…		

…

Type = 0208: PRE-AUTORISATION DURATION

Data format: n2 Number of bytes transported: 1

This indicates for how many days the pre-authorisation is valid.

…

Change to Volume 3.3 – Remote payment - secured electronic commerce

Requirements related to payment for ~~the reservation and rental of goods or services~~pre-authorisation

3.1 Authorisation request transaction related to remote payment

Typical values

- ~~field 22 positions 1 and 2 (PAN entry mode) = 01~~
- ~~field 59 type 0100 (Function code) = 101 (initial authorisation - estimated amount) or 163 (additional invoice)~~
- ~~field 59 type 0101 (Reason code) = 1655 in the initialisation message~~
- ~~field 59 type 0200 (ERT*) = 80 or 24 for a secured electronic commerce transaction~~
- ~~field 59 type 0800 (service attribute) = 2 or 3~~
- ~~field 47 type 24 (file number) of an additional invoice (function code = 163) must be equal to that in the initialrequest.~~

~~*Regulatory and Technical Environment (ERT)~~

Typical values for transaction with manual entry on an attended terminal:

Initial pre-authorisation :

- field 22 positions 1 and 2 (PAN entry mode) = 01 'Manual'
- field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment' or 07 'Pre-authorisation out of reservation and rental'
- field 59 type 0100 (Function code) = 101 (initial authorisation - estimated amount)
- field 59 type 0101 (Reason code) = 1655
- field 59 type 0200 (ERT*) = 80
- field 59 type 0800 (service attribute) = 2 'Pre-authorisation'

Additional charges :

- field 22 positions 1 and 2 (PAN entry mode) = 01 'Manual'
- field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment' or 07 'Pre-authorisation out of reservation and rental'
- field 59 type 0100 (Function code) = 163 (additional charges)
- field 59 type 0200 (ERT*) = 80
- field 59 type 0800 (service attribute) = 3 'Additional pre-authorisation'
- field 47 type 24 (file number) must be equal to that of the initial request
- field 47 type 99 (Original unique transaction identifier) must be equal to field 47 type 95 sentby the issuer in the response to the pre-authorisation request.

Typical values for additional charges on an unattended terminal:

- field 22 positions 1 and 2 (PAN entry mode) = 10 'Card on File'
- field 56 type 0028 (Payment use case) = 07 'Pre-authorisation out of reservation and rental'
- field 59 type 0100 (Function code) = 163 (additional charges)
- field 59 type 0200 (ERT*) = 57
- field 59 type 0800 (service attribute) = 3 'Additional pre-authorisation'
- field 47 type 24 (file number) must be equal to that of the initial request
- field 47 type 99 (Original unique transaction identifier) must be equal to field 47 type 95 sentby the issuer in the response to the pre-authorisation request.

Typical values for secured electronic commerce:

Initial pre-authorisation :

- field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment'
- field 59 type 0100 (Function code) = 101 (initial authorisation - estimated amount)
- field 59 type 0101 (Reason code) = 1655
- field 59 type 0200 (ERT*) = 24

Additional charges :

- field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment'
- field 59 type 0100 (Function code) = 163 (additional charges)
- field 59 type 0200 (ERT*) = 27
- field 47 type 24 (file number) must be equal to that of the initial request
- field 47 type 99 (Original unique transaction identifier) must be equal to field 47 type 95 sentby the issuer in the response to the pre-authorisation request.

*Regulatory and Technical Environment (ERT)

8 Message descriptions

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
119	Reserved for national use	C(2)	C(2)
…			
0208	Pre-authorisation duration	C(63)	.

No	Comment
…	
63	Mandatory if data element was provided to the system (parameters downloading), otherwise absent
…	

1335 – REATTEMPT INDICATOR

Background:

New data elements are created to allow acquirers to inform merchants that reattempt is possible or not when an authorisationrequest is declined.

Those data elements are populated by the acquirers' international gateway and may be modified by the acquirers.Reattempt is:

- not allowed during a frozen period,
- or allowed according to conditions (period and maximum number or reattempts).

Refer to '1685- v1.0 – Reattempt indicator review' in CB2A 1.6.4: 'Reattempt indicator' has been renamed 'Acceptor advice code'

Implementation:

CHANGE IN VOLUME 2 - DATA FIELD DICTIONARY

…

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Reattempt conditions	119 type 0803
Reattempt frozen period	119 type 0802
Reattempt indicator	119 type 0801
…	

2.3.2 List by field number

N°	Type	Name	Format	
119	0801	Reattempt indicator		n2
119	0802	Reattempt frozen period		n4
119	0803	Reattempt conditions		n6

…

2.3.3 Data fields description

…

Field 119	Format: LL2VAR b…999

Reserved for national use

☐ **Data type**_____**b2**

Type	Description	Repeatability
…		
0801	Reattempt indicator	
0802	Reattempt frozen period	
0803	Reattempt conditions	

…

Type = 0801: Reattempt indicator

Data format: n2 Number of bytes transported: 1

Use by acquirers to communicate to merchants the procedure to follow when an authorisation request is declined.

Values	Description
01	Obtain new information before the next transaction
02	Try again later
03	Never try again

Type = 0802: Reattempt frozen period

Data format: n4 Number of bytes transported: 2

Number of hours where reattempt is not allowed

Type = 0803: Reattempt conditions

Data format: n6 Number of bytes transported: 3

☐ Reattempt allowed duration_____ n4
☐ Maximum number of reattempts_____ n2

…

Change to Volume 3.2 – Face-to-face payment – Unattended payment

7 Message descriptions

A: Payment autho. req. (EMV chip and contactless EMV chip): **0100**
B: Payment autho. request (magn. stripe and contactless magn. stripe): **0100**
C: Resp. to **p**ayment autho. request (contact and and contactless): **0110**

N°	Definition	A	B	C
…				
119	Reserved for national use	C(2)	C(2)	C(2)
…			.	
0801	Reattempt indicator	.	.	C(3)
0802	Reattempt frozen period	.	.	C(160)
0803	Reattempt conditions	.	.	C(161)
…				

N°	Comment
3	Mandatory if available
…	
160	Mandatory if field 119 type 0801 is present and field 119 type 0803 is absent
161	Mandatory if field 119 type 0801 is present and field 119 type 0802 is absent
…	

…

Change to Volume 3.3 – Remote payment -Secured electronic commerce

7 Message descriptions

A: Authorisation request: **0100**
B: Response to authorization request: **0110**

N°	Definition	A	B
…			
119	Reserved for national use	C(2)	C(2)
…			.
0801	Reattempt indicator	.	C(3)
0802	Reattempt frozen period	.	C(160)
0803	Reattempt conditions	.	C(161)
…			

N°	Comment
3	Mandatory if available
…	
160	Mandatory if field 119 type 0801 is present and field 119 type 0803 is absent
161	Mandatory if field 119 type 0801 is present and field 119 type 0802 is absent
…	

1337 – NEW RESPONSE CODES

Background:

New response codes are created.

Implementation:

Change in volume 2 – Data field dictionary

2.3.3 Definition of data fields used

Field 39 **Format: an2**

Response code

Value	Description
…	
46	Closed account
65	Exceeds withdrawal frequency limit
6P	Verification data failed
75	PIN entries exceeded
78	Blocked, first used transaction from new cardholder, and card not properly unblocked
82	Negative online CAM, dCVV, iCVV, or CVV results Or Offline PIN authentication interrupted

…

CB2A 1.6.3 SEPTEMBER 2022

1452 – ECOMMERCE

Background:

Mastercard AN2941 Digital Remote Commerce Enhancements

Mastercard is introducing a new cryptogram type to support enhanced amount and merchant verification. To support the requirements above, Mastercard introduces a new subelement 003 'Remote Commerce Acceptor Identifier' in DE104.
This identifier may consist of merchant business website URL or reverse domain name.
A new data element 'Remote Commerce Acceptor Identifier' is needed in CB2A.

Electronic Commerce Authentication Type

Editorial changes: the wording is reviewed.

Electronic Commerce Authentication Type upgrade

In CB2A, downgrade is already managed but some schemes may also upgrade it. New values are needed for modified Electronic Commerce Authentication Type.
For Visa, the ECI to taken in account is the one that Visa sends in the authorisation response.

Electronic Commerce Security Level Indicator

For Mastercard, the SLI is provided in authorisation response message and must be sent in clearing.
The SLI is added.

3RI

Some data elements related to cardholder's authentication need to be populated in MITs with 3RI.

Visa Network Merchant-Initiated Transaction Service

It is a network solution that can help acquirers and their merchants to manage the transaction identifier lifecycle of merchant-initiated transactions. This service requests a purchase identifier. It's added to CB2A.

Visa: exemption status indicator

Authorisation request responses contain the exemption status (validated/honoured or failed validation/not honoured) for some authentication exemptions.

Visa Token Service

Visa identifies transactions eligible for token services in authorisation request response.
Acquirers are required to send the information in clearing transactions.

Implementation:

Change in volume 2 – Data field dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Authentication exemption status indicator	119 type 0017
…	
Extended Electronic Commerce Indicator	119 type 0016
…	
Purchase identifier	119 type 0042
Purchase identifier type	119 type 0041
…	
Remote commerce acceptor identifier	119 type 0028
…	
Transaction eligible for token services	119 type 0359

2.3.2 List by field number

N°	Type	Name	Format	
...		…		
119		Reserved for national use	LL2VAR	b…999
	…	…		
	0016	Extended Electronic Commerce Indicator		n3
	0017	Authentication exemption status indicator		an1
	…	…		
	0028	Remote commerce acceptor identifier		b…115
…				
	0041	Purchase identifier type		an1
	0042	Purchase identifier		an32
…				
	0359	Transaction eligible for token services		an1
…				

2.3.3 Definition of the data fields used

Field 59 **Format: LLLVAR b …255**

National data

…

➢ ***TYPE = 0407:*** ***ELECTRONIC COMMERCE AUTHENTICATION TYPE***

…

Values	Description
…	
20	Authentication cryptogram issued from a server
21	Authentication cryptogram issued from a XPay or token cryptogram with authentication delegated to device

…

➢ ***TYPE = 0413:*** ***MODIFIED ELECTRONIC COMMERCE AUTHENTICATION TYPE***

Data format: b1 Number of bytes transported: 1

Informs the acceptor and/or the CB acquirer that the security mode initially planned for the transaction has been changed.

Values	Description
09	~~Secured by any means other than those corresponding to the other values~~ No authentication cryptogram
20	Authentication cryptogram issued from a server
21	Authentication cryptogram issued from a XPay or token cryptogram with authentication delegated to device

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

❑ **Data type** _____ **b2**

Type	Description	Repeatability
…		
0016	Extended Electronic Commerce Indicator	
0017	Authentication exemption status indicator	
…		
0028	Remote commerce acceptor identifier	
…		
0041	Purchase identifier type	
0042	Purchase identifier	

Type	Description	Repeatability
…		
0359	Transaction eligible for token services	
…		

…

➢ TYPE = 0016: EXTENDED ELECTRONIC COMMERCE INDICATOR

Data format: n3 Number of bytes transported: 2

SLI (Security Level Indicator) in electronic commerce.

…

➢ TYPE = 0017: AUTHENTICATION EXEMPTION STATUS INDICATOR

Data format: an1 Number of bytes transported: 1

Indicates the status of the exemption.

…

➢ TYPE = 0028: REMOTE COMMERCE ACCEPTOR IDENTIFIER

Data format: b…115 Number of bytes transported: …115

This identifier may consist of part of merchant business website URL or reverse domain name which allows to perform the dynamic linking validation.

…

➢ TYPE = 0041: PURCHASE IDENTIFIER TYPE

Data format: an1 Number of bytes transported: 1

The following list is provided for example. Refer to schemes' rules:

Type	Meaning
0	Free text
1	Order number
3	Rental agreement number
4	Hotel folio number
5	Invoice number

➢ TYPE = 0042: PURCHASE IDENTIFIER

Data format: an32 Number of bytes transported: 32

Allows to uniquely identify a payment agreement using the same PAN or token under the same merchant and the same payment use case

…

➢ ***TYPE = 0359: TRANSACTION ELIGIBLE FOR TOKEN SERVICES***

Data format: an1 Number of bytes transported: 1

Allows the scheme to indicate whether the transaction is eligible for its token services

…

Volume 3.3 – Remote payment secured electronic commerce

4 Requirements related to multiple payment

Subsequent transactions

…

Data	CB2A Authorisation field	CB2A Authorisation settings
…		
DS transaction ID	56 type 0023 data element UUID applies to nomenclature 1 of the initial transaction	Transaction specific value for 3RI MIT
	Field 56 type 0046/ DS transaction ID	Copy of field 56 type 0023 data element UUID applies to nomenclature 1 of the initial transaction (*)
ACS transaction ID	56 type 0023 data element UUID applies to nomenclature 2 of the initial transaction	Transaction specific value for 3RI MIT
	Field 56 type 0046/ ACS transaction ID	Copy of field 56 type 0023 data element UUID applies to nomenclature 2 of the initial transaction (*)
Authentication merchant name	Field 56 type 0036	Transaction specific value for 3RI MIT
	Field 56 type 0046/ Merchant name	Copy of field 56 type 0036 of the initial transaction (*)
Authentication date	Field 56 type 0037	Transaction specific value for 3RI MIT
	Field 56 type 0046/ Authentication date	Copy of field 56 type 0037 of the initial transaction (*)
Authentication amount	Field 56 type 0038	Transaction specific value for 3RI MIT
	Field 56 type 0046/ Authentication amount	Copy of field 56 type 0038 of the initial transaction (*)
Cardholder authentication value of the current transaction	Field 59 type 0401	~~Absent~~Transaction specific value for 3RI MIT, otherwise absent
Electronic commerce transaction authentication type of the current transaction	Field 59 type 0407	~~Absent~~Transaction specific value for 3RI MIT, otherwise absent
…		
Electronic commerce cryptogram calculation method of the current transaction	Field 59 type 0411	Absent

Three-domain secure results of the current transaction	Field 59 type 0412	~~Absent~~Transaction specific value for 3RI MIT, otherwise absent
Three-domain secure results, others of the current transaction	Field 59 type 0419	~~Absent~~Transaction specific value for 3RI MIT, otherwise absent
…		

8 Message descriptions

A: Authorisation request : **0100**	**B:** Response to authorisation request : **0110**

N°	Definition	A	B
…			
59	Reserved for national use	C(2)	C(2)
…			
0416	Electronic Commerce Indicator	C(29)	C(163)
…			
119	Reserved for national use	C(2)	C(2)
…			
0016	Extended Electronic Commerce Indicator	.	C(163)
0017	Authentication exemption status indicator	.	C(164)
…			
0028	Remote commerce acceptor identifier	C(163)	.
…			
0041	Purchase identifier type	C(29)	.
0042	Purchase identifier	C(29)	.
…			
0359	Transaction eligible for token services		C(164)
…			

N°	Comments
…	
29	Mandatory if available, otherwise absent
…	
163	Mandatory for some international schemes
164	May be sent by some international schemes

1459 – RESPONSE CODES

Background:

Some new response codes are created. New response codes are identified in each payment context.

Implementation:

Change in volume 2 – Data field dictionary

2.3 Data field descriptions

…

Field 39 **Format: an2**

Response code

Value	Description
…	
46	Business specific error
…	
62	Restricted card
…	
93	Transaction cannot be completed-Violation of Law
…	
R0	Stop payment order
…	

…

Change in volume 3.2 – Face-to-face payment – Unattended payment

2. Response codes

…

2.1 Response codes for a face-to-face payment authorisation request

No.	Description
…	
46	Business specific error
62	Restricted card
6P	Verification data failed
77	Closed account
78	Blocked, first used or special condition—new cardholder not activated or card is temporarily blocked
82	Negative online CAM, dCVV, iCVV, or CVV results Or Offline PIN authentication interrupted
93	Transaction cannot be completed-Violation of Law
…	

…

2.2 Response codes for an unattended payment authorisation request

No.	Description
…	
46	Business specific error
62	Restricted card
6P	Verification data failed
77	Closed account
78	Blocked, first used or special condition—new cardholder not activated or card is temporarily blocked
82	Negative online CAM, dCVV, iCVV, or CVV results Or Offline PIN authentication interrupted
93	Transaction cannot be completed-Violation of Law
…	

…

Change in volume 3.3 – Remote payment – Secured electronic commerce

2. Response codes

2.1 Response codes for a remote payment authorisation request

No.	Description
…	
46	Business specific error
62	Restricted card
6P	Verification data failed
77	Closed account
78	Blocked, first used or special condition—new cardholder not activated or card is temporarily blocked
93	Transaction cannot be completed-Violation of Law
R0	Stop payment order
…	

…

CB2A 1.6.4 SEPTEMBER 2023

1672 - V1.0 - USE OF NEW ISO FIELDS

Context

The maximum size of the CB2A / 2AP Authorisation protocol fields is limited to 255 bytes.
This limitation causes problems due to the saturation of existing fields.
A new field with the same characteristics as a new CBAE field is created to manage data related to the customer.
ISO Field 122 is used with the ISO format (refer to change sheet 1599).

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Customer related data	123
…	

2.3.2 List by field number

N°	Type	Description	Format	
…				
123		~~See ISO 8583 standard~~ Customer related data	~~LLLVAR~~LL 2VAR	~~ans…255~~b …999
…				

1588 - V1.1 - FIELD 37

Context

Initially, the Field 37 contained a reference assigned by the Acquirer for a pre-authorisation.

This is no longer the case:

- a pre-authorisation is now identified by a file number (field 47 type 24 or 27 (refer to change sheet 1595)) assigned by the Acceptor and used to identify all associated transactions.
- The retrieval reference number is now left to the discretion of the Acceptor.

The conditions of presence of Field 37 need to be corrected.

November 2023, 27th: some acquirers manage the field as an internal reference in response messages. In responses, the conditions of presence remain the same than in the CB2A previous version.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.1 Data fields description

…

Field 37	Format: an12

Retrieval reference number

This data element is left to the discretion of the acceptor - acquirer relation. Once it has been defined, it can no longer be changed during the entire process (i.e. acceptance, authorisation, data capture).

…

Change in Volume 3.3 - Remote payment - Secured electronic commerce

Messages description

A: Authorisation request: **0100**
B: Response to Authorisation request: **0110**

N°	Definition	A	B
…			
37	Retrieval reference number	C(23)	~~C(79)~~ ~~CQ(104)~~ C(79)
…			

A: Payment reversal request: **0400/0401**
B: Response to payment reversal request: **0410**

N°	Definition	A	B
…			
37	Retrieval reference number	~~CRI(116)~~C(23)	~~FQ~~~~CQ(104)~~ FQ
…			

Comments

No	Comment
3	Mandatory if available
…	
23	~~Mandatory in case of pre-authorisation; if managed by the Acquirer; identical value for all related transactions~~ Mandatory if managed by the acceptor
…	
~~79~~	~~Mandatory in the response if present in the request (identical value to request), or if managed by the Acquirer, otherwise absent~~
104	Mandatory if present in the initial request
…	
116	Mandatory if present in the initial response
…	

1589 - V1.0 - EDITORIAL - 3DS V1 AND MASTERPASS SUNSET

Context

- Mastercard AN 5928 announced the sunset of all versions of Masterpass in the Europe region, effective 16 November 2021.
- 3DS V1 sunset

Implementation

Change in Common - Volume 2 - Data Field Dictionary

…

2.3.1 Data fields description

…

Field 59 **Format: LLLVAR b …255**

National data

…

TYPE = 0412: THREE-DOMAIN SECURE RESULTS

…

❑ ~~**Registration control**~~**Reserved for future use** _____ **b2**
~~Bitmap of events related to cardholder registration (VERes and CRRes messages). This data element is only significant only with 3D Secure v1 in the CB nomenclature.~~

~~Value~~	~~Description~~
~~Bit 16-11~~	~~Reserved for CB use~~
~~Bit 10~~	~~Card absent from directory service cache (CRRes)~~
~~Bit 9~~	~~Card absent from MasterCard cache (CRRes)~~
~~Bit 8~~	~~Card absent from Visa cache (CRRes)~~
~~Bit 7~~	~~Card registered (VERes - 'Y' type)~~
~~Bit 6~~	~~Timeout or VERes - type 'U" when calling ACS~~
~~Bit 5~~	~~Timeout or VERes - type 'U' when calling Visa Directory Server~~
~~Bit 4~~	~~Timeout or VERes - type "U" when calling MasterCard Directory Server~~
~~Bit 3~~	~~Card not registered in ACS (VERes -type 'N')~~
~~Bit 2~~	~~Card not registered in MasterCard (VERes -type 'N')~~
~~Bit 1~~	~~Card not registered in Visa (VERes -type 'N')~~

…

TYPE = 0414: ADDITIONAL ELECTRONIC COMMERCE DATA ELEMENTS

…

❑ **Type of additional data** _____ **an2**

Value	Description
~~01~~	~~MasterPass~~
02	Paylib

- **Value of additional data** _____ **ans..37**

  - ~~For additional data" = "01", the format is as follows:~~

~~Value~~	~~Description~~
~~101~~	~~MasterPass remote~~
~~102~~	~~MasterPass remote NFC Payment~~

  - ~~For additional data" = "02", the format is as follows:~~

…

TYPE = 0415: DIGITAL WALLET NAME

…

Value	Description
~~03~~	~~MasterPass~~
04	Paylib

1590 - V1.12 - ACCOUNT NAME INQUIRY

Context

A new Account Name Inquiry service is available for some schemes. Its goal is to help the Acceptor to verify the cardholder's information.

December 2024 02nd: the list of values of field 123 type 0025 must be corrected.

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Account name match decision	123 type 0026
Account name request result	123 type 0025
Account name verification type	123 type 0021
Account owner	123 type 0024
…	

2.3.2 List by field number

N°	Type	Description	Format	
…				
123		Customer related data	LL2VAR2	b…999
	0021	Account name verification type		an2
	0024	Account Owner		ans105
	0025	Account name request result		an2
	0026	Account name match decision		an8
…				

2.3.3 Data fields description

…

Field 123 **Format: LL2VAR b…999**

Customer related data

…

❒ Data type---------- b2

Type	Description	Repeatability
…		
0021	Account name verification type	
0024	Account Owner	
0025	Account Name Request Result	
0026	Account Name Match Decision	
…		

…

➢ ***TYPE = 0021: ACCOUNT NAME VERIFICATION TYPE***

Data format: an2 Number of bytes transported: 2

Value	Description
10	Funds transfer - Payee account owner name inquiry
11	Funds transfer - Payer account owner name inquiry

➢ ***TYPE = 0024: ACCOUNT OWNER***

Data format: ans105 Number of bytes transported: 105

❒ **Name, Given** _____ **ans35**

❒ **Name, Middle** _____ **ans35**

❒ **Name, Last** _____ **ans35**

➢ ***TYPE = 0025: ACCOUNT NAME REQUEST RESULT***

Data format: an2 Number of bytes transported: 2

Value	Description
AMP	Name match performed
BNP	Name match not performed
CNS	Name match not supported

➢ *TYPE = 0026: ACCOUNT NAME MATCH DECISION*

Data format: an8 Number of bytes transported: 8

❑ **Full name account match decision ---------- ---------- an2**

Value	Description
MA	Full match
PA	Partial match
NO	No match

❑ **Last name account match decision ---------- ---------- an2**

Value	Description
MA	Full match
PA	Partial match
NO	No match

❑ **Middle name account match decision ---------- ---------- an2**

Value	Description
MA	Full match
PA	Partial match
NO	No match

❑ **First name account match decision ---------- ---------- an2**

Value	Description
MA	Full match
PA	Partial match
NO	No match

…

Change in Volume 3.3 - Remote payment - Secured electronic commerce

Messages description

PAYMENT

A: Authorisation request: **0100**
B: Response to Authorisation request: **0110**

N°	Definition	A	B
123	Customer related data	C(2)	C(2)
…			
0021	Account name verification type	C(171)	.
0024	Account Owner	C(169)	.
0025	Account Name Request Result		C(170)

0026	Account Name Match Decision		C(170)

Comments

No	Comment
3	Mandatory if available
…	
169	Mandatory for the account name inquiry service
170	Can be set for the account name inquiry service
171	Mandatory for the account name inquiry service in funds transfer context

1591 - V1.0 - CHANGES TO THE ADDRESS VERIFICATION SERVICE

Context

The field 44 type CC has been introduced in 2017 for CB.
It may now also be used for the result of Visa Address Verification Service (AVS).

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.3 Data fields description

…

Field 44 **Format: LLVAR ans 25**

Additional response data

…

TYPE = CC: CARDHOLDER ADDRESS CHECKING INFORMATION

…

❒ Result of control----------ans1

Value	Label
…	
R	Retry (indeterminate outcome)

1592 - V1.1 - ACCOUNT VERIFICATION REQUEST TRANSACTIONS

Context

Account verification transactions are enhanced :

- to allow acquirers to send and issuers to receive the cardholder phone number and/or email address in account verification request.
- to allow issuers to send and acquirers to receive the phone number and/or email address verification result codes in account verification response.

Note : The account verification service also uses the existing Scheme Program Merchant Identifier data (field 119 type 0009) in the account verification request.

The ISO fields 123 is redefined (refer to change sheet 1672).

November 2023, 27th: the new fields are not mandatory in the same time.

Implementation

Change in Volume 2 -Dictionary

2.3.1. Alphabetic list

Data element	Field/Sub field
…	
Other Email Address	123 type 0032
Other Email Address Verification Result	123 type 0034
Other Phone Number	123 type 0031
Other Phone Number Verification Result	123 type 0033
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
123		Customer related data	LL2VAR	b…999
	0031	Other Phone Number		ans 16
	0032	Other Email Address		ans 99
	0033	Other Phone Number Verification Result		an 1
	0034	Other Email Address Verification Result		an 1
…				

Field 123 **Format: LL2VAR b…999**

Customer related data

❑ **Data type** _____ **b2**

Type	Description	Repeatability
…		
0031	Other Phone Number	
0032	Other Email Address	
0033	Other Phone Number Verification Result	
0034	Other Email Address Verification Result	
…		

➢ ***TYPE = 0031: OTHER PHONE NUMBER***

Data format: ans16 Number of bytes transported: 16

➢ ***TYPE = 0032: OTHER EMAIL ADDRESS***

Data format: ans99 Number of bytes transported: 99

➢ ***TYPE = 0033: OTHER PHONE NUMBER VERIFICATION RESULT***

Data format: an1 Number of bytes transported: 1

Value	Description
1	Verified
2	Failed
3	Not performed

➢ ***TYPE = 0034: OTHER EMAIL ADDRESS VERIFICATION RESULT***

Data format: an1 Number of bytes transported: 1

Value	Description
1	Verified
2	Failed
3	Not performed

…

Change in Volume 3.3 - Remote payment - Secured electronic commerce

Messages description

A: Authorisation request: **0100**
B: Response to Authorisation request: **01100**

N°	Definition	A	B
123	Customer related data	C(2)	C(2)
…			
0031	Other Phone Number	C(172)	.
0032	Other Email Address	C(172)	.
0033	Other Phone Number Verification Result	.	C(172)
0034	Other Email Address Verification Result	.	C(172)

Comments

No	Comment
2	See list of types
…	
172	~~**Mandatory**~~ **Optional** for the Account Verification Request service

1593 - V1.0 - BANK IDENTIFIER

Context

The CIB (Code InterBancaire or code banque) is delivered during the PSP compliance process by the ACPR. It identifies CB institutions, members and CB entities that are settled in France.

CB needs to identify institutions present in EEA for which the ACPR does not deliver a CIB.

Cartes Bancaires will still use the same data to identify those ones, but the existing CIB data needs to be renamed to reflect the change in the data governance.

Implementation

Change in Common - Volume 2 - Data Field Dictionary

Field 32	Format: LLVAR n…11

Acquiring institution identification code

…

- **Acquirer identifier** _____ **n6**
- ~~**Bank code**~~**Bank identifier** _____ **n5**

…

1595 - V1.0 - FILE NUMBER REVIEW

Context

The conditions of presence need to be calrified.

Implementation

Change in Volume 3.3 - Remote payment secured electronic commerce

8 Messages description

A: Authorisation request**: 0100**
B: Response to authorisation request **: 0110**

N°	Definition	A	B
47	Additional data - national	C(2)	C(2)
…			
24	File number	C(146)	CQ(146)

A: Payment reversal request**: 0400**
B: Response to payment reversal request **: 0410**

N°	Definition	A	B
47	Additional data - national	C(2)	C(2)
…			
24	File number	CQI(104)	FQ

Comments

N°	Comment
2	See list of types
…	
104	Mandatory if present in the initial request
…	
146	~~Mandatory for debit transaction in case of a pre-authorisation, additional invoice, cumulative amount; mandatory for a card-to-card funds transfer or Original Credit; mandatory if available for an unattended terminal with network access; mandatory if available for a credit~~ Mandatory for a debit transaction when (service attribute = 2-Pre-authorisation or 3-Additional charges or 5-Aggregation); mandatory for a card-to-card funds transfer or Original Credit; mandatory if available for a refund

1597 - V1.0 - MERCHANT PAYMENT GATEWAY ID

Context

A new data element is created to support identifying the Merchant Payment Gateway (MPG) used in authorization transactions.

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Merchant payment gateway ID	119 type 0204
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
119		Reserved for national use	LL2VAR2	b…999
	0204	Merchant payment gateway ID		n11
…				

2.3.3 Data fields description

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

…

❑ **Data type** _____ **an2**

Type	Description	Repeatability
…		
0204	Merchant payment gateway ID	
…		

…

➢ *TYPE = 0204 : MERCHANT PAYMENT GATEWAY ID*

Data format: n11 Number of bytes transported: 6

Identify the payment gateway that ultimately sends the transaction data to the Acquirer.

…

Change in Volume 3.3 - Remote payment secured electronic commerce

A: Authorisation request: **0100**
B: Response to Authorisation request: **0110**

N°	Definition	A	B
…			
119	Reserved for national use	C(2)	C(2)
0204	Merchant Payment Gateway ID	C(3)	
…			

N°	Comment
2	See conditions of types or sub-fields
3	Mandatory if available
…	

1598 - V1.~~1~~2 - RECURRING PAYMENT- DETAILS

Context

Two payment use cases are identified for recurring payment:

- Recurring subscription with fixed amounts and a limited duration
- Recurring subscription with fixed amounts and unspecified duration or variable amounts and a specified or unspecified duration

For some schemes, more precision about frequency and amount type are needed.

November 2023, 27th: the fields 119 type 0018 and 0019 are already used by CBAE for another topic. They are moved in field 119 type 1118 and 1119.

29th April 2024: Correction of number of bytes transported in field 119-1119

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Recurring - Details	119 type ~~00~~1118
Recurring - Indian cards	119 type ~~00~~1119
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
119		Reserved for national use	LL2VAR2	b…999
…				
	~~00~~1118	Recurring - Details		an2
	~~00~~1119	Recurring - Indian cards		structure
…				

2.3.3 Data fields description

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

…

❑ **Data type** _____ **b2**

Type	Description	Repeatability
…		
~~00~~1118	Recurring - Details	
~~00~~1119	Recurring - Indian cards	
…		

…

➢ ***TYPE = 1118: RECURRING - DETAILS***

Data format: an2 Number of bytes transported: 2

❒ Recurring frequency type _____ an1

Value	Description
F	Fixed
V	Variable

❒ Recurring amount nature _____ an 1

Value	Description
F	Fixed
V	Variable

➢ ***TYPE = 1119: RECURRING - INDIAN CARDS***

Data format: structure Number of bytes transported: ~~50~~44

❒ Recurring frequency _____ an 2

Value	Description
01	Daily
02	Twice weekly
03	Weekly
04	Ten days
05	Fortnightly
06	Monthly
07	Every two months

Value	Description
08	Trimester
09	Quarterly
10	Twice yearly
11	Annually
12	Unscheduled

❒ Registration reference number _____ an 35

❒ Maximum recurring payment amount _____ n 12

❒ Validation indicator _____ an 1

Value	Description
0	Not validated
1	Validated

…

Change in Volume 3.3 - Remote payment secured electronic commerce

8 Messages description

A: Authorisation request : **0100**
B: Response to authorisation request : **0110**

N°	Definition	A	B
…			
119	Reserved for national use	C(2)	C(2)
…			
~~00~~1118	Recurring - Details	C(3)	.
~~00~~1119	Recurring - Indian cards	C(3)	.
…			

A: Payment reversal request : **0400/0401**
B: Response to payment reversal request : **0410**

N°	Definition	A	B
…			
119	Reserved for national use	C(2)	C(2)
…			
~~00~~1119	Recurring - Indian cards	C(3)	.
…			

N°	Comment
2	See conditions of types or sub-fields
…	
3	Mandatory if available
…	

1599 - V1.0 - STANDARDIZATION OF DATA ELEMENTS

Context

Mastercard Reference:
AN 6022 Introduction and Standardization of Transaction Data Elements

Mastercard is aligning systems and preparing for future payments enhancements by standardizing requirements for key transaction data elements.

The service location data will be populated by the acceptor based on his geographical position.

ISO field 122 is used (refer to change sheet 1672).

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Acceptor additional contact information	119 type 1106
Acceptor customer service phone number	119 type 1104
Acceptor phone number	119 type 1105
Acceptor URL address	122
Service location address	119 type 1113
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
119		Reserved for national use	LL2VAR2	b…999
…				
119	1104	Acceptor customer service phone number		ans…16
119	1105	Acceptor phone number		ans…16
119	1106	Acceptor additional contact information		ans…25
119	1113	Service location address		ans29
…				
122		~~See ISO 8583 standard~~ Acceptor URL address	LLLVAR	ans…255
…				

2.3.3 Data fields description

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

…

❒ **Data type** _____ **b2**

Type	Description	Repeatability
…		
1104	Acceptor customer service phone number	
1105	Acceptor phone number	
1106	Acceptor additional contact information	
1113	Service location address	
…		

…

➢ ***TYPE = 1104 : ACCEPTOR CUSTOMER SERVICE PHONE NUMBER***

Data format: ans…16 Number of bytes transported: …16

➢ ***TYPE = 1105 : ACCEPTOR PHONE NUMBER***

Data format: ans…16 Number of bytes transported: …16

➢ ***TYPE =1106 : ACCEPTOR ADDITIONAL CONTACT INFORMATION***

Data format: ans…25 Number of bytes transported: …25

Acceptor additional phone number or contact name

➢ ***TYPE = 1113 : SERVICE LOCATION ADDRESS***

Data format: ans29 Number of bytes transported:29

- Service location city name ans13
- Service location country code ans3
- Service location subdivision code ans3
- Service location postal code ans10

…

Field 122 **Format: LLLVAR ans…255**

Acceptor URL address

Acceptor website address

…

Change in Volume 3.3 - Remote payment - Secured electronic commerce

Messages description

A: Authorisation request: **0100**
B: Response to Authorisation request: **01100**

N°	Definition	A	B
…			
119	Reserved for national use	C(2)	C(2)
…			
1104	Acceptor customer service phone number	C(3)	
1105	Acceptor phone number	C(3)	.
1106	Acceptor additional contact information	C(3)	.
1113	Service location address	C(166)	.
…			
122	Acceptor URL address	C(3)	
…			

Comments

N°	Comment
3	Mandatory if available
…	
166	May by set when the sale location is different from the merchant store location; otherwise absent

1600 - V1.1 - CARD PRODUCT IDENTIFIER

Context

Visa reference: GTLIG April 2023 - V1 Article 3.9

The card product identifier is already present in CBAE (Field 47 type 98). It is added in CB2A Authorisation and data capture to allow its sending to Visa clearing.

November 2023, 27th: the first position of the new field provides the nomenclature set in CBAE.

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Card product identifier	47 type 98
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
47		Additional data - national	LLLVAR	ans…255
…				
	98	Card product identifier		ans2…10
…				

2.3.3 Data fields description

…

Field 47 **Format: LLLVAR ans…255**

Additional data - national

…

- **Data type---------- ans2**

Value	Description	Repeatability
…		
98	Card product identifier	
…		

…

TYPE = 98: CARD PRODUCT IDENTIFIER

Data format: ans2…10 Number of bytes transported: 2…10

❑ ~~RUF~~Nomenclature _____ an1

❑ Product code _____ ans1..9

Depends on the network source

…

Change in Volume 3.3 - Remote payment - Secured electronic commerce

Messages description

PAYMENT

A: Authorisation request: **0100**
B: Response to Authorisation request: **01100**

N°	Definition	A	B
47	Reserved for national use	C(2)	C(2)
…			
98	Card product identifier	.	C(164)

Comments

No	Comment
3	Mandatory if available
…	
164	May be sent by some international schemes
…	

1616 - V1.1 - E-COMMERCE

Context

- In field 59 type 0420, the only mandatory data element is the “Extension of result of using a secured payment architecture” which is set from the field 59 type 0419 ‘Three-domain secure results, others’ of the CIT.
- Editorial changes: field 119-0001 is renamed to be clearer.
- ‘Requirements for multiple payments chapter’ is removed from CB2A. It is now in MPADS.
- Some conditions of presence need to be corrected.

November 2023, 27th: the NLSA (acceptance system logical number) is mandatory even for e-commerce solution.

Implementation
Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Merchant scheme tokenisation indicator	119 type 0001
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
119		Reserved for national use	LL2VAR2	b…999
	0001	Merchant scheme tokenisation indicator		an1
…				

2.3.3 Data fields description

…

Field 56 **Format: LLLVAR b…255**

Additional data

…

TYPE = 0012: MOBILE PAYMENT SOLUTION IDENTIFIER

…

❑ Identifier _____n2

Value	Description
…	
02	~~Android Pay~~Google Pay

…

Field 59 **Format: LLLVAR b…255**

National data

…

TYPE = 0420: ELECTRONIC COMMERCE DATA, INITIAL TRANSACTION

…

- Electronic commerce transaction authentication type _____ n2
  When absent, data is filled with zero.
- Cardholder authentication method _____ ans2
  When absent, data is filled with 2 spaces.
- Cardholder authentication value calculation method _____ an1
  When absent, data is filled with one space.
- Result of using a secured remote payment architecture _____ ansb4
  When absent, data is filled with one space.
- **Extension of result of using a secured payment architecture_____ ansb10**
- **Cardholder authentication value _____ b4..40**
  When absent, data is filled with four bytes of zero.

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

…

- **Data type _____ b2**

Type	Description	Repeatability
…		
0001	Merchant scheme tokenisation indicator	
…		

…

TYPE = 0001: MERCHANT SCHEME TOKENISATION INDICATOR

…

Change in Volume 3.3 - Remote payment secured electronic commerce

~~4. REQUIREMENTS RELATED TO MULTIPLE PAYMENT~~

CARDHOLDER INITIATED TRANSACTIONS

Except for mobile payment solutions based on EMV data elements, an Internet Cardholder Initiated Transaction (ERT* = 24) must include the data elements listed below, **subject to the presence condition**.

* ERT = Regulatory and Technical Environment

Data	CB2A Authorisation field
Cumulative total authorised amount	Field 54 type amount type 43
3DS protocol major version	Field 56 type 0022
Cryptogram entry date and GMT time	Field 56 type 0017
DS transaction ID	Field 56 type 0023 data element UUID applies to nomenclature 1
ACS transaction ID	Field 56 type 0023 data element UUID applies to nomenclature 2
Payment use case	Field 56 type 0028
Service attribute	Field 59 type 0800
Card-on-file action	Field 56 type 0029
Payment number	Field 56 type 0031
Total number of payments	Field 56 type 0032
Exemption indicator	Field 56 type 0033
Authentication merchant name	Field 56 type 0036
Authentication date	Field 56 type 0037
Authentication amount	Field 56 type 0038
Payment validity date	Field 56 type 0045
Function code	Field 59 type 0100
Card security code	Field 59 type 0300
Transaction identifier or cryptogram provided by the acceptor	Field 59 type 0400
Cardholder authentication value	Field 59 type 0401
Electronic commerce transaction authentication type	Field 59 type 0407
Cardholder authentication method used by the issuer	Field 59 type 0410
Electronic commerce cryptogram calculation method	Field 59 type 0411
Three-domain secure results	Field 59 type 0412
Additional electronic commerce data elements	Field 59 type 0414
Digital wallet name	Field 59 type 0415
Electronic commerce indicator	Field 59 type 0416
Digital wallet additional data	Field 59 type 0417
Wallet identifier	Field 59 type 0418
Three-domain secure results, others	Field 59 type 0419

~~**Note: "Recurring payment transactions not made in secured electronic commerce mode" (ERT* = 28) do not contain neither specific electronic commerce data elements nor payment case identification data.**~~

~~* ERT = Regulatory and Technical Environment~~

SUBSEQUENT TRANSACTIONS

Transactions subsequent to an initial electronic commerce transaction (ERT* = 27) must include the data elements listed below, **subject to the presence condition**.

* ERT = Regulatory and Technical Environment

Data	CB2 Authorisation field	CB2A Authorisation settings
Original unique transaction identifier	Field 47 type 99	Same value as in field 47 type 95 of the initial transaction response
Debit unique transaction identifier	Field 119 type 0047	Same value as in field 47 type 95 of the initial debit transaction response
Cumulative total authorised amount	Field 54 type amount 43	Transaction specific value
Payment use case	Field 56 type 0028	Same value as in field 56 type 0028 of the initial transaction
Card-on-file action	Field 56 type 0029	Absent
Payment number	Field 56 type 0031	Transaction specific value
Total number of payments	Field 56 type 0032	Same value as in field 56 type 0032 of the initial transaction
Exemption indicator	Field 56 type 0033	Transaction specific value
Payment validity date	Field 56 type 0045	Same value as in field 56 type 0045 of the initial transaction
DS transaction ID	56 type 0023 data element UUID applies to nomenclature 1 of the initial transaction	Transaction specific value for 3RI MIT
	Field 56 type 0046/ DS transaction ID	Copy of field 56 type 0023 data element UUID applies to nomenclature 1 of the initial transaction (*)
ACS transaction ID	56 type 0023 data element UUID applies to nomenclature 2 of the initial transaction	Transaction specific value for 3RI MIT
	Field 56 type 0046/ ACS transaction ID	Copy of field 56 type 0023 data element UUID applies to nomenclature 2 of the initial transaction (*)
Authentication merchant name	Field 56 type 0036	Transaction specific value for 3RI MIT
	Field 56 type 0046/ Merchant name	Copy of field 56 type 0036 of the initial transaction (*)
Authentication date	Field 56 type 0037	Transaction specific value for 3RI MIT
	Field 56 type 0046/ Authentication	Copy of field 56 type 0037

Data	CB2 Authorisation field	CB2A Authorisation settings
	date	of the initial transaction (*)
Authentication amount	Field 56 type 0038	Transaction specific value for 3RI MIT
	Field 56 type 0046/ Authentication amount	Copy of field 56 type 0038 of the initial transaction (*)
Cardholder authentication value of the current transaction	Field 59 type 0401	Transaction specific value for 3RI MIT, otherwise absent
Electronic commerce transaction authentication type of the current transaction	Field 59 type 0407	Transaction specific value for 3RI MIT, otherwise absent
Cardholder authentication method used by the issuer of the current transaction	Field 59 type 0410	Absent
Electronic commerce cryptogram calculation method of the current transaction	Field 59 type 0411	Absent
Three-domain secure results of the current transaction	Field 59 type 0412	Transaction specific value for 3RI MIT, otherwise absent
Three-domain secure results, others of the current transaction	Field 59 type 0419	Transaction specific value for 3RI MIT, otherwise absent
Cardholder authentication value of the initial transaction	Field 59 type 0420/ Cardholder authentication value	Copy of field 59 type 0401 of the initial transaction(*)
Electronic commerce authentication type of the initial transaction	Field 59 type 0420/ Electronic commerce transaction authentication type	Copy of field 59 type 0407 of the initial transaction(*)
Cardholder authentication method of the initial transaction	Field 59 type 0420/ Cardholder authentication method	Copy of field 59 type 0410 de la transaction initiale(*)
Electronic commerce cryptogram calculation method of the initial transaction	Field 59 type 0420/ Cardholder authentication value calculation method	Copy of field 59 type 0411 of the initial transaction(*)
Result of using the secure remote payment architecture of the initial transaction	Field 59 type 0420/ Result of using a secured remote payment architecture	Copy of field 59 type 0412 of the initial transaction(*)
Extension of the result of the secure payment architecture of the initial transaction	Field 59 type 0420/ Extension of result of using a secured payment architecture	Copy of field 59 type 0419 of the initial transaction(*)

(*) If a data element is not significant, it is filled with the pad character specific to the format of the data element.

"Recurring payment transactions not made in secured electronic commerce mode" (ERT* = 28) do not contain neither specific electronic commerce data elements nor payment case identification data.

* ERT = Regulatory and Technical Environment

8 Messages description

A: Authorisation request: **0100**
B: Response to Authorisation request: **0110**

N°	Definition	A	B
…			
59	National data	C(2)	C(2)
…			
0203	Acceptance system logical number	~~XSC(63)XS~~	FQ
0300	Card security code	~~C(130)~~X	C(12)
…			
0400	Transaction identifier or cryptogram supplied by the acceptor	~~C(99)~~C(12)	.
…			
0407	Electronic commerce authentication type	C(17)	.
…			
0412	Three-domain secure results	C(102)	.
…			
119			
0001	Merchant scheme tokenisation indicator	C(3)	
…			

Comments

N°	Comment
…	
3	Mandatory if available
…	
12	Must be absent
…	
17	Mandatory for an electronic commerce debit ~~transaction~~ CIT, mandatory for MIT with 3RI authentication, mandatory if available for a CIT refund~~,~~
…	
63	Mandatory if data element was provided to the system (parameters downloading), otherwise absent
…	
99	Mandatory if available and if field 59 type 0407 = 20
…	
102	Mandatory for a debit transaction if ~~e-commerce transaction security type = 20~~ EMV 3DS was used, mandatory if available for a refund,
…	
130	Mandatory unless additional invoice
…	

1648 - V1.0 - PRE-AUTHORISATION DEDICATED CHAPTERS REMOVAL

Context
Pre-authorisation dedicated chapters are removed from CB2A. They are moved to MPE, MPA, MPADS.

Implementation

Change in Common - Volume 3.2 - Face-to-Face payment - Unattended payment

~~3. REQUIREMENTS RELATED TO PAYMENT FOR THE RESERVATION AND RENTAL OF GOODS OR SERVICES~~

3.1 AUTHORISATION REQUEST TRANSACTION FOR FACE-TO-FACE PAYMENT

The purpose of this transaction is to request an authorisation for face-to-face payment.

The response to this authorisation request provides approval or the reason for decline.

Typical values:

- field 22 position 1 and 2 (PAN entry mode) <> 01
- field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment' or 07 'Pre-authorisation out of reservation and rental'
- field 59 type 0100 (Function code) = 101 'Original authorisation - estimated amount'
- field 59 type 0101 (Reason code) = 1655 'Pre-authorisation request'
- field 59 type 0200 (ERT*) = 80
- field 59 type 0800 (service attribute) = 2 'Pre-authorisation'

*Regulatory and Technical Environment (ERT)

~~3.2 AUTHORISATION REQUEST TRANSACTION FOR UNATTENDED PAYMENT~~

~~The purpose of this transaction is to request an authorisation for unattended payment.~~

~~The response to this authorisation request provides approval or the reason for decline.~~

~~**Typical values:**~~

- ~~field 22 position 1 and 2 (PAN entry mode <> 01 and <> 10~~
- ~~field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment' or 07 'Pre-authorisation out of reservation and rental'~~
- ~~field 59 type 0100 (Function code) = 101 'Original authorisation - estimated amount'~~
- ~~field 59 type 0101 (Reason code) = 1655 'Pre-authorisation request'~~
- ~~field 59 type 0200 (ERT*) = 57~~
- ~~field 59 type 0800 (service attribute) = 2 'Pre-authorisation'~~

~~*Regulatory and Technical Environment (ERT)~~

Change in Common - Volume 3.3 - Remote payment - Secured electronic commerce

~~3. REQUIREMENTS RELATED TO PAYMENT FOR THE RESERVATION AND RENTAL OF GOODS OR SERVICES~~

3.1 AUTHORISATION REQUEST TRANSACTION FOR REMOTE PAYMENT

The purpose of this transaction is to request an authorisation for remote payment.
The response to this authorisation request provides approval or the reason for decline.

Message type identifier:

- Request: 0100
- Response: 0110

Typical values for transactions with manual entry on an attended terminal:

Initial pre-authorisation :

- field 22 positions 1 and 2 (PAN entry mode) = 01 'Manual'
- field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment' or 07 'Pre-authorisation out of reservation and rental'
- field 59 type 0100 (Function code) = 101 (initial authorisation - estimated amount)
- field 59 type 0101 (Reason code) = 1655
- field 59 type 0200 (ERT*) = 80
- field 59 type 0800 (service attribute) = 2 'Pre-authorisation'

Additional charges :

- field 22 positions 1 and 2 (PAN entry mode) = 01 'Manual'
- field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment' or 07 'Pre-authorisation out of reservation and rental'
- field 59 type 0100 (Function code) = 163 (additional charges)
- field 59 type 0200 (ERT*) = 80
- field 59 type 0800 (service attribute) = 3 'Additional pre-authorisation'
- field 47 type 24 (file number) must be equal to that of the initial request
- field 47 type 99 (Original unique transaction identifier) must be equal to field 47 type 95 sent by the issuer in the response to the pre-authorisation request.

Typical values for additional charges on an unattended terminal:

- field 22 positions 1 and 2 (PAN entry mode) = 10 'Card on File'
- field 56 type 0028 (Payment use case) = 07 'Pre-authorisation out of reservation and rental'
- field 59 type 0100 (Function code) = 163 (additional charges)
- field 59 type 0200 (ERT*) = 57
- field 59 type 0800 (service attribute) = 3 'Additional pre-authorisation'
- field 47 type 24 (file number) must be equal to that of the initial request
- field 47 type 99 (Original unique transaction identifier) must be equal to field 47 type 95 sent by the issuer in the response to the pre-authorisation request.

Typical values for secured electronic commerce:

Initial pre-authorisation :

- field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment'
- field 59 type 0100 (Function code) = 101 (initial authorisation - estimated amount)

- field 59 type 0101 (Reason code) = 1655
- field 59 type 0200 (ERT*) = 24

Additional charges :

- field 56 type 0028 (Payment use case) = 06 'Reservation and rental payment'
- field 59 type 0100 (Function code) = 163 (additional charges)
- field 59 type 0200 (ERT*) = 27
- field 47 type 24 (file number) must be equal to that of the initial request
- field 47 type 99 (Original unique transaction identifier) must be equal to field 47 type 95 sent by the issuer in the response to the pre-authorisation request.

* Regulatory and Technical Environment (ERT)

~~3.2 INFORMATION REQUEST~~

~~The purpose of this transaction is to request information about a PAN.~~

~~Message type identifier:~~

- ~~Request: 0100~~
- ~~Response: 0110~~

~~Typical values:~~

- ~~field 4 (Amount) = 0~~
- ~~field 59 type 0100 (Function code) = 108 (information request)~~
- ~~field 59 type 0101 (Reason code) = 1655~~
- ~~field 59 type 0200 (ERT*) = 80~~
- ~~field 59 type 0800 (service attribute) = 2~~

~~*Regulatory and Technical Environment (ERT)~~

1660 - V1.0 - EDITORIAL CLARIFICATION ABOUT ITP

Context

Clarification about ITP

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
~~ITP PA (Point of interaction terminal application identifier)~~ POI Components Identifier (ex ITP PA)	59 type 0215
…	
~~ITP SA (Acceptance system terminal application identifier)~~ Acceptance System Components Identifier (ex ITP SA)	59 type 0201
…	

2.3.2 List by field number

N°	Type	Description	Format	
…				
59		National data	LLLVAR	b…255
…				
	0201	~~ITP SA (Acceptance system terminal application identifier)~~ Acceptance System Components Identifier (ex ITP SA)		n12
…				
	0215	~~ITP PA (Point of interaction terminal application identifier)~~ POI Components Identifier (ex ITP PA)		n12
…				

…

2.3.3 Data fields description

…

Field 59 **Format: LLLVAR b…255**

National data

…

❒ Data type---------- b2

Type	Description	Repeatability
	CB specific data	
…		
0201	~~ITP SA (Acceptance system terminal application identifier)~~ Acceptance System Components Identifier (ex ITP SA)	
…		
0215	~~ITP PA (Point of interaction terminal application identifier)~~ POI Components Identifier (ex ITP PA)	
…		

…

➢ ***TYPE = 0201: ~~ITP SA (ACCEPTANCE SYSTEM TERMINAL APPLICATION IDENTIFIER)~~ ACCEPTANCE SYSTEM COMPONENTS IDENTIFIER (EX ITP SA)***

…

➢ ***TYPE = 0215: ~~ITP PA (POINT OF INTERACTION TERMINAL APPLICATION IDENTIFIER)~~ POI COMPONENTS IDENTIFIER (EX ITP PA)***

…

Change in Volume 3.3 - Remote payment - Secured electronic commerce

Messages description

REMOTE PAYMENT/SECURED ELECTRONIC COMMERCE

A: Authorisation request: **0100**
B: Response to authorization request: **0100**

N°	Definition	A	C
59	National data	C(2)	C(2)
…			
0201	~~ITP SA (Acceptance system terminal application identifier)~~ Acceptance System Components Identifier (ex ITP SA)	XS	FQ
…			
0215	~~ITP PA (Point of interaction terminal application identifier)~~ POI Components Identifier (ex ITP PA)	C(3)	FQ
…			

…

A: Payment reversal request : **0400/0401**
B: Response to payment reversal request: **0410**

N°	Definition	A	B
59	National data	C(2)	C(2)
…			
0201	~~ITP SA (Acceptance system terminal application identifier)~~ Acceptance System Components Identifier (ex ITP SA)	XQI	.
…			
0215	~~ITP PA (Point of interaction terminal application identifier)~~ POI Components Identifier (ex ITP PA)	CQI(104)	.
…			

…

Comments

No	Comment
2	See list of types
…	
3	Mandatory if available
…	
104	Mandatory if present in the initial request
…	

1663 - V1.~~1~~2 - NEW CUSTOMER PATH

Context

From MPE 6.4.1, some multiple payment use cases are allowed with a face-to-face CIT :

- For the CIT, the terminal transaction date is required.
- The MIT keep the same ERT but may now also come from face-to-face or unattended payment. The service attribute allows to identify face-to-face or unattended CIT.
- The authentication date is sent also for MIT following a face-to-face or unattended CIT.

22nd July 2024:

- Some elements related to the initial transaction are not significant for face-to-face CIT. A clarification is needed.
- The payment use case must be set for a multiple payment. Conditions of presence need to be updated.

3rd February 2025: payment number, total number of payments and payment validity date may also be sent in a face-to-face CIT initiating a multiple payment.

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
~~Additional electronic commerce transaction data~~Additional data - Initial transaction	56 type 0046
…	

2.3.2 List by field number

N°	Type	Description	Format	
…				
56		National data	LLLVAR	b…255
…				
	0046	~~Additional electronic commerce transaction data~~Additional data - Initial transaction		n12
…				

2.3.3 Data fields description

…

Field 56 **Format: LLLVAR b…255**

National data

…

TYPE = 0046: ADDITIONAL DATA - INITIAL TRANSACTION ~~ELECTRONIC COMMERCE~~

…

~~Electronic commerce~~ Data for the initial transaction of a multiple payment. These data elements may be requested in transactions subsequent to the initial transaction.

- **3DS protocol major version** _____ **n2**

When absent (for instance, for a face-to-face CIT), data is filled with zero.

- **ACS transaction ID** _____ **ans36**

When absent (for instance, for a face-to-face CIT), data is filled with spaces.

- DS transaction ID _____ ans36

When absent (for instance, for a face-to-face CIT), data is filled with spaces.

- **Authentication merchant name** _____ **ans40**
- **Authentication date** _____ **n14**
- Authentication amount _____ n12

…

Field 59 **Format: LLLVAR b…255**

National data

…

TYPE = 0200: ERT (REGULATORY AND TECHNICAL ENVIRONMENT)

…

Value	Description
…	
Remote payment	
…	
~~27~~	~~Internet, subsequent transaction~~
~~28~~	~~Recurring payment via another form of order~~
…	
Acceptor Initiated Transaction	
27	AIT (after Internet or face-to-face or unattended payment CIT)
28	AIT (other cases)

Value	Description
…	

…

➢ ***TYPE = 0800:-SERVICE ATTRIBUTE***

…

Value	Description
…	
3	Additional ~~pre-authorisation~~ charges
4	Acceptor Initiated Transaction following a face-to-face or an unattended CIT
…	
7	~~Multiple payment, other payment~~ Acceptor Initiated Transaction following an internet CIT
…	

…

Change in Volume 3.3 - Remote payment - Secured electronic commerce

Messages description

REMOTE PAYMENT/SECURED ELECTRONIC COMMERCE

A: Authorisation request: **0100**
B: Response to authorization request: **0100**

N°	Definition	A	C
56	Additional data	C(2)	C(2)
…			
0046	Additional data - initial transaction ~~electronic commerce~~	C(3)	.
…			

…

Comments

No	Comment
2	See list of types
…	
3	Mandatory if available
…	

1666 - V1.0 - CORRECTION OF FIELD 42 DESCRIPTION

Context

The description is wrong since the first version of CB2A in English in March 2019. It needs to be corrected.

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.3 Data fields description

…

Field 42

Card acceptor identification code

Transports the content of envelope ~~41~~42 provided during a parameter downloading.

…

1668 - V1.0 - REVISION OF RESPONSE CODE A1

Context

A clarification is added about response code A1 ‘Soft decline’ to indicate that the issuer requires a 3DS with challenge.

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.3 Data fields description

…

Field 39

Response code

Value	Description
…	
A1	Soft decline (electronic commerce only), 3DS with challenge required
…	

…

1671 - V1.0 - REVISION OF FIELD 56

Context

Field 56 has a maximum length of 255. However, this field contains many subtypes. The overall length of this field may exceed the maximum value. Some data elements are moved to field 123 (refer to change sheet 1672)..

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Cardholder address	~~56 type 0006~~ 123 type 0006
Cardholder postcode	~~56 type 0008~~ 123 type 0008
Delivery address	~~56 type 0009~~ 123 type 0009
IP address	~~56 type 0010~~ 123 type 0010
…	

2.3.2 List by field number

N°	Type	Description	Format	
…				
56		Additional data	LLLVAR	b…255
…				
	~~0006~~	~~Cardholder address~~		~~ansp..40~~
	~~0008~~	~~Cardholder postcode~~		~~ansp..10~~
	~~0009~~	~~Delivery address~~		~~ans80~~
	~~0010~~	~~IP address~~		~~ans4..45~~
…				
123		Customer related data	LL2LVAR	b…999
…				
	0006	Cardholder address		ansp..40
	0008	Cardholder postcode		ansp..10
	0009	Delivery address		ans80
	0010	IP address		ans4..45

…				

2.3.3 Data fields description

…

Field 56 **Format: LLLVAR b…255**

National data

…

❒ Data type---------- b2

Type	Description	Repeatability
	CB specific data	
…		
~~0006~~	~~Cardholder address~~	
~~0008~~	~~Cardholder postcode~~	
~~0009~~	~~Delivery address~~	
~~0010~~	~~IP address~~	
…		

…

~~***TYPE = 0006: CARDHOLDER ADDRESS***~~

~~Data format: ansp..40 Number of bytes transported: ..40~~

~~Cardholder address.~~

~~***TYPE = 0008: CARDHOLDER POSTCODE***~~

~~Data format: ansp..10 Number of bytes transported: ..10~~

~~Cardholder postcode.~~

~~***TYPE = 0009: DELIVERY ADDRESS***~~

~~Data format: ans80 Number of bytes transported: 80~~

~~Delivery address for the order.~~

~~The address has the following fields: number and street name, postcode and country. The fields are separated by asterisks.~~

~~***TYPE = 0010: IP ADDRESS***~~

~~Data format: ans4…45~~ ~~Number of bytes transported: 4…45~~

~~Cardholder IP address.~~

~~The two address formats are the following:~~

- ~~IPv4 is represented in decimal notation with four numbers between 0 and 255, separated by points. For example, 5.10.255.1~~
- ~~IPv6 is represented by eight groups of four hexadecimal digits, each group representing 16 bits (two bytes). The groups are separated by colons (:).~~

  ~~For example, IPv6: 2019: 0d8e: 113a: 1111: 0101: 8a2e: 0370: 7334~~

…

Field 123 **Format: LL2VAR b…999**

Reserved for national use

❑ **Data type** _____ **b2**

Type	Description	Repeatability
	CB specific data	
…		
0006	Cardholder address	
0008	Cardholder postcode	
0009	Delivery address	
0010	IP address	
…		

TYPE = 0006: CARDHOLDER ADDRESS

Data format: ansp..40 Number of bytes transported: ..40

Cardholder address.

TYPE = 0008: CARDHOLDER POSTCODE

Data format: ansp..10 Number of bytes transported: ..10

Cardholder postcode.

TYPE = 0009: DELIVERY ADDRESS

Data format: ans80 Number of bytes transported: 80

Delivery address for the order.

The address has the following fields: number and street name, postcode and country. The fields are separated by asterisks.

TYPE = 0010: IP ADDRESS

Data format: ans4…45 Number of bytes transported: 4…45

Cardholder IP address.

The two address formats are the following:

- IPv4 is represented in decimal notation with four numbers between 0 and 255, separated by points. For example, 5.10.255.1
- IPv6 is represented by eight groups of four hexadecimal digits, each group representing 16 bits (two bytes). The groups are separated by colons (:).

  For example, IPv6: 2019: 0d8e: 113a: 1111: 0101: 8a2e: 0370: 7334

Change in Volume 3.3 - Remote payment - Secured electronic commerce

Messages description

REMOTE PAYMENT/SECURED ELECTRONIC COMMERCE

A: Authorisation request: **0100**
B: Response to authorization request: **0100**

N°	Definition	A	B
56	Additional data	C(2)	C(2)
…			
~~0006~~	~~Cardholder address~~	~~C(3)~~	~~.~~
~~0008~~	~~Cardholder postcode~~	~~C(3)~~	~~.~~
~~0009~~	~~Delivery address~~	~~C(3)~~	~~.~~
~~0010~~	~~IP address~~	~~C(3)~~	~~.~~
…			
123	Customer related data	C(2)	C(2)
…			
0006	Cardholder address	C(3)	.
0008	Cardholder postcode	C(3)	.
0009	Delivery address	C(3)	.
0010	IP address	C(3)	.
…			

…

Comments

No	Comment
2	See list of types
…	
3	Mandatory if available
…	

1685 - V1.0 - REATTEMPT INDICATOR REVIEW

Context

For some schemes, the Issuer may indicate that the card number should not be stored in a Card-On-File (for instance, non-reloadable prepaid card and consumer single-use virtual card). The 'reattempt indicator' is used to inform the Acceptor.

Implementation

Change in Common - Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
~~Reattempt indicator~~Acceptor advice code	119 type 0801
…	

2.3.2 List by field number

N°	Type	Description	Format	
…				
119		Reserved for national use	LL2VAR	b…999
…				
	0801	~~Reattempt indicator~~Acceptor advice code		n2
…				

2.3.3 Data fields description

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

…

❒ Data type---------- b2

Type	Description	Repeatability
	EMV specific data	
…		
0801	~~Reattempt indicator~~Acceptor advice code	
…		

…

➢ *TYPE = 0801: ~~REATTEMPT INDICATOR~~ ACCEPTOR ADVICE CODE*

…

Value	Description
…	
04	Do not store the card number in Card-On-File
…	

Change in Volume 3.2 - Face-to-face payment - Unattended payment Messages description

PAYMENT

A: Payment autho. req. (EMV chip and contactless EMV chip) : **0100**
B: Payment autho. request (magn. stripe and contactless magn. stripe): **0100**
C: Resp. to payment autho. req. (contact and contactless) : **0110**

N°	Definition	A	B	C
…				
119	Reserved for national use	C(2)	C(2)	C(2)
…				
0801	~~Reattempt indicator~~Acceptor advice code	.	.	C(3)

Comments

N°	Comment
…	
3	Mandatory if available
…	

Change in Volume 3.3 - Remote payment secured electronic commerce
8 Messages description

A: Authorisation request: **0100**
B: Response to Authorisation request: **0110**

N°	Definition	A	B
…			
119			
…			
0801	~~Reattempt indicator~~Acceptor advice code	.	C(3)
…			

Comments

N°	Comment
…	
3	Mandatory if available
…	

CB2A 1.6.5 SEPTEMBER 2024

1810 - V1.0 - DATA FOR CLEARING

Context

Some data sent by schemes in authorisation response need to be present in clearing messages. There are added in CB2A.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Response data for clearing	119 type 1001
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
119		Reserved for national use	LL2VAR	b…999
	1001	Response data for clearing	Structure	…30
…				

2.3.3 Data fields description

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

❑ **Data type** _____ **b2**

Type	Description	Repeatability
…		
1001	Response data for clearing	
…		

…

TYPE = 1001: RESPONSE DATA FOR CLEARING

Data format: structure Number of bytes transported: …30

- ❒ Account funding source _____ an1
- ❒ Applied Authorization Characteristics Indicator _____ an1
- ❒ Applied Market-Specific Data Identifier _____ an1
- ❒ Program Downgrade Reason Code _____ an2
- ❒ Validation code _____ an4
- ❒ Expense threshold _____ an1
- ❒ Merchant program - Merchant Verification Value _____ n10
- ❒ Applied cardholder ID method _____ an1
- ❒ Reserved for future use _____ b0…14

…

Change in volume 3.3 – Remote payment – Secured electronic payment

8 Messages description

8.1 Authorisation request and response

X: Mandatory C: Conditional F: Optional .: Non-processed field S: Message specific value Q: Same value as in the request QI: Same value as in the initial request RI: Same value as in the initial response

A: Authorisation request : **0100**	**B**: Response to authorization request : **0110**

N°	Definition	A	B
…			
119	Reserved for national use	.	C(2)
…			
1001	Response data for clearing	.	C(3)
…			

8.3 Comments

N°	Comment
…	
2	See list of types
…	
3	Mandatory if available
…	

1816 - V1.0 - NON PAYMENT CARD VALIDITY CHECK

Context

A card validity check may be sent to initiate a multiple payment but may also be sent without associated payment.
In the first case, all subsequent transactions must be linked to the card validity check via its identifier. In the second, subsequent transactions are not allowed. A new payment use case is created to identify this case.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.3 Data fields description

…

Field 56	Format: LLLVAR b … 255

Additional data

…

TYPE = 0028: PAYMENT USE CASE

…

Value	Description
…	
90	Non payment card validity check
…	

1818 - V1.0 - PAYMENT BY LINK INDICATOR

Context

The payment by link allows merchants to accept online payments without the need for a website. They just have to send a link for instance via SMS, e-mail to their clients.
A new indicator allows to identify this kind of payment.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Payment by link indicator	119 type 0050
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
119		Reserved for national use	LL2VAR	b…999
	0050	Payment by link indicator		an1
…				

2.3.3 Data fields description

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

❑ **Data type** _____ **b2**

Type	Description	Repeatability
…		
0050	Payment by link indicator	
…		

…

TYPE = 0050: PAYMENT BY LINK INDICATOR

Data format: an1 Number of bytes transported: 1

Type	Description	Repeatability
…		
1	Payment by link	
…		

…

Change in volume 3.3 – Remote payment – Secured electronic payment

8 Messages description

8.1 Authorisation request and response

X: Mandatory C: Conditional F: Optional .: Non-processed field S: Message specific value Q: Same value as in the request QI: Same value as in the initial request RI: Same value as in the initial response

A: Authorisation request : **0100** **B**: Response to authorization request : **0110**

N°	Definition	A	B
…			
119	Reserved for national use	.	C(2)
…			
0050	Payment by link indicator	C(3)	.
…			

8.3 Comments

N°	Comment
…	
2	See list of types
…	
3	Mandatory if available
…	

1819 - V1.0 - VMAAS ELIGIBILITY

Context

Visa implements a new issuer service, the Visa Multiple-Account Access Service (VMAAS), to allow cardholders to manage multiple funding sources into a single credential. Prior to an authorization request, acceptors may send a VMAAS product eligibility inquiry message to determine the account funding source (AFS) and product ID preselected by the cardholder for the transaction. This inquiry message is a card validity check with a dedicated processing code.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.3 Data fields description

…

Field 3 **Format: n6**

Processing code

- **Transaction description** **n2**

Type	Description	Repeatability
…		
39	VMAAS eligibility inquiry	
…		

…

1823 - V1.0 - DEBIT FUNDS TRANSFER

Context

Some fields are added for debit funds transfer.

January 2025, 29th: The Agreement ID is an indicator "B2B program ID" to indicate a payment performed in the context of the B2B virtual payments program when applied. Each value is or will be associated with interchange rate. The indicator just informs acquirers and issuers about the applicable interchange rate applicable later in the payment chain. It is populated by Visa in response messages. The conditions of presence need to be corrected.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

…

Data element	Field/Sub field
…	
Additional funds transfer data	118
AFT - Application type identifier	118 type 1001
AFT - Nomenclature	118 type 1
Agreement ID	118 type 1007
…	
Amount, transaction fee	28
…	
Customer language	118 type 1005
Customer language message	118 type 1006
Funding source	118 type 1002
Label or message	118 type 1004
Payee/Account identifier type code	118 type 3022
Payee/Account identifier value	118 type 3021
Payee/Account number	118 type 3014
Payee/Account number type	118 type 3019
Payee/Address	118 type 3005
Payee/BIC	118 type 3012
Payee/Birth date	118 type 3011
Payee/City	118 type 3007
Payee/Country	118 type 3009
Payee/First name	118 type 3002
Payee/ID country code	118 type 3017

Data element	Field/Sub field
Payee/ID number	118 type 3016
Payee/Identity document	118 type 3015
Payee/Identity Sub Type	118 type 3020
Payee/Last name	118 type 3004
Payee/Middle name	118 type 3003
Payee/Nationality	118 type 3018
Payee/PAN	118 type 3001
Payee/Phone	118 type 3010
Payee/Postcode	118 type 3006
Payee/State or province	118 type 3008
Payee/Token authentication factor A	118 type 3023
Payer/Account identifier type code	118 type 2022
Payer/Account identifier value	118 type 2021
Payer/Account number	118 type 2014
Payer/Account number type	118 type 2019
Payer/Address	118 type 2005
Payer/BIC	118 type 2012
Payer/Birth date	118 type 2011
Payer/City	118 type 2007
Payer/Country	118 type 2009
Payer/First name	118 type 2002
Payer/IBAN	118 type 2013
Payer/ID country code	118 type 2017
Payer/ID number	118 type 2016
Payer/Identity document	118 type 2015
Payer/Identity Sub Type	118 type 2020
Payer/Last name	118 type 2004
Payer/Middle name	118 type 2003
Payer/Nationality	118 type 2018
Payer/PAN	118 type 2001
Payer/Participant identifier	118 type 2000
Payer/Phone	118 type 2010
Payer/Postcode	118 type 2006
Payer/State or province	118 type 2008
Transfer reason	118 type 1003
Unique transfer reference	118 type 1000

2.3.2 List by field number

…

N°	Type	Name	Format	
…				
28		Amount, transaction fee		an9
…				
118		~~See ISO 8583 standard~~ Additional funds transfer data	LL~~L~~2VAR	~~ans…255~~ b…999
	0001	AFT - Nomenclature		an1
	1000	Unique transfer reference		ans1…35
	1001	AFT - Application type identifier		an1…3
	1002	Funding source		n2
	1003	Transfer reason		ans1…35
	1004	Label or message		ans1…65
	1005	Customer language		ans2…3
	1006	Customer language message		b1…50
	1007	Agreement ID		ans4
	2000	Payer/Participant identifier		ans1…35
	2001	Payer/PAN		n…19
	2002	Payer/First name		ans1…35
	2003	Payer/Middle name		ans1…35
	2004	Payer/Last name		ans1…35
	2005	Payer/Address		ans1…50
	2006	Payer/Postcode		ans1…10
	2007	Payer/City		ans1…25
	2008	Payer/State or province		ans2…3
	2009	Payer/Country		ans3
	2010	Payer/Phone		ans1…20
	2011	Payer/Birth date		n8
	2012	Payer/BIC		ans1…11
	2013	Payer/IBAN		an…34
	2014	Payer/Account number		an1…35
	2015	Payer/Identity document		an…4
	2016	Payer/ID number		ans…35
	2017	Payer/ID country code		ans3
	2018	Payer/Nationality		ans3
	2019	Payer/Account number type		n2

N°	Type	Name	Format	
	2020	Payer/Identity Sub Type		an2
	2021	Payer/Account identifier value		ans34
	2022	Payer/Account identifier type code		an2
	3001	Payee/PAN		n…19
	3002	Payee/First name		ans1…35
	3003	Payee/Middle name		ans1…35
	3004	Payee/Last name		ans1…35
	3005	Payee/Address		ans1…50
	3006	Payee/Postcode		ans1…10
	3007	Payee/City		ans1…25
	3008	Payee/State or province		ans2…3
	3009	Payee/Country		ans3
	3010	Payee/Phone		ans1…20
	3011	Payee/Birth date		n8
	3012	Payee/BIC		ans1…11
	3014	Payee/Account number		ans1…35
	3015	Payee/Identity document		ans…4
	3016	Payee/ID number		ans…35
	3017	Payee/ID country code		ans3
	3018	Payee/Nationality		ans3
	3019	Payee/Account number type		n2
	3020	Payee/Identity Sub Type		an2
	3021	Payee/Account identifier value		ans34
	3022	Payee/Account identifier type code		an2
	3023	Payee/Token authentication factor A		b1

2.3.3 Data fields description

…

Field 28 **Format : an9**

Amount, transaction fee

This field contains a signed amount (structure:x+n8).

…

Field 118 **Format : LL2VAR b...999**

Additional funds transfer data

Data type _____ b2

Value	Description	Repeatability
0001	AFT - Nomenclature	
1000	Unique transfer reference	
1001	AFT - Application type identifier	
1002	Funding source	
1003	Transfer reason	
1004	Label or message	
1005	Customer language	
1006	Customer language message	
1007	Agreement ID	
2000	Payer/Participant identifier	
2001	Payer/PAN	
2002	Payer/First name	
2003	Payer/Middle name	
2004	Payer/Last name	
2005	Payer/Address	
2006	Payer/Postcode	
2007	Payer/City	
2008	Payer/State or province	
2009	Payer/Country	
2010	Payer/Phone	
2011	Payer/Birth date	
2012	Payer/BIC	
2013	Payer/IBAN	
2014	Payer/Account number	
2015	Payer/Identity document	
2016	Payer/ID number	
2017	Payer/ID country code	
2018	Payer/Nationality	
2019	Payer/Account number type	
2020	Payer/Identity Sub Type	
2021	Payer/Account identifier value	
2022	Payer/Account identifier type code	

Value	Description	Repeatability
3001	Payee/PAN	
3002	Payee/First name	
3003	Payee/Middle name	
3004	Payee/Last name	
3005	Payee/Address	
3006	Payee/Postcode	
3007	Payee/City	
3008	Payee/State or province	
3009	Payee/Country	
3010	Payee/Phone	
3011	Payee/Birth date	
3012	Payee/BIC	
3014	Payee/Account number	
3015	Payee/Identity document	
3016	Payee/ID number	
3017	Payee/ID country code	
3018	Payee/Nationality	
3019	Payee/Account number type	
3020	Payee/Identity Sub Type	
3021	Payee/Account identifier value	
3022	Payee/Account identifier type code	
3023	Payee/Token authentication factor A	

Data length _____b2

Data value.

➢ ***TYPE = 0001: AFT - NOMENCLATURE***

Data format: an 1 Number of bytes transported: 1

Indicates the network involved in the coding of data in the field.

Value	Meaning
1	CB
2	Visa
3	MasterCard

➢ TYPE = 1000: UNIQUE TRANSFER REFERENCE

Data format: ans 1..35 Number of bytes transported: 1..35

Contains a unique reference to identify the funds transfer transaction.

➢ TYPE = 1001: AFT - APPLICATION TYPE IDENTIFIER

Data format: an 1…3 Number of bytes transported: 1..3

Identifies the type of application that initiated the transaction.

Refer to each scheme appendices.

➢ TYPE = 1002: SOURCE OF THE FUNDS

Data format: n 2 Number of bytes transported: 1

Source of the funds.

➢ TYPE = 1003: TRANSFER REASON

Data format: ans 1..35 Number of bytes transported: 1..35

Reason for the transfer.

➢ TYPE = 1004: LABEL OR MESSAGE

Data format: ans 1..65 Number of bytes transported: 1..65

Text or a message.

➢ TYPE = 1005: CUSTOMER LANGUAGE

Data format: ans 2..3 Number of bytes transported: 2..3

Language used by the customer.

➢ TYPE = 1006: CUSTOMER LANGUAGE MESSAGE

Data format: b 1..50 Number of bytes transported: 1..50

Message in the customer's language.

➢ TYPE = 1007: AGREEMENT ID

Data format: ans4 Number of bytes transported: 4

➢ TYPE = 2000: PAYER/PARTICIPANT IDENTIFIER

Data format: ans 1..35 Number of bytes transported: 1..35

Payer's participant identifier at the Payer side.

➢ TYPE = 2001: PAYER/PAN

Data format: n..19 Number of bytes transported: ..10

Payer's PAN.

Note : When the PAN has an odd number of positions, the first position is equal to 0 and that the first useful position is the second one.

➢ TYPE = 2002: PAYER/FIRST NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payer's first name.

➢ TYPE = 2003: PAYER/MIDDLE NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payer's middle name.

➢ TYPE = 2004: PAYER/LAST NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payer's last name.

➢ TYPE = 2005: PAYER/ADDRESS

Data format: ans 1..50 Number of bytes transported: 1..50

Payer's address.

➢ TYPE = 2006: PAYER/POSTCODE

Data format: ans 1..10 Number of bytes transported: 1..10

Payer's postal code.

➢ TYPE = 2007: PAYER/CITY

Data format: ans 1..25 Number of bytes transported: 1..25

Payer's city.

➢ TYPE = 2008: PAYER/STATE OR PROVINCE

Data format: ans 2..3 Number of bytes transported: 2..3

Payer's state or province.

➢ TYPE = 2009: PAYER/COUNTRY

Data format: ans 3 Number of bytes transported: 3

Payer's country.

➢ TYPE = 2010: PAYER/PHONE

Data format: ans 1..20 Number of bytes transported: 1..20

Payer's phone number.

➢ TYPE = 2011: PAYER/BIRTH DATE

Data format: n 8 Number of bytes transported: 4

Payer's birth date (MMDDYYYY format).

➢ TYPE = 2012: PAYER/BIC

Data format: ans 1..11 Number of bytes transported: 1..11

International Bank Identifier Code for the Payer's bank account.

➢ TYPE = 2013: PAYER/IBAN

Data format: an..34 Number of bytes transported: ..34

International Bank Account Number for the Payer's bank account.

➢ TYPE = 2014: PAYER/ACCOUNT NUMBER

Data format: an 1…35 Number of bytes transported: 1..35

Payer's account number.

➢ TYPE = 2015: PAYER/IDENTITY DOCUMENT

Data format: ans ..4 Number of bytes transported: ..4

Type of identity document used to identify the Payer.

➢ TYPE = 2016: PAYER/ID NUMBER

Data format: ans ..35 Number of bytes transported: ..35

Number of the identity document used to identify the Payer.

➢ TYPE = 2017: PAYER/ID COUNTRY CODE

Data format: ans 3 Number of bytes transported: 3

Issuing country code of the identity document used to identify the Payer.

➢ TYPE = 2018: PAYER/NATIONALITY

Data format: ans 3 Number of bytes transported: 3

Nationality of the Payer.

➢ TYPE = 2019: PAYER/ACCOUNT NUMBER TYPE

Data format: n2 Number of bytes transported: 1

Account number type of the payer.

➢ TYPE = 2020 : PAYER/IDENTITY SUB TYPE

Data format: an 2 Number of bytes transported: 2

➢ TYPE = 2021 : PAYER/ACCOUNT IDENTIFIER VALUE

Data format: ans34 Number of bytes transported: 34

➢ TYPE = 2022 : PAYER/ACCOUNT IDENTIFIER TYPE CODE

Data format: an2 Number of bytes transported: 2

➢ TYPE = 3001: PAYEE/PAN

Data format: n..19 Number of bytes transported: ..10

Payee's PAN.

Note : When the PAN has an odd number of positions, the first position is equal to 0 and that the first useful position is the second one.

➢ TYPE = 3002: PAYEE/FIRST NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payee’s first name.

➢ TYPE = 3003: PAYEE/MIDDLE NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payee’s middle name.

➢ TYPE = 3004: PAYEE/LAST NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payee’s last name.

➢ TYPE = 3005: PAYEE/ADDRESS

Data format: ans 1..50 Number of bytes transported: 1..50

Payee's address.

➢ TYPE = 3006: PAYEE/POSTCODE

Data format: ans 1..10 Number of bytes transported: 1..10

Payee's postal code.

➢ TYPE = 3007: PAYEE/CITY

Data format: ans 1..25 Number of bytes transported: 1..25

Payee's city.

➢ TYPE = 3008: PAYEE/STATE OR PROVINCE

Data format: ans 2..3 Number of bytes transported: 2..3

Payee's state or province.

➢ TYPE = 3009: PAYEE/COUNTRY

Data format: ans 3 Number of bytes transported: 3

Payee's country.

➢ TYPE = 3010: PAYEE/PHONE

Data format: ans 1..20 Number of bytes transported: 1..20

Payee's phone number.

➢ TYPE = 3011: PAYEE/BIRTH DATE

Data format: n 8 Number of bytes transported: 4

Payee's birth date (MMDDYYYY format).

➢ TYPE = 3012: PAYEE/BIC

Data format: ans 1..11 Number of bytes transported: 1..11

International Bank Identifier Code for the payee's bank account.

➢ TYPE = 3014: PAYEE/ACCOUNT NUMBER

Data format: an 1.35 Number of bytes transported: 1..35

Payee's account number.

➢ TYPE = 3015: PAYEE/IDENTITY DOCUMENT

Data format: ans ..4 Number of bytes transported: ..4

Type of identity document used to identify the payee.

➢ TYPE = 3016: PAYEE/ID NUMBER

Data format: ans ..35 Number of bytes transported: ..35

Number of the identity document used to identify the payee.

➢ TYPE = 3017: PAYEE/ID COUNTRY CODE

Data format: ans 3 Number of bytes transported: 3

Issuing country code of the identity document used to identify the payee.

➢ TYPE = 3018: PAYEE/NATIONALITY

Data format: ans 3 Number of bytes transported: 3

Nationality of the payee.

➢ TYPE = 3019: PAYEE/ACCOUNT NUMBER TYPE

Data format: n2 Number of bytes transported: 1

Account number type of the payee.

➢ TYPE = 3020 : PAYEE/IDENTITY SUB TYPE

Data format: an 2 Number of bytes transported: 2

➢ TYPE = 3021 : PAYEE/ACCOUNT IDENTIFIER VALUE

Data format: ans34 Number of bytes transported: 34

➢ TYPE = 3022 : PAYEE/ACCOUNT IDENTIFIER TYPE CODE

Data format: an2 Number of bytes transported: 2

➢ TYPE = 3023 : PAYEE/TOKEN AUTHENTICATION FACTOR A

Data format: b1 Number of bytes transported: 1

…

Change in volume 3.3 – Remote payment – Secured electronic payment

8 Messages description

8.1 Authorisation request and response

X: Mandatory C: Conditional F: Optional .: Non-processed field S: Message specific value Q: Same value as in the request QI: Same value as in the initial request RI: Same value as in the initial response

A: Authorisation request : **0100**	**B**: Response to authorization request : **0110**

N°	Definition	A	B
…			
28	Amount, transaction fee	C(29)	.
…			
118	Additional data for funds transfer	C(2)	.
0001	AFT - Nomenclature	C(108)	.
1000	Unique transfer reference	C(108)	.
1001	AFT - Application type identifier	C(108)	.
1002	Funding source	C(108)	.
1003	Transfer reason	C(108)	.
1004	Label or message	C(108)	.
1005	Customer language	C(108)	.
1006	Customer language message	C(108)	.
1007	Agreement ID	~~C(108)~~	C(108)
2000	Payer/Participant identifier	C(108)	.
2001	Payer/PAN	C(108)	.
2002	Payer/First name	C(108)	.
2003	Payer/Middle name	C(108)	.
2004	Payer/Last name	C(108)	.
2005	Payer/Address	C(108)	.
2006	Payer/Postcode	C(108)	.
2007	Payer/City	C(108)	.
2008	Payer/State or province	C(108)	.
2009	Payer/Country	C(108)	.
2010	Payer/Phone	C(108)	.
2011	Payer/Birth date	C(108)	.
2012	Payer/BIC	C(108)	.
2013	Payer/IBAN	C(108)	.
2014	Payer/Account number	C(108)	.
2015	Payer/Identity document	C(108)	.
2016	Payer/ID number	C(108)	.
2017	Payer/ID country code	C(108)	.
2018	Payer/Nationality	C(108)	.

N°	Definition	A	B
2019	Payer/Account number type	C(108)	.
2020	Payer/Identity Sub Type	C(108)	.
2021	Payer/Account identifier value	C(108)	.
2022	Payer/Account identifier type code	C(108)	.
3001	Payee/PAN	C(108)	.
3002	Payee/First name	C(108)	.
3003	Payee/Middle name	C(108)	.
3004	Payee/Last name	C(108)	.
3005	Payee/Address	C(108)	.
3006	Payee/Postcode	C(108)	.
3007	Payee/City	C(108)	.
3008	Payee/State or province	C(108)	.
3009	Payee/Country	C(108)	.
3010	Payee/Phone	C(108)	.
3011	Payee/Birth date	C(108)	.
3012	Payee/BIC	C(108)	.
3014	Payee/Account number	C(108)	.
3015	Payee/Identity document	C(108)	.
3016	Payee/ID number	C(108)	.
3017	Payee/ID country code	C(108)	.
3018	Payee/Nationality	C(108)	.
3019	Payee/Account number type	C(108)	.
3020	Payee/Identity Sub Type	C(108)	.
3021	Payee/Account identifier value	C(108)	.
3022	Payee/Account identifier type code	C(108)	.
3023	Payee/Token authentication factor A	C(108)	.

8.3 Comments

N°	Comment
…	
2	See list of types
…	
29	Mandatory if available, otherwise absent
…	
108	May be present. Presence conditions are specific to each scheme.
…	

1831 - V1.01 - DYNAMIC CURRENCY CONVERSION DATA

Context

There is no FrenchSys specification about Dynamic Currency Conversion. However, some private applications already exist or will be soon on the field.
ISO 8583 data elements used for DCC should be used. They are added in CB2A.

January 2025, the 9th : the data element containing the pre-conversion POI amount is modified to be aligned with the CBAE 5.06 data element.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Amount, cardholder billing	6
…	
Conversion rate, cardholder billing	10
…	
Currency code, cardholder billing	51
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
6		~~See ISO 8583 standard~~Amount, cardholder billing	n	12
…				
10		~~See ISO 8583 standard~~Conversion rate, cardholder billing	n	8
…				
51		~~See ISO 8583 standard~~Currency code, cardholder billing	n	3
…				

…

2.3.3 Data fields description

…

Field 6 **Format: n12**

Amount, cardholder billing

Amount billed to the cardholder, stated in the currency of the cardholder account country.

This amount is stated in the smallest units of the currency specified in field 51.

…

Field 10 **Format: n8**

Conversion rate, cardholder billing

Factor used to convert values between the transaction amount and the amount billed to the cardholder.

The transaction amount (field 4) is multiplied by the cardholder billing conversion rate to obtain the cardholder billing amount (field 6).

…

Field 51 **Format: n3**

Currency code, cardholder billing

Specifies the currency used to express the amount defined in field 6. This is the currency code of the cardholder account's country.

The codes are listed in the ISO 4217 standard document.…

…

Field 54 **Format: LLLVAR an…120**

Additional amounts

…

❑ **Amount type** _____ **b2**

Type	Description	Repeatability
…		
~~5860~~	~~Amount, POI~~ **POI Amount before DCC conversion**	
…		

…

Change in volume 3.3 – Remote payment – Secured electronic payment

8 Messages description

8.1 Authorisation request and response

X: Mandatory C: Conditional F: Optional .: Non-processed field S: Message specific value Q: Same value as in the request QI: Same value as in the initial request RI: Same value as in the initial response

A: Authorisation request : **0100**	**B**: Response to authorization request : **0110**

N°	Definition	A	B
…			
6	Amount, cardholder billing	C(100)	FQ
…			
10	Conversion rate, cardholder billing	C(100)	FQ
…			
51	Currency code, cardholder billing	C(100)	FQ
…			
54	Additional amounts	C(118)	.
…			
~~5~~**860**	~~**Amount, POI**~~ **POI Amount before DCC conversion**	C(100)	FQ
…			

8.2 Reversal request and response

X: Mandatory C: Conditional F: Optional .: Non-processed field S: Message specific value Q: Same value as in the request QI: Same value as in the initial request RI: Same value as in the initial response

A: Payment reversal request: **0400/0401**	**B**: Response to payment reversal request : **0410**

N°	Definition	A	B
…			
6	Amount, cardholder billing	C(100)	FQ
…			
10	Conversion rate, cardholder billing	C(100)	FQ
…			
51	Currency code, cardholder billing	C(100)	FQ
…			

8.3 Comments

N°	Comment
…	
2	See list of types
…	

N°	Comment
100	May be used by a private Dynamic Currency Conversion application
…	
118	Mandatory if at least one of the following amount types is present
…	

1846 - V1.0 - MAXIMUM CLEARING DATE

Context

Some schemes populate the expected clearing date in authorisation responses. This date is added in CB2A and may also be set by the Acquirer or the PSP before sending the response to the merchant.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.1 Alphabetical list

Data element	Field/Sub field
…	
Maximum clearing date	119 type 0083
…	

2.3.2 List by field number

N°	Type	Name	Format	
…				
119		Reserved for national use	LL2VAR	b…999
	0083	Maximum clearing date		n4
…				

2.3.3 Data fields description

…

Field 119 **Format: LL2VAR b…999**

Reserved for national use

❑ **Data type** _____ **b2**

Type	Description	Repeatability
…		
0083	Maximum clearing date	
…		

…

TYPE = 0083: MAXIMUM CLEARING DATE

Data format: n4 Number of bytes transported: 2

Date the scheme's rules require the transaction to be cleared.

Julian date: format YDDD with Y from 0 to 9 and DDD from 001 to 366.

…

Change in volume 3.3 – Remote payment – Secured electronic payment

8 Messages description

8.1 Authorisation request and response

X: Mandatory C: Conditional F: Optional .: Non-processed field S: Message specific value Q: Same value as in the request QI: Same value as in the initial request RI: Same value as in the initial response

A: Authorisation request : **0100**	**B**: Response to authorization request : **0110**

N°	Definition	A	B
…			
119	Reserved for national use	.	C(2)
…			
0083	Maximum clearing date	.	C(3)
…			

8.3 Comments

N°	Comment
…	
2	See list of types
…	
3	Mandatory if available
…	

1847 - V1.0 - AUTHENTICATION TYPE REVIEW

Context

The authentication type 'Frictionless in stand-in mode' must not be used any more.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.3 Data fields description

…

Field 59 **Format: LLLVAR b … 255**

National data

…

TYPE = 0419: THREE-DOMAIN SECURE RESULTS, OTHERS

…

❑ **3DS authentication type**_____ **an2**

Value	Description
…	
~~FD~~	~~Frictionless in stand-in mode~~
…	

1852 - V1.0 - BYPASS OF VALIDITY DATE CONTROL

Context

Some schemes have issued cards without validity date. When a card has no expiry date, in protocols, the data element ‘expiry date’ is set with ‘0000’.

Implementation

Change in volume 2 – Data Field Dictionary

2.3.3 Data fields description

Field 14	Format: n4 AAMM

Date, expiration

When present, this field must contain a significant value with YYMM structure or 0000 (for cards without validity date).

1854 - V1.0 - CARD VALIDITY CHECK WITH ANTICIPATED AMOUNT

Context

Some schemes allow merchants to indicate a future transaction amount in card validity check requests before initiating a multiple payment. A new type amount is created in additional amounts data element.

Implementation

Change in Volume 2 - Data Field Dictionary

2.3.2 Data fields description

…

Field 39 **Format: an2**

Response code

…

Value	Description
…	
Z5	Valid account but amount is not supported
…	

…

Field 54 **Format: LLLVAR an…120**

Additional amounts

…

❑ **Amount type** _____ **b2**

Type	Description	Repeatability
…		
90	Amount, anticipated	
…		

…

Change in volume 3.3 – Remote payment – Secured electronic payment

8 Messages description

8.1 Authorisation request and response

X: Mandatory C: Conditional F: Optional .: Non-processed field S: Message specific value Q: Same value as in the request QI: Same value as in the initial request RI: Same value as in the initial response

A: Authorisation request : **0100**	**B**: Response to authorization request : **0110**

N°	Definition	A	B
…			
54	Additional amounts	C(118)	.
…		.	.
90	Amount, anticipated	C(174)	.
…			

8.3 Comments

N°	Comment
…	
2	See list of types
…	
118	Mandatory if at least one of the following amount types is present
…	
174	May be present for a card validity check, otherwise absent
…	

…

Change in volume 3.3 – Remote payment and secured e-commerce payment

21. Response codes for a remote paylent authorisation request

…

Value	Meaning
…	
Z5	Valid account but amount is not supported
…	

2016 - V1.0 - CONDITIONS OF PRESENCE OF FIELD 59 TYPE 0100

Context:

The conditions of presence of field 59 type 0100 need to be clarified.

Implementation:

Change in Volume 3.3 – Remote payment and secured e-commerce payment

…

6.1 Authorisation request and response

A: Payment authorisation request : **0100/0101** **B**: Response to authorisation request **0110**

N°	Definition	A	B
59	National use	C(2)	C(2)
…			
0100	Function code	C(98)	FQ
…			

N°	Comment
2	See conditions of types or sub-fields
…	
98	Mandatory for a debit transaction in case of: • pre-authorisation, incremental authorisation, additional ~~invoice~~ charges, no-show transaction or ~~cumulative amount~~ aggregated payments, • mandatory for a card validity check, • mandatory if available for a refund transaction
…	

CB2A Authorisation
Acceptor to Acquirer Protocol
(2AP Authorisation)

Volume 2 - Data fields dictionary
-
Updates from v1.6.1 to 1.6.5

Table of contents

1 DATA FIELD DICTIONARY

1.1 DATA FORMAT AND CODING

1.1.1 Notation conventions

Notation	Description
… LL2 …	length coded on two bytes and between 1 and 999 bytes

Table 2: Data length notations

…

1.1.1.1 Variable-length fields

Variable-length fields are preceded by ~~a~~ one byte or 2 bytes indicating the field length. This length is coded in binary. Depending on the field type, a variable-length field can be from 1 to 255 or 999 bytes long, up to the maximum length of the field format.

…

B. "Binary" TLV fields

Each data element is coded as follows:

- "T": 2 binary bytes
- "L": 1 binary byte (maximum length 255) or two binary bytes (maximum length 999),
- "V": the number of bytes is defined by the length. The binary format is implicit for each type. The description may specify several fixed-length data elements.

1.2 DATA FIELD DESCRIPTIONS

1.2.1 Alphabetical list

Data element	Field/Sub field
…	
3DS protocol version number	119 type 0022
…	
Acceptance System Components Identifier (ex ITP SA)	59 type 0201
…	
Acceptor additional contact information	119 type 1106

Data element	Field/Sub field
Acceptor advice code	119 type 0801
…	
Acceptor customer service phone number	119 type 1104
Acceptor phone number	119 type 1105
Acceptor URL address	122
Account name match decision	123 type 0026
Account name request result	123 type 0025
Account name verification type	123 type 0021
Account owner	123 type 0024
…	
Additional data – Initial transaction	56 type 0046
…	
~~Additional electronic commerce transaction data~~	~~56 type 0046~~
Additional funds transfer data	118
…	
AFT - Application type identifier	118 type 1001
AFT - Nomenclature	118 type 1
Agreement ID	118 type 1007
…	
Amount, cardholder billing	6
…	
Authentication exemption status indicator	119 type 0017
…	41
Card application Identifier (AID)	55 type 9F06
~~Application Identifier (AID)~~	~~55 type 9F06~~
…	55 type DF81
Card data storage	55 type DF3F
…	
Cardholder address	~~56~~ 123 type 0006
…	
Card product identifier	47 type 98
~~Contactless device~~	~~55 type DF86~~
Conversion rate, cardholder billing	10
…	
Currency code, cardholder billing	51
…	

Data element	Field/Sub field
~~Customer Exclusive Data (CED)~~	~~55 type 9F7C~~
Customer language	118 type 1005
Customer language message	118 type 1006
Customer Related Data	123
…	
Debit unique reference identifier	119 type 0047
Delivery address	~~56~~ 123 type 0009
Device information	55 type DF86
…	
Electronic commerce ~~security~~ authentication type	59 type 0407
…	
Extended Electronic Commerce Indicator	119 type 0016
Extended message to the transaction initiator	119 type 00BC
…	
FPAN	119 type 0011
FPAN expiry date	119 type 0012
…	
Funding source	118 type 1002
…	
Issuer proprietary data	55 type 9F7C
…	
~~ITP PA (Point of interaction terminal application identifier)~~	~~59 type 0215~~
~~ITP SA (Acceptance system terminal application identifier)~~	~~59 type 0201~~
Kernel identifier - Terminal	55 type 0096
…	
Label or message	118 type 1004
…	
Last four digits of PAN	119 type 9F25
…	
Maximum clearing date	119 type 0083
Merchant payment gateway	119 type 0204
Merchant scheme tokenisation indicator	119 type 0001
…	
Modified electronic commerce ~~security~~ authentication type	59 type 0413
…	
nexo Acceptance System identifier	115 type 0002

Data element	Field/Sub field
nexo certificate	115 type 0003
nexo data	115
nexo PoS identifier	115 type 0001
…	
~~Oscar Acceptance System identifier~~	~~115 type 0002~~
~~Oscar certificate~~	~~115 type 0003~~
~~Oscar data~~	~~115~~
~~Oscar PoS identifier~~	~~115 type 0001~~
Other email address	123 type 0032
Other email address verification result	123 type 0034
Other phone number	123 type 0031
Other phone number verification result	123 type 0033
…	
Payment by link indicator	119 type 0050
…	
Payee/Account identifier type code	118 type 3022
Payee/Account identifier value	118 type 3021
Payee/Account number	118 type 3014
Payee/Account number type	118 type 3019
Payee/Address	118 type 3005
Payee/BIC	118 type 3012
Payee/Birth date	118 type 3011
Payee/City	118 type 3007
Payee/Country	118 type 3009
Payee/First name	118 type 3002
Payee/ID country code	118 type 3017
Payee/ID number	118 type 3016
Payee/Identity document	118 type 3015
Payee/Identity Sub Type	118 type 3020
Payee/Last name	118 type 3004
Payee/Middle name	118 type 3003
Payee/Nationality	118 type 3018
Payee/PAN	118 type 3001
Payee/Phone	118 type 3010
Payee/Postcode	118 type 3006
Payee/State or province	118 type 3008
Payee/Token authentication factor A	118 type 3023
Payer/Account identifier type code	118 type 2022
Payer/Account identifier value	118 type 2021

Data element	Field/Sub field
Payer/Account number	118 type 2014
Payer/Account number type	118 type 2019
Payer/Address	118 type 2005
Payer/BIC	118 type 2012
Payer/Birth date	118 type 2011
Payer/City	118 type 2007
Payer/Country	118 type 2009
Payer/First name	118 type 2002
Payer/IBAN	118 type 2013
Payer/ID country code	118 type 2017
Payer/ID number	118 type 2016
Payer/Identity document	118 type 2015
Payer/Identity Sub Type	118 type 2020
Payer/Last name	118 type 2004
Payer/Middle name	118 type 2003
Payer/Nationality	118 type 2018
Payer/PAN	118 type 2001
Payer/Participant identifier	118 type 2000
Payer/Phone	118 type 2010
Payer/Postcode	118 type 2006
Payer/State or province	118 type 2008
POI card input capabilities	119 type 1003
POI Components Identifier (ex ITP PA)	59 type 0215
POI display and print capabilities	119 type 1004
…	
Pre-authorisation duration	119 type 0208
…	
Purchase identifier	119 type 0042
Purchase identifier type	119 type 0041
Reattempt conditions	119 type 0803
Reattempt frozen period	119 type 0802
Recurring - Details	119 type 1118
Recurring - Indian cards	119 type 1119
Remote commerce acceptor identifier	119 type 0028
…	
Resend counter	56 type 0020
Reserved for national use	119
…	

Data element	Field/Sub field
Response data for clearing	119 type 1001
…	
Scheme program merchant identifier	119 type 0009
…	
Service location address	119 type 1113
…	
Three-domain secure components availability	119 type 0015
…	
Token authentication verification value	119 type 0015
Token Requestor ID	119 type 9F19
…	
Transaction eligible for token services	119 type 0359
Transaction identifier or cryptogram supplied by the acceptor	59 type 0400
…	
Transfer reason	118 type 1003
…	
Unique transfer reference	118 type 1000
…	

1.2.2 List by field number

All fields of the ISO 8583 standard can be used in the 2AP Authorisation protocol, but only the significant fields are presented below. The table indicates whether or not the field is used in the 2AP Authorisation protocol.

N°	Type	Name	Format	
…				
6		Amount, cardholder billing		n 12
…				
10		Conversion rate, cardholder billing		n 8
…				
47		Additional data - national	LLLVAR	ans …255
	…			
	95	Unique transaction identifier		ans ..50
	…			
	98	Card product identifier		ans2..10
	99	Original unique transaction identifier		ans..~~53~~50
	…			

N°	Type	Name	Format	
…				
51		Currency code, cardholder billing		n 3
…				
55		Integrated circuit card system related data	LLLVAR	b …255
	…			
	0096	Kernel identifier – Terminal		b1…8
	…			
	9F06	Card application identifier (AID)		b 5…16
	…			
	DF3F	Card data storage		b…114
	…			
	DF86	~~Contactless device~~ Device information		b …35
	…			
56		Additional data	LLLVAR	b …255
	…			
	~~0006~~	~~Cardholder address~~		~~ansp..40~~
	~~0008~~	~~Cardholder postcode~~		~~ansp..10~~
	~~0009~~	~~Delivery address~~		~~ans80~~
	~~0010~~	~~IP address~~		~~ans4…45~~
	…			
	0020	Resend counter		n1
	…			
	0046	~~Additional electronic commerce transaction data~~ Additional data - Initial transaction	structure	126
	…			
…				
59		National data	LLLVAR	b …255
	…			
	0201	~~ITP SA (Acceptance system terminal application identifier)~~ Acceptance System Components Identifier (ex ITP SA)		n 12
	…			
	0215	~~ITP PA (Point of interaction terminal application identifier)~~ POI Components Identifier (ex ITP PA)		n 12
	…			
	0400	Transaction identifier or cryptogram supplied by the acceptor		b..~~20~~ 4…40

N°	Type	Name	Format	
	…			
	0407	Electronic commerce transaction ~~security~~ authentication type		n 2
	…			
	0413	Modified electronic commerce ~~security~~ authentication type		b 1
	…			
115		~~Oscar~~ nexo data	LLLVAR	b …255
	0001	~~Oscar~~ nexo PoS identifier		ans..107
	0002	~~Oscar~~ nexo Acceptance System identifier		ans..71
	0003	~~Oscar~~ nexo certificate		ans..35
…				
118		Additional funds transfer data	LL2VAR	b…999
	0001	AFT - Nomenclature		an1
	1000	Unique transfer reference		ans1…35
	1001	AFT - Application type identifier		an1…3
	1002	Funding source		n2
	1003	Transfer reason		ans1…35
	1004	Label or message		ans1…65
	1005	Customer language		ans2…3
	1006	Customer language message		b1…50
	1007	Agreement ID		ans4
	2000	Payer/Participant identifier		ans1…35
	2001	Payer/PAN		n…19
	2002	Payer/First name		ans1…35
	2003	Payer/Middle name		ans1…35
	2004	Payer/Last name		ans1…35
	2005	Payer/Address		ans1…50
	2006	Payer/Postcode		ans1…10
	2007	Payer/City		ans1…25
	2008	Payer/State or province		ans2…3
	2009	Payer/Country		ans3
	2010	Payer/Phone		ans1…20
	2011	Payer/Birth date		n8
	2012	Payer/BIC		ans1…11
	2013	Payer/IBAN		an…34
	2014	Payer/Account number		an1…35
	2015	Payer/Identity document		an…4
	2016	Payer/ID number		ans…35
	2017	Payer/ID country code		ans3
	2018	Payer/Nationality		ans3
	2019	Payer/Account number type		n2
	2020	Payer/Identity Sub Type		an2
	2021	Payer/Account identifier value		ans34
	2022	Payer/Account identifier type code		an2
	3001	Payee/PAN		n…19
	3002	Payee/First name		ans1…35
	3003	Payee/Middle name		ans1…35

N°	Type	Name	Format	
	3004	Payee/Last name		ans1…35
	3005	Payee/Address		ans1…50
	3006	Payee/Postcode		ans1…10
	3007	Payee/City		ans1…25
	3008	Payee/State or province		ans2…3
	3009	Payee/Country		ans3
	3010	Payee/Phone		ans1…20
	3011	Payee/Birth date		n8
	3012	Payee/BIC		ans1…11
	3014	Payee/Account number		ans1…35
	3015	Payee/Identity document		ans…4
	3016	Payee/ID number		ans…35
	3017	Payee/ID country code		ans3
	3018	Payee/Nationality		ans3
	3019	Payee/Account number type		n2
	3020	Payee/Identity Sub Type		an2
	3021	Payee/Account identifier value		ans34
	3022	Payee/Account identifier type code		an2
	3023	Payee/Token identification factor A		b1
119		Reserved for national use	LL2VAR	b…999
	0001	Merchant scheme tokenisation indicator		an1
	0009	Scheme program merchant identifier		ans…8
	0011	FPAN		n9…19
	0012	FPAN expiry date		n4
	0013	Three-domain secure components availability		an1
	0015	Token authentication verification value		b4…40
	0016	Extended Electronic Commerce Indicator		n3
	0017	Authentication exemption status indicator		an1
	0022	3DS protocol version number		ans1…8
	0028	Remote commerce acceptor identifier		b…115
	0041	Purchase identifier type		an1
	0042	Purchase identifier		an32
	0047	Debit unique reference identifier		ans…50
	0050	Payment by link indicator		an1
	0083	Maximum clearing date		n4
	00BC	Extended message to the transaction initiator		ans…101
	0204	Merchant payment gateway		n11
	0208	Pre-authorisation duration		n2
	0359	Transaction eligible for token services		an1
	0801	Acceptor advice code		n2
	0802	Reattempt frozen period		n4
	0803	Reattempt conditions		n6

N°	Type	Name	Format	
	1001	Response data for clearing	Structure	…30
	1003	POI card input capabilities		b2
	1004	POI display and print capabilities	structure	38…50
	1104	Acceptor customer service phone number		ans…16
	1105	Acceptor phone number		ans…16
	1106	Acceptor additional contact information		ans…25
	1113	Service location address		ans29
	1118	Recurring - Details		an2
	1119	Recurring - Indian cards	structure	50
	9F19	Token Requestor ID		an11
	9F25	Last four digits of PAN		n4
…				
122		~~See ISO 8583 standard~~ Acceptor URL address	LLLVAR	ans …255
123		~~See ISO 8583 standard~~ Customer Related Data	~~LLLVAR~~ LL2VAR	~~ans …255~~ b …999
	0006	Cardholder address		ansp..40
	0008	Cardholder postcode		ansp..10
	0009	Delivery address		ans80
	0010	IP address		ans4…45
	0021	Account name verification type		an2
	0024	Account owner		ans105
	0025	Account name request result		an2
	0026	Account name match decision		an8
	0031	Other phone number		ans16
	0032	Other email address		ans99
	0033	Other phone number verification result		an1
	0034	Other email address verification result		an1
…				

1.2.3 Definition of data fields used

…

Field 3 **Format: n6**

Processing code

- ❑ Transaction description _____ n2

Value	Description
…	
39	VMAAS eligibility inquiry
…	

…

Field 6 **Format: n12**

Amount, cardholder billing

Amount billed to the cardholder, stated in the currency of the cardholder account country.

This amount is stated in the smallest units of the currency specified in field 51.

…

Field 10 **Format: n8**

Conversion rate, cardholder billing

Factor used to convert values between the transaction amount and the amount billed to the cardholder. The transaction amount (field 4) is multiplied by the cardholder billing conversion rate to obtain the cardholder billing amount (field 6).

…

Field 14 **Format: n4 AAMM**

Date, expiration

…

When present, this field must contain a significant value with YYMM structure or 0000 (for cards without validity date).

…

Field 25 **Format: n2**

Point of service condition code

…

Value	Description
…	
52	Mail order
53	Telephone order
…	

…

Field 32 **Format: LLVAR n…11**

Acquiring institution identification code

…

The structure is the following:

- ~~Bank BIN~~ Acquirer identifier _____ n6

- Bank ~~code~~ identifier _____ n5

…

Field 37 **Format: an12**

Retrieval reference number

This data element is left to the discretion of the acceptor - acquirer relation. Once it has been defined, it can no longer be changed during the entire process (i.e. acceptance, authorisation, data capture).

…

Field 39 **Format: an2**

Response code

…

Value	Description
…	
46	Business specific error
…	
62	Restricted card
…	
65	Exceeds withdrawal frequency limit
…	
6P	Verification data failed
75	Allowable number of PIN tries exceeded
…	
78	Blocked, first used transaction from new cardholder, and card not properly unblocked
82	Negative online CAM, dCVV, iCVV, or CVV results Or Offline PIN authentication interrupted
…	
93	Transaction cannot be completed-Violation of Law
…	
A1	Soft decline, 3DS with challenge required (electronic commerce only)
A2	PIN request in single TAP mode
A3	New TAP with required authentication
…	
R0	Stop payment order
…	
Z5	Valid account but amount is not supported

…

Field 41 **Format: ans8**

Card acceptor terminal identification

…

Field 42 **Format: ans15**

Card acceptor identification code

Transports the content of envelope ~~41~~ 42 provided during a parameter downloading.

…

Field 43	Format: ans40

Card acceptor name/location

…

Field 44	Format: LLVAR ans 25

Additional response data

…

➢ ***TYPE = CC: CARDHOLDER ADDRESS CHECKING INFORMATION***

…

❑ Result of control_____ans1

Value	Description
…A	
R	Retry (indeterminate outcome)

…

Field 47	Format: LLVAR ans …255

Additional data – National

…

➢ ***TYPE = 31: POINT OF INTERACTION INFORMATION***

…

Value	Description
1	~~Mobile acceptance solution~~ mPOS (smartphone/tablet with a PCI PTS dongle to read the card with PIN entry on the dongle)
2	SPoC (smartphone/tablet with a PCI PTS dongle to read the card with PIN entry on the device screen)
3	CPoC (smartphone/tablet without dongle, when the card is read in contactless mode using the NFC device and there is no PIN entry)
4	MPoC (smartphone/tablet without dongle, when the card is read in contactless mode with PIN entry on the device screen)

➢ *TYPE = 95: UNIQUE TRANSACTION IDENTIFIER*

Data format: ans…50 Number of bytes transported: …50

…

➢ *TYPE = 98: CARD PRODUCT IDENTIFIER*

…

❑ **~~RUF~~ Nomenclature**_____**an1**

…

➢ *TYPE = 99: ORIGINAL UNIQUE TRANSACTION IDENTIFIER*

Data format: ans…~~53~~50 Number of bytes transported: …~~53~~50

~~This data element contains the unique transaction identifier which is the reference for the identification of the initial transaction.~~

This data element contains the unique identifier of the transaction used as reference for linking.

…

Field 51 **Format: n3**

Currency code, cardholder billing

Specifies the currency used to express the amount defined in field 6. This is the currency code of the cardholder account's country.

The codes are listed in the ISO 4217 standard document.

…

Field 54 **Format: LLLVAR an … 120**

Additional amounts

…

❑ Amount type_____ n2

Value	Description
…	
44	Tip amount
…	
60	POI Amount before DCC conversion
90	Amount, anticipated

…

Field 55 **Format: LLLVAR b …255**

Integrated circuit card system related data

…

In the case of EMV:

- data are transported in binary without transcoding,
- indicated data formats are those defined in the EMV specifications.

❑ Data type _____ b2

Type	Description	Repeatability
	EMV specific data	
…		
9F06	Card Application identifier (AID)	
…		
9F7C	~~Customer Exclusive Data (CED)~~ Issuer proprietary data	
DF3F	Card data storage	
…		

Type	Description	Repeatability
	CB specific data	
…		
DF86	~~Contactless device~~ Device information	

…

➢ ***TYPE = 0096: KERNEL IDENTIFIER - TERMINAL***

Data format: b1…8 Number of bytes transported: 1…8

…

➢ ***TYPE = 009C: TRANSACTION TYPE***

…

~~EMV concept which corresponds to the Service Code. The correspondence between the private values of field 3 and their equivalent to set in the "transaction type" data element (field 55 type 009C) is as follows:~~

~~Field 03 - Private value~~		~~Corresponding value- Field 55 type 009C~~	
~~11~~	~~Quasi-cash~~	~~00~~	~~Purchase of goods or services~~
~~17~~	~~Manual cash~~	~~01~~	~~Withdrawal~~
~~28~~	~~Quasi-cash refund~~	~~20~~	~~Credit: returns~~
~~41~~	~~Funds transfer, debit~~	~~00~~	~~Purchase of goods or services~~
~~42~~	~~Funds transfer, credit~~	~~20~~	~~Credit: returns~~

…

➢ *TYPE = 9F06: CARD APPLICATION IDENTIFIER (AID)*

…

➢ *TYPE = 9F7C: ~~CUSTOMER EXCLUSIVE DATA (CED)~~ ISSUER PROPRIETARY DATA*

…

➢ *TYPE = DF3F: CARD DATA STORAGE*

Data format: b…114 Number of bytes transported: …114

…

➢ *TYPE = DF86: ~~CONTACTLESS DEVICE~~ DEVICE INFORMATION*

…

Field 56 **Format: LLLVAR b …255**

Additional data

❑ Data type _____ b2

Type	Description	Repeatability
…		
~~0006~~	~~Cardholder address~~	
~~0008~~	~~Cardholder postcode~~	
~~0009~~	~~Delivery address~~	
~~0010~~	~~IP address~~	
…		
0046	~~Additional electronic commerce transaction data~~ Additional data – Initial transaction	
…		

…

~~➢ TYPE = 0006: CARDHOLDER ADDRESS~~

~~Data format: ansp..40 Number of bytes transported: ..40~~

~~Cardholder address.~~

~~➢ TYPE = 0008: CARDHOLDER POSTCODE~~

~~Data format: ansp..10 Number of bytes transported: ..10~~

~~Cardholder postcode.~~

~~➢ TYPE = 0009: DELIVERY ADDRESS~~

~~Data format: ans80 Number of bytes transported: 80~~

~~Delivery address for the order.~~

~~The address has the following fields: number and street name, postcode and country. The fields are separated by asterisks.~~

~~➢ TYPE = 0010: IP ADDRESS~~

~~Data format: ans4…45 Number of bytes transported: 4…45~~

~~Cardholder IP address.~~

~~The two address formats are the following:~~

~~IPv4 is represented in decimal notation with four numbers between 0 and 255, separated by points. For example, 5.10.255.1~~

~~IPv6 is represented by eight groups of four hexadecimal digits, each group representing 16 bits (two bytes). The groups are separated by colons (:).~~

~~For example, IPv6: 2019: 0d8e: 113a: 1111: 0101: 8a2e: 0370: 7334~~

…

➢ TYPE = 0012: MOBILE PAYMENT SOLUTION IDENTIFIER

…

❑ Identifier _____ n2

Value	Description
00	Apple Pay
01	Samsung Pay
02	Google Pay

…

➢ TYPE = 0020: RESEND COUNTER

Data format: n1 Number of bytes transported: 1

Counter used for re-authorised messages.

…

➢ TYPE = 0028: PAYMENT USE CASE

…

Value	Description
…	
~~06-99~~	~~RFU~~
06	Reservation and rental payment
07	Pre-authorisation out of reservation and rental context
08	Deposit-refund system
09-89	RFU

Value	Description
90	Non payment card validity check
91-99	RFU

➢ ***TYPE = 0033: EXEMPTION INDICATOR***

…

❑ **Byte 1**_____ **b1**

Value	Description
…	
6	~~Strong authentication implemented by acceptor (wallet)~~ Delegated authentication
…	

❑ **Byte 2**_____ **b1**

Value	Description
…	
1	~~Transaction risk analysis – merchant in CB Low Risk Merchant program~~ Specific scheme program exemption

…

➢ ***TYPE = 0036: AUTHENTICATION MERCHANT NAME***

…

~~Identifier assigned by the Directory Server to uniquely identify the merchant.~~

Name of the merchant presented for authentication.

➢ ***TYPE = 0037: AUTHENTICATION DATE***

…

~~Corresponds to the EMVCo data element "purchaseDate".~~

➢ ***TYPE = 0046: ~~ADDITIONAL ELECTRONIC COMMERCE TRANSACTION DATA~~ ADDITIONAL DATA – INITIAL TRANSACTION***

…

❑ 3DS protocol major version _____ n2

When absent (for instance, for a face-to-face CIT), data is filled with zero.

❑ ACS transaction ID _____ ans36

When absent (for instance, for a face-to-face CIT), data is filled with spaces.

❑ DS transaction ID_____ ans36

When absent (for instance, for a face-to-face CIT), data is filled with spaces.

…

Field 59 **Format: LLLVAR b …255**

National data

- Data type_____ b2

…

Type	Description	Repeatability
French specific data		
…		
0201	~~ITP SA (Acceptance system terminal application identifier)~~ Acceptance System Components Identifier (ex ITP SA)	
…		
0215	~~ITP PA (Point of interaction terminal application identifier)~~ POI Components Identifier (ex ITP PA)	
…		

➢ ***TYPE = 0101: MESSAGE REASON CODE***

…

Value	Description
Values 1500 to 1999 specify the reason why a request message (0100) was sent instead of an advice (0120).	
…	
1675	Deferred authorisation
…	
1680	Authorisation following issuer PIN request
1681	Suspected relay attack
1682	Relay attack detection processing
1683	Zero Amount Debt Recovery Transaction
1684	PAR to send to the Acceptor
…	

➢ ***TYPE = 0200: ERT (REGULATORY AND TECHNICAL ENVIRONMENT)***

…

Value	Description
…	
Remote payment	
20	~~Unspecified~~ Remote payment, manual entry via terminal
…	
24	~~Open networks~~ Internet, Cardholder Initiated Transaction
…	
~~27~~	~~Open networks~~
~~28~~	~~Recurring payment via another form of order~~
Acceptor Initiated Transaction	
27	~~Open networks~~ AIT (after Internet or face-to-face or unattended payment CIT)
28	~~Recurring payment via another form of order~~ AIT (other cases)
…	
Unattended payment	

Value	Description
…	
43	~~Payment via an unattended vending machine with mandatory cardholder authentication~~ Payment via an unattended terminal with differed payment
…	
48	~~Unattended payment outside CB context~~ Payment via an unattended machine for specific activities (highways, car parks,etc)
…	
58	~~Transport access network~~ Open Payment
59	~~Reserved for future use~~ Single Ticket Transaction
…	

➢ ***TYPE = 0201: ~~ITP SA (ACCEPTANCE SYSTEM TERMINAL APPLICATION IDENTIFIER)~~ ACCEPTANCE SYSTEM COMPONENTS IDENTIFIER (EX ITP SA)***

…

➢ ***TYPE = 020B: TASA (CARD ACCEPTOR APPLICATION TYPE)***

…

Byte 2 value	Description		
…			
28		Recurring payment via another type of order	
…			
58	~~Transport access network~~ Open Payment		
59	Single Ticket Transaction		
…			

TASA/ERT correspondence table

TASA		ERT	
…			
Remote payment			
…			
28	Recurring payment via another type of order	28	Recurring payment via another type of order
28	Recurring payment via another type of order	21	Remote payment: Telephone
28	Recurring payment via another type of order	22	Remote payment: Mail order
…			
Payment by unattended terminal			
…			
58	~~Transport access network~~ Open Payment	58	~~Transport access network~~ Open Payment
59	Single Ticket Transaction	59	Single Ticket Transaction
…			

➢ *TYPE = 0215: ~~ITP PA (POINT OF INTERACTION TERMINAL APPLICATION IDENTIFIER)~~ POI COMPONENTS IDENTIFIER (EX ITP PA)*

…

➢ *TYPE = 0400: TRANSACTION IDENTIFIER OR CRYPTOGRAM SUPPLIED BY THE ACCEPTOR*

Data format: b~~..20~~ 4…40 Number of bytes transported: ~~..20~~ 4…40

Contains an unique reference for a secured electronic commerce transaction (This identifier is used in certain electronic commerce cryptogram calculation methods) or a cryptogram generated by the acceptance solution.

…

➢ *TYPE = 0407: ELECTRONIC COMMERCE ~~SECURITY~~ AUTHENTICATION TYPE*

Data format: n2 Number of bytes transported: 1

Value	Description
~~**08**~~	~~Non-secured electronic commerce transaction~~
09	~~Secured by any means other than those corresponding to the other values~~ No authentication cryptogram
20	~~Secured electronic commerce~~ Authentication cryptogram issued from a server
21	~~Secured via mobile~~ Authentication cryptogram issued from a Xpay or token cryptogram with authentication delegated to device

…

➢ *TYPE = 0410: CARDHOLDER AUTHENTICATION METHOD*

…

For CB transactions performed with a third-party Wallet, the data element contains the authentication method ~~defined in the EMVCo 3DS protocol~~ when the Wallet provides it for the transaction.

➢ *TYPE = 0411: CARDHOLDER AUTHENTICATION VALUE CALCULATION METHOD*

…

- For 3DS V1: Its value is identical to the 3D-Secure PARes message <TX><cavvAlgorithm> XML tag.
- For CB EMVCo 3DS: Its value is identical to the CB-AVALGO extension for Ares and RReq messages.
- …

…

➢ *TYPE = 0412: THREE-DOMAIN SECURE RESULTS*

…

Describes the result of exchanges using a secured remote payment architecture.

❑ Nomenclature _____ n1

Value 0

~~Specifies the result of the use of the secured remote payment architecture.~~

~~Value~~	~~Description~~
~~0~~	~~CB~~

❑ Cardholder authentication _____ an1

For 3DS transactions, corresponds to the "Transaction Status" data element in the EMVCo 3DS specifications so this list below is likely to change according to EMVCo. **Therefore, any relevant value defined by EMV 3DS shall not be rejected by the recipient.**

Value E may be used for third party Wallet.

Value	Description
~~In the CB nomenclature (Result of cardholder authentication)~~	
…	
E	Successful authentication, without cryptogram
I	Informational only
…	

❑ ~~Registration control~~ Reserved for future use _____ b2

➢ ***TYPE = 0413: MODIFIED ELECTRONIC COMMERCE ~~SECURITY~~ AUTHENTICATION TYPE***

…

Value	Description
09	~~Secured by any means other than those corresponding to the other values~~ No authentication cryptogram
20	Authentication cryptogram issued from a server
21	Authentication cryptogram issued from a Xpay or token cryptogram with authentication delegated to device

➢ ***TYPE = 0414: ADDITIONAL ELECTRONIC COMMERCE DATA ELEMENTS***

…

❑ Type of additional data _____ an2

Value	Description
~~01~~	~~MasterPass~~
…	

➢ ***TYPE = 0415: DIGITAL WALLET NAME***

…

Value	Description
~~03~~	~~MasterPass~~
…	

…

➢ ***TYPE = 0419: THREE-DOMAIN SECURE RESULTS, OTHERS***

…

❑ **3DS authentication type _____ an2**

Value	Description
…	
~~FD~~	~~Frictionless in stand-in mode~~
…	

❑ **Merchant request for authentication** _____ **n2**

For 3DS transactions, corresponds to the "3DS Requestor Challenge Indicator" data element in the EMVCo 3DS specifications so this list below is likely to change according to EMVCo. **Therefore, any relevant value defined by EMV 3DS shall not be rejected by the recipient.**

Value	Description
…	
05	No authentication: transaction risk analysis already performed
06	No authentication: data share only
07	No authentication: SCA already performed
08	No authentication: whitelist
09	Authentication required

…

➢ ***TYPE = 0420: ELECTRONIC COMMERCE DATA, INITIAL TRANSACTION***

…

❑ **Electronic commerce transaction ~~security~~ authentication type** _____ **n2**

When absent, data is filled with zero.

❑ **Cardholder authentication method** _____ **ans2**

When absent, data is filled with 2 spaces.

❑ **Cardholder authentication value calculation method** _____ **an1**

When absent, data is filled with one space.

❑ **Result of using a secured remote payment architecture** _____ **ansb4**

When absent, data is filled with one space.

❑ **Extension of result of using a secured payment architecture** _____ **ansb10**

❑ **Cardholder authentication value** _____ **b4..40**

When absent, data is filled with four bytes of zero.

➢ ***TYPE = 0800: SERVICE ATTRIBUTE***

…

Value	Description
…	
3	Additional ~~pre-authorisation~~ charges
4	Acceptor Initiated Transaction following a face-to-face or an unattended CIT
…	
7	~~Multiple payment, other payment~~ Acceptor Initiated Transaction following an internet CIT

Value	Description
11	Debt recovery

➢ *TYPE = 0805: OPTIONAL SERVICES SUPPORTED (ACCEPTOR DOMAIN)*

…

Value	Description
Bits 16-~~45~~	Reserved for future use
Bit 4	Single TAP
…	

Field 115 **Format: LLLVAR b …255**

~~Oscar~~ nexo data

❑ **Data type** _____ **b2**

Type	Description	Repeatability
0001	~~Oscar~~ nexo PoS identifier	
0002	~~Oscar~~ nexo Acceptance System identifier	
0003	~~Oscar~~ nexo certificate	

…

➢ *TYPE = 0001: ~~OSCAR~~ NEXO POS IDENTIFIER*

…

Identification of the ~~OSCar~~ nexo terminal.

This field includes ~~EPAS~~ nexo data elements from the ~~OSCar~~ nexo server (POIComponent = "TERM"): "Identification.ProviderIdentification", "Identification.Identification" and "Identification.SerialNumber", each separated by an anti-slash ("\").

➢ *TYPE = 0002: ~~OSCAR~~ NEXO ACCEPTANCE SYSTEM IDENTIFIER*

…

Identification of the ~~OSCar~~ nexo terminal in the case of an integrated/distributed system.

This field includes ~~EPAS~~ nexo data elements from the nexo server (POIComponent = "SERV"): "Identification.ProviderIdentification" and "Identification.Identification", each separated by an anti-slash ("\").

➢ *TYPE = 0003: ~~OSCAR~~ NEXO CERTIFICATE*

…

Identification of the ~~OSCar~~ nexo solution.

Reference of the ~~OSCar~~ nexo certificate assigned to the solution

This field contains the ~~EPAS~~ nexo data element "Assessment.Number" of the nexo application (POIComponent = "APLI").

Field 118 **Format: LL2VAR b…999**

Additional funds transfer data

- **Data type** **b2**

Value	Description	Repeatability
0001	AFT - Nomenclature	
1000	Unique transfer reference	
1001	AFT - Application type identifier	
1002	Funding source	
1003	Transfer reason	
1004	Label or message	
1005	Customer language	
1006	Customer language message	
1007	Agreement ID	
2000	Payer/Participant identifier	
2001	Payer/PAN	
2002	Payer/First name	
2003	Payer/Middle name	
2004	Payer/Last name	
2005	Payer/Address	
2006	Payer/Postcode	
2007	Payer/City	
2008	Payer/State or province	
2009	Payer/Country	
2010	Payer/Phone	
2011	Payer/Birth date	
2012	Payer/BIC	
2013	Payer/IBAN	
2014	Payer/Account number	
2015	Payer/Identity document	
2016	Payer/ID number	
2017	Payer/ID country code	
2018	Payer/Nationality	
2019	Payer/Account number type	
2020	Payer/Identity Sub Type	
2021	Payer/Account identifier value	
2022	Payer/Account identifier type code	

Value	Description	Repeatability
3001	Payee/PAN	
3002	Payee/First name	
3003	Payee/Middle name	
3004	Payee/Last name	
3005	Payee/Address	
3006	Payee/Postcode	
3007	Payee/City	
3008	Payee/State or province	
3009	Payee/Country	
3010	Payee/Phone	
3011	Payee/Birth date	
3012	Payee/BIC	
3014	Payee/Account number	
3015	Payee/Identity document	
3016	Payee/ID number	
3017	Payee/ID country code	
3018	Payee/Nationality	
3019	Payee/Account number type	
3020	Payee/Identity Sub Type	
3021	Payee/Account identifier value	
3022	Payee/Account identifier type code	
3023	Payee/Token authentication factor A	

Data length _____ b2

Data value.

➢ ***TYPE = 0001: AFT - NOMENCLATURE***

Data format: an 1 Number of bytes transported: 1

Indicates the network involved in the coding of data in the field.

Value	Meaning
1	CB
2	Visa
3	MasterCard

➢ TYPE = 1000: UNIQUE TRANSFER REFERENCE

Data format: ans 1..35 Number of bytes transported: 1..35

Contains a unique reference to identify the funds transfer transaction.

➢ TYPE = 1001: AFT - APPLICATION TYPE IDENTIFIER

Data format: an 1…3 Number of bytes transported: 1..3

Identifies the type of application that initiated the transaction.

Refer to each scheme rules.

➢ TYPE = 1002: SOURCE OF THE FUNDS

Data format: n 2 Number of bytes transported: 1

Source of the funds.

➢ TYPE = 1003: TRANSFER REASON

Data format: ans 1..35 Number of bytes transported: 1..35

Reason for the transfer.

➢ TYPE = 1004: LABEL OR MESSAGE

Data format: ans 1..65 Number of bytes transported: 1..65

Text or a message.

➢ TYPE = 1005: CUSTOMER LANGUAGE

Data format: ans 2..3 Number of bytes transported: 2..3

Language used by the customer.

➢ TYPE = 1006: CUSTOMER LANGUAGE MESSAGE

Data format: b 1..50 Number of bytes transported: 1..50

Message in the customer's language.

➢ TYPE = 1007: AGREEMENT ID

Data format: ans4 Number of bytes transported: 4

➢ TYPE = 2000: PAYER/PARTICIPANT IDENTIFIER

Data format: ans 1..35 Number of bytes transported: 1..35

Payer's participant identifier at the Payer side.

➢ TYPE = 2001: PAYER/PAN

Data format: n..19 Number of bytes transported: ..10

Payer's PAN.

Note : When the PAN has an odd number of positions, the first position is equal to 0 and that the first useful position is the second one.

➢ TYPE = 2002: PAYER/FIRST NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payer's first name.

➢ TYPE = 2003: PAYER/MIDDLE NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payer's middle name.

➢ TYPE = 2004: PAYER/LAST NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payer's last name.

➢ TYPE = 2005: PAYER/ADDRESS

Data format: ans 1..50 Number of bytes transported: 1..50

Payer's address.

➢ TYPE = 2006: PAYER/POSTCODE

Data format: ans 1..10 Number of bytes transported: 1..10

Payer's postal code.

➢ TYPE = 2007: PAYER/CITY

Data format: ans 1..25 Number of bytes transported: 1..25

Payer's city.

➢ TYPE = 2008: PAYER/STATE OR PROVINCE

Data format: ans 2..3 Number of bytes transported: 2..3

Payer's state or province.

➢ TYPE = 2009: PAYER/COUNTRY

Data format: ans 3 Number of bytes transported: 3

Payer's country.

➢ TYPE = 2010: PAYER/PHONE

Data format: ans 1..20 Number of bytes transported: 1..20

Payer's phone number.

➢ TYPE = 2011: PAYER/BIRTH DATE

Data format: n 8 Number of bytes transported: 4

Payer's birth date (MMDDYYYY format).

➢ TYPE = 2012: PAYER/BIC

Data format: ans 1..11 Number of bytes transported: 1..11

International Bank Identifier Code for the Payer's bank account.

➢ TYPE = 2013: PAYER/IBAN

Data format: an..34 Number of bytes transported: ..34

International Bank Account Number for the Payer's bank account.

➢ TYPE = 2014: PAYER/ACCOUNT NUMBER

Data format: an 1…35 Number of bytes transported: 1..35

Payer's account number.

➢ TYPE = 2015: PAYER/IDENTITY DOCUMENT

Data format: ans ..4 Number of bytes transported: ..4

Type of identity document used to identify the Payer.

➢ TYPE = 2016: PAYER/ID NUMBER

Data format: ans ..35 Number of bytes transported: ..35

Number of the identity document used to identify the Payer.

➢ TYPE = 2017: PAYER/ID COUNTRY CODE

Data format: ans 3 Number of bytes transported: 3

Issuing country code of the identity document used to identify the Payer.

➢ TYPE = 2018: PAYER/NATIONALITY

Data format: ans 3 Number of bytes transported: 3

Nationality of the Payer.

➢ TYPE = 2019: PAYER/ACCOUNT NUMBER TYPE

Data format: n2 Number of bytes transported: 1

Account number type of the payer.

➢ TYPE = 2020 : PAYER/IDENTITY SUB TYPE

Data format: an 2 Number of bytes transported: 2

➢ TYPE = 2021 : PAYER/ACCOUNT IDENTIFIER VALUE

Data format: ans34 Number of bytes transported: 34

➢ TYPE = 2022 : PAYER/ACCOUNT IDENTIFIER TYPE CODE

Data format: an2 Number of bytes transported: 2

➢ TYPE = 3001: PAYEE/PAN

Data format: n..19 Number of bytes transported: ..10

Payee's PAN.

Note : When the PAN has an odd number of positions, the first position is equal to 0 and that the first useful position is the second one.

➢ TYPE = 3002: PAYEE/FIRST NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payee's first name.

➢ TYPE = 3003: PAYEE/MIDDLE NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payee's middle name.

➢ TYPE = 3004: PAYEE/LAST NAME

Data format: ans 1..35 Number of bytes transported: 1..35

Payee's last name.

➢ TYPE = 3005: PAYEE/ADDRESS

Data format: ans 1..50 Number of bytes transported: 1..50

Payee's address.

➢ TYPE = 3006: PAYEE/POSTCODE

Data format: ans 1..10 Number of bytes transported: 1..10

Payee's postal code.

➢ TYPE = 3007: PAYEE/CITY

Data format: ans 1..25 Number of bytes transported: 1..25

Payee's city.

➢ TYPE = 3008: PAYEE/STATE OR PROVINCE

Data format: ans 2..3 Number of bytes transported: 2..3

Payee's state or province.

➢ TYPE = 3009: PAYEE/COUNTRY

Data format: ans 3 Number of bytes transported: 3

Payee's country.

➢ TYPE = 3010: PAYEE/PHONE

Data format: ans 1..20 Number of bytes transported: 1..20

Payee's phone number.

➢ TYPE = 3011: PAYEE/BIRTH DATE

Data format: n 8 Number of bytes transported: 4

Payee's birth date (MMDDYYYY format).

➢ TYPE = 3012: PAYEE/BIC

Data format: ans 1..11 Number of bytes transported: 1..11

International Bank Identifier Code for the payee's bank account.

➢ TYPE = 3014: PAYEE/ACCOUNT NUMBER

Data format: an 1.35 Number of bytes transported: 1..35

Payee's account number.

➢ TYPE = 3015: PAYEE/IDENTITY DOCUMENT

Data format: ans ..4 Number of bytes transported: ..4

Type of identity document used to identify the payee.

➢ TYPE = 3016: PAYEE/ID NUMBER

Data format: ans ..35 Number of bytes transported: ..35

Number of the identity document used to identify the payee.

➢ *TYPE = 3017: PAYEE/ID COUNTRY CODE*

Data format: ans 3 Number of bytes transported: 3

Issuing country code of the identity document used to identify the payee.

➢ *TYPE = 3018: PAYEE/NATIONALITY*

Data format: ans 3 Number of bytes transported: 3

Nationality of the payee.

➢ *TYPE = 3019: PAYEE/ACCOUNT NUMBER TYPE*

Data format: n2 Number of bytes transported: 1

Account number type of the payee.

➢ *TYPE = 3020 : PAYEE/IDENTITY SUB TYPE*

Data format: an 2 Number of bytes transported: 2

➢ *TYPE = 3021 : PAYEE/ACCOUNT IDENTIFIER VALUE*

Data format: ans34 Number of bytes transported: 34

➢ *TYPE = 3022 : PAYEE/ACCOUNT IDENTIFIER TYPE CODE*

Data format: an2 Number of bytes transported: 2

➢ *TYPE = 3023 : PAYEE/TOKEN AUTHENTICATION FACTOR A*

Data format: b1 Number of bytes transported: 1

Field 119 Format: LL2VAR b…999

Reserved for national use

❑ **Data type** b2

Type	Description	Repeatability
0001	Merchant tokenisation indicator	
0009	Scheme program merchant identifier	
0011	FPAN	
0012	FPAN expiry date	
0013	Three-domain secure components availability	
0015	Token authentication verification value	
0016	Extended Electronic Commerce Indicator	
0017	Authentication exemption status indicator	
0022	3DS protocol version number	
0028	Remote commerce acceptor identifier	
0041	Purchase identifier type	

Type	Description	Repeatability
0042	Purchase identifier	
0047	Debit unique reference identifier	
0050	Payment by link indicator	
0083	Maximum clearing date	
00BC	Extended message to the transaction initiator	
0204	Merchant payment gateway ID	
0208	Pre-authorisation duration	
0359	Transaction eligible for token services	
0801	Acceptor advice code	
0802	Reattempt frozen period	
0803	Reattempt conditions	
1001	Response data for clearing	
1003	POI card input capabilities	
1004	POI display and print capabilities	
1104	Acceptor customer service phone number	
1105	Acceptor phone number	
1106	Acceptor additional contact information	
1113	Service location address	
1118	Recurring - Details	
1119	Recurring – Indian cards	
9F19	Token Requestor ID	
9F25	Last four digits of PAN	

- **Data element length** _____ **b2**
- **Data element value**

➢ ***TYPE = 0001: MERCHANT SCHEME TOKENISATION INDICATOR***

Data format: an1 Number of bytes transported: 1

Value	Description
1	Card-On-File tokenisation

➢ ***TYPE = 0009: SCHEME PROGRAM MERCHANT IDENTIFIER***

Data format: ans…8 Number of bytes transported: …8

Merchant identifier for the transaction scheme program

➢ ***TYPE = 0011 : FPAN***

Data format: n9…19 Number of bytes transported: 5…10

Primary Account Number associated to the token for tokenised transactions.

➢ TYPE = 0012 : FPAN EXPIRY DATE

Data format: n4 Number of bytes transported: 2

Expiration date of the Primary Account Number associated to the token for tokenised transactions.

➢ TYPE = 0013: THREE-DOMAIN SECURE COMPONENTS AVAILABILITY

Data format: an1 Number of bytes transported: 1

Value	Description
1	3DS server unavailable

➢ TYPE = 0015: TOKEN AUTHENTICATION VERIFICATION VALUE

Data format: b4…40 Number of bytes transported: 4…40

Token cryptogram that contains uniquely generated data to enable validation of the authorised use of the Payment Token.

➢ TYPE = 0016: EXTENDED ELECTRONIC COMMERCE INDICATOR

Data format: n3 Number of bytes transported: 2

SLI (Security Level Indicator) in electronic commerce.

➢ TYPE = 0017: AUTHENTICATION EXEMPTION STATUS INDICATOR

Data format: an1 Number of bytes transported: 1

Indicates the status of the exemption.

➢ TYPE = 0022: 3DS PROTOCOL VERSION NUMBER

Data format: ans1…8 Number of bytes transported: 1…8

Corresponds to the ‘Message version number’ data element in the EMVCo 3DS specifications.

Default value of ‘0’ if the data element is absent or not set to a value.

Examples: 2.0.0, 2.1.0, 2.2.0

➢ TYPE = 0028: REMOTE COMMERCE ACCEPTOR INDICATOR

Data format: b…115 Number of bytes transported: …115

This identifier may consist of part of merchant business website URL or reverse domain name which allows to perform the dynamic linking validation.

➢ TYPE = 0041: PURCHASE IDENTIFIER TYPE

Data format: an1 Number of bytes transported: 1

The following list is provided for example. Refer to schemes’ rules:

Value	Description
0	Free text

Value	Description
1	Order number
3	Rental agreement number
4	Hotel folio number
5	Invoice number

➢ ***TYPE = 0042: PURCHASE IDENTIFIER***

Data format: an32 Number of bytes transported: 32

Allows to uniquely identify a payment agreement using the same PAN or token under the same merchant and the same payment use case.

➢ ***TYPE = 0047: DEBIT UNIQUE REFERENCE IDENTIFIER***

Data format: ans…50 Number of bytes transported: …50

Identifier of the debit transaction to which a credit transaction is associated. This debit is an authorized debit which can have been made in remote payment or in another payment method.

➢ ***TYPE = 0050: PAYMENT BY LINK INDICATOR***

Data format: an1 Number of bytes transported: 1

Value	Description
1	Payment by link

➢ ***TYPE = 0083: MAXIMUM CLEARING DATE***

Data format: n4 Number of bytes transported: 2

Date the scheme's rules require the transaction to be cleared.

Julian date: format YDDD with Y from 0 to 9 and DDD from 001 to 366.

➢ ***TYPE = 00BC: EXTENDED MESSAGE TO THE TRANSACTION INITIATOR***

Data format: ans1…101 Number of bytes transported: …101

❑ **Control character_____ ans1**

Value	Description
0	Reserved
1	Print
2	Display
3	Print and display
4	Print for cardholder only
5	Display for cardholder only
6	Print and display for the cardholder only
7	Print for acceptor only
8	Display for acceptor only
9	Print and display for the acceptor only
A	Print for the acceptor and the cardholder

Value	Description
B	Display for the acceptor and the cardholder
C	Print and display for the acceptor and the cardholder
F	Reserved for private use

❑ **Response message** _____ **ans…100**

➢ ***TYPE = 0204: MERCHANT PAYMENT GATEWAY ID***

Data format: n11 Number of bytes transported: 6

Identify the payment gateway that ultimately sends the transaction data to the Acquirer.

➢ ***TYPE = 0208: PRE-AUTHORISATION DURATION***

Data format: n 2 Number of bytes transported: 1

This indicates for how many days the pre-authorisation is valid.

➢ ***TYPE = 0359: TRANSACTION ELIGIBLE FOR TOKEN SERVICES***

Data format: an1 Number of bytes transported: 1

Allows the scheme to indicate whether the transaction is eligible for its token services.

➢ ***TYPE = 0801: ACCEPTOR ADVICE CODE***

Data format: n 2 Number of bytes transported: 1

Use by acquirers to communicate to merchants the procedure to follow when an authorisation request is declined.

Value	Description
01	Obtain new information before the next transaction
02	Try again later
03	Never try again
04	Do not store the card number in Card-On-File

➢ ***TYPE = 0802: REATTEMPT FROZEN PERIOD***

Data format: n 4 Number of bytes transported: 2

Number of hours where reattempt is not allowed

➢ ***TYPE = 0803: REATTEMPT CONDITIONS***

Data format: n 6 Number of bytes transported: 3

❑ **Reattempt allowed duration**_____ **n4**

❑ **Maximum number of reattempts**_____ **n2**

➢ TYPE = 1001: RESPONSE DATA FOR CLEARING

Data format: structure Number of bytes transported: …30

- ❒ Account funding source _____ an1
- ❒ Applied Authorization Characteristics Indicator _____ an1
- ❒ Applied Market-Specific Data Identifier _____ an1
- ❒ Program Downgrade Reason Code _____ an2
- ❒ Validation code _____ an4
- ❒ Expense threshold _____ an1
- ❒ Merchant program - Merchant Verification Value _____ n10
- ❒ Applied cardholder ID method _____ an1
- ❒ Reserved for future use _____ b0…14

➢ TYPE = 1003: POI CARD INPUT CAPABILITIES

Data format: b2 Number of bytes transported: 2

- ❒ Byte 1 _____ b1

b8	b7	b6	b5	b4	b3	b2	b1	Description
0								Reserved for future use
	X							1 = No terminal
		X						1 = Magstripe reader
			X					1 = Contactless chip card reader - EMV chip context
				X				1 = Contactless chip card reader – magnetic stripe context
					X			1 = Contact chip card reader
						X		1 = Keypad input
							0	Reserved for future use

- ❒ Byte 2: reserved for future use _____ b1

➢ TYPE = 1004: POI DISPLAY AND PRINT CAPABILITIES

Data format: structure Number of bytes transported: 38…50

- ❒ Cardholder display capabilities
  - Number of lines _____ n4
  - Line width _____ n4
  - Reserved for future use _____ b6
- ❒ Merchant display capabilities
  - Number of lines _____ n4
  - Line width _____ n4
  - Reserved for future use _____ b6
- ❒ Cardholder print capabilities

- Format _____ b1

b8	b7	b6	b5	b4	b3	b2	b1	Description
X								Other receipt format
	0							Reserved for future use
		0						Reserved for future use
			0					Reserved for future use
				X				1 = External system (
					X			1 = email
						X		1 = SMS
							X	1 = Paper

- Paper line width (only for paper format) _____ n4
- Reserved for future use _____ b6

❑ Merchant print capabilities

- Format _____ b1

b8	b7	b6	b5	b4	b3	b2	b1	Description
X								Other receipt format
	0							Reserved for future use
		0						Reserved for future use
			0					Reserved for future use
				X				1 = External system (
					X			1 = email
						X		1 = SMS
							X	1 = Paper

- Line width (only for paper format) _____ n4
- Reserved for future use _____ b6

❑ Reserved for future use _____ b…12

➢ ***TYPE = 1104: ACCEPTOR CUSTOMER SERVICE PHONE NUMBER***

Data format: ans…16 Number of bytes transported: …16

➢ ***TYPE = 1105: ACCEPTOR PHONE NUMBER***

Data format: ans…16 Number of bytes transported: …16

➢ ***TYPE = 1106: ACCEPTOR ADDITIONAL CONTACT INFORMATION***

Data format: ans…25 Number of bytes transported: …25

➢ ***TYPE = 1113: SERVICE LOCATION ADDRESS***

Data format: ans29 Number of bytes transported:29

❑ **Service location city name _____ ans13**

❑ **Service location country code _____ ans3**

- **Service location subdivision code** ans3

Service location postal code ans10

➢ *TYPE = 1118: RECURRING - DETAILS*

Data format: an2 Number of bytes transported: 2

- **Recurring – Frequency type** an1

Value	Description
F	Fixed
V	Variable

- **Recurring – Amount type** an1

Value	Description
F	Fixed
V	Variable

➢ *TYPE = 1119: RECURRING – INDIAN CARDS*

Data format: an2 Number of bytes transported: 44

- **Recurring frequency** an2

Value	Description
01	Daily
02	Twice weekly
03	Weekly
04	Ten days
05	Fortnightly
06	Monthly
07	Every two months
08	Trimester
09	Quarterly
10	Twice yearly
11	Annually
12	Unscheduled

- **Registration reference number** an35
- **Maximum recurring payment amount** n12
- **Validation indicator** an1

Value	Description
0	Not validated
1	Validated

➢ *TYPE = 9F19: TOKEN REQUESTOR ID*

Data format: an 11 Number of bytes transported: 11

Identifies each unique combination of Token Requestor and Token Domain(s) for a given Token Service Provider:

- Positions 1-3: Token Service Provider Code, unique to each Token Service Provider
- Positions 4-11: assigned by the Token Service Provider for each Token Requestor and Token Domain

➢ *TYPE = 9F25: LAST FOUR DIGITS OF PAN*

Data format: n 4 Number of bytes transported: 2

Last four digits of PAN

Field 122 Format: LLLVAR ans 255

Acceptor URL address

Acceptor website address

Field 123 Format: LL2VAR b…999

Customer related data

❑ **Data type** b2

Type	Description	Repeatability
0006	Cardholder address	
0008	Cardholder postcode	
0009	Delivery address	
0010	IP address	
0021	Account name verification type	
0024	Account Owner	
0025	Account Name Request Result	
0026	Account Name Match Decision	
0031	Other phone number	
0032	Other email address	
0033	Other phone number verification result	
0034	Other email address verification result	

❑ **Data element length** b2

❑ **Data element value**

➢ *TYPE = 0006: CARDHOLDER ADDRESS*

Data format: ansp..40 Number of bytes transported: ..40

Cardholder address.

➢ TYPE = 0008: CARDHOLDER POSTCODE

Data format: ansp..10 Number of bytes transported: ..10

Cardholder postcode.

➢ TYPE = 0009: DELIVERY ADDRESS

Data format: ans80 Number of bytes transported: 80

Delivery address for the order.

The address has the following fields: number and street name, postcode and country. The fields are separated by asterisks.

➢ TYPE = 0010: IP ADDRESS

Data format: ans4…45 Number of bytes transported: 4…45

Cardholder IP address.

The two address formats are the following:

IPv4 is represented in decimal notation with four numbers between 0 and 255, separated by points. For example, 5.10.255.1

IPv6 is represented by eight groups of four hexadecimal digits, each group representing 16 bits (two bytes). The groups are separated by colons (:).

For example, IPv6: 2019: 0d8e: 113a: 1111: 0101: 8a2e: 0370: 7334

➢ TYPE = 0021: ACCOUNT NAME VERIFICATION TYPE

Data format: an2 Number of bytes transported: 2

Value	Description
10	Funds transfer - Payee account owner name inquiry
11	Funds transfer - Payer account owner name inquiry

➢ TYPE = 0024: ACCOUNT OWNER

Data format: ans105 Number of bytes transported: 105

- **Name, Given** _____ **ans35**
- **Name, Middle** _____ **ans35**
- **Name, Last** _____ **ans35**

➢ TYPE = 0025: ACCOUNT NAME REQUEST RESULT

Data format: an2 Number of bytes transported: 2

Value	Description
MP	Name match performed
NP	Name match not performed
NS	Name match not supported

➢ TYPE = 0026: ACCOUNT NAME MATCH DECISION

Data format: an8 Number of bytes transported: 8

❑ **Full name account match decision** _____ **an2**

Value	Description
MA	Full match
PA	Partial match
NO	No match

❑ **Last name account match decision** _____ **an2**

Value	Description
MA	Full match
PA	Partial match
NO	No match

❑ **Middle name account match decision** _____ **an2**

Value	Description
MA	Full match
PA	Partial match
NO	No match

❑ **First name account match decision** _____ **an2**

Value	Description
MA	Full match
PA	Partial match
NO	No match

➢ TYPE = 0031: OTHER PHONE NUMBER

Data format: ans16 Number of bytes transported: 16

➢ TYPE = 0032: OTHER EMAIL ADDRESS

Data format: ans99 Number of bytes transported: 99

➢ TYPE = 0033: OTHER PHONE NUMBER VERIFICATION RESULT

Data format: an1 Number of bytes transported: 1

Value	Description
1	Verified
2	Failed
3	Not performed

➢ TYPE = 0034: OTHER EMAIL ADDRESS VERIFICATION RESULT

Data format: an1 Number of bytes transported: 1

Value	Description
1	Verified
2	Failed
3	Not performed

CB2A Authorisation
Acceptor to Acquirer Protocol
(2AP Authorisation)

Volume 3.3 - Remote payment - Secured Electronic payment
-
Updates from v1.6.1 to 1.6.5

Table of contents

AUTHORISATION REQUEST AND RESPONSE

X: Mandatory C: Conditional F: Optional .: Non-processed field S: Message specific value Q: Same value as in the request QI: Same value as in the initial request RI: Same value as in the initial response

A: Authorisation request : **0100**	**B**: Response to authorization request : **0110**

N°	Definition	A Request	B Response	Comment
…				
6	Amount, cardholder billing	C(100)	FQ	May be used by a private Dynamic Currency Conversion application
…				
10	Conversion rate, cardholder billing	C(100)	FQ	May be used by a private Dynamic Currency Conversion application
…				
47	Additional data - national	C(2)	C(2)	
…				
24	File number	C(146)	CQ(146)	
…				
98	Card product identifier	.	C(164)	
…				
51	Currency code, cardholder billing	C(100)	FQ	May be used by a private Dynamic Currency Conversion application
…				
54	Additionnal amounts	C(118)	.	
…				
60	POI Amount before DCC conversion	C(100)	FQ	May be used by a private Dynamic Currency Conversion application
90	Amount, anticipated	C(174)	.	May be used in Card Validity Check for Visa and Mastercard
…			.	
56	Additional data	C(2)	C(2)	
…			.	
~~0006~~	~~Cardholder address~~	~~C(3)~~	~~.~~	Moved in Field 123
~~0008~~	~~Cardholder postcode~~	~~C(3)~~	~~.~~	Moved in Field 123
~~0009~~	~~Delivery address~~	~~C(3)~~	~~.~~	Moved in Field 123
~~0010~~	~~IP address~~	~~C(3)~~	~~.~~	Moved in Field 123
…			.	
0020	Resend counter	C(158)	.	Transit: mandatory in case of debt recovery MIT resubmission
…			.	

N°	Definition	A Request	B Response	Comment
0036	Merchant name	~~C(103)~~ C(157)	.	Mandatory not only for 3DS authentication but, more generally, when provided by the authentication solution
0037	Authentication date	~~C(103)~~ C(157)	.	Mandatory not only for 3DS authentication but, more generally, when provided by the authentication solution
0038	Authentication amount	~~C(103)~~ C(157)	.	Mandatory not only for 3DS authentication but, more generally, when provided by the authentication solution
…			.	
0046	~~Additional electronic commerce transaction data~~ Additional data - initial transaction	C(3)	.	
…				
59	National data	C(2)	C(2)	
…				
0201	~~ITP SA (Acceptance system terminal application identifier)~~ Acceptance System Components Identifier (ex ITP SA)	XS	FQ	Editorial
…				
0205	Acceptance system country code	~~C(148)~~ C(63)	.	Just a clarification
…				
0215	~~ITP PA (Point of interaction terminal application identifier)~~ POI Components Identifier (ex ITP PA)	C(3)	FQ	Editorial
…				
0300	Card security code	~~C(130)~~ X	C(12)	Just a clarification
…				
0407	Electronic commerce ~~security~~ authentication type	C(17)	.	
…				
0413	Modified electronic commerce ~~security~~ authentication type	.	C(29)	
…				
0416	Electronic commerce indicator	C(29)	C(163)	Visa sends the final ECI in response
…			.	
0800	Service attribute	~~C(13)~~ C(46)	FQ	Just a clarification
…				
115	~~Oscar~~ nexo data	C(2)	.	
0001	~~Oscar~~ nexo PoS identifier	C(3)	.	
0002	~~Oscar~~ nexo Acceptance System identifier	C(3)	.	
0003	~~Oscar~~ nexo certificate	C(3)	.	
118	Additional funds transfer data	C(2)	.	Funds transfer data

N°	Definition	A Request	B Response	Comment
0001	AFT - Nomenclature	C(108)	.	Funds transfer data
1000	Unique transfer reference	C(108)	.	Funds transfer data
1001	AFT - Application type identifier	C(108)	.	Funds transfer data
1002	Funding source	C(108)	.	Funds transfer data
1003	Transfer reason	C(108)	.	Funds transfer data
1004	Label or message	C(108)	.	Funds transfer data
1005	Customer language	C(108)	.	Funds transfer data
1006	Customer language message	C(108)	.	Funds transfer data
1007	Agreement ID	.	C(108)	Funds transfer data
2000	Payer/Participant identifier	C(108)	.	Funds transfer data
20008	Payer/State or province	C(108)	.	Funds transfer data
2001	Payer/PAN	C(108)	.	Funds transfer data
2002	Payer/First name	C(108)	.	Funds transfer data
2003	Payer/Middle name	C(108)	.	Funds transfer data
2004	Payer/Last name	C(108)	.	Funds transfer data
2005	Payer/Address	C(108)	.	Funds transfer data
2006	Payer/Postcode	C(108)	.	Funds transfer data
2007	Payer/City	C(108)	.	Funds transfer data
2009	Payer/Country	C(108)	.	Funds transfer data
2010	Payer/Phone	C(108)	.	Funds transfer data
2011	Payer/Birth date	C(108)	.	Funds transfer data
2012	Payer/BIC	C(108)	.	Funds transfer data
2013	Payer/IBAN	C(108)	.	Funds transfer data
2014	Payer/Account number	C(108)	.	Funds transfer data
2015	Payer/Identity document	C(108)	.	Funds transfer data
2016	Payer/ID number	C(108)	.	Funds transfer data
2017	Payer/ID country code	C(108)	.	Funds transfer data
2018	Payer/Nationality	C(108)	.	Funds transfer data
2019	Payer/Account number type	C(108)	.	Funds transfer data
2020	Payer/Identity Sub Type	C(108)	.	Funds transfer data
2021	Payer/Account identifier value	C(108)	.	Funds transfer data
2022	Payer/Account identifier type code	C(108)	.	Funds transfer data
3001	Payee/PAN	C(108)	.	Funds transfer data
3002	Payee/First name	C(108)	.	Funds transfer data
3003	Payee/Middle name	C(108)	.	Funds transfer data
3004	Payee/Last name	C(108)	.	Funds transfer data
3005	Payee/Address	C(108)	.	Funds transfer data
3006	Payee/Postcode	C(108)	.	Funds transfer data
3007	Payee/City	C(108)	.	Funds transfer data
3008	Payee/State or province	C(108)	.	Funds transfer data
3009	Payee/Country	C(108)	.	Funds transfer data
3010	Payee/Phone	C(108)	.	Funds transfer data
3011	Payee/Birth date	C(108)	.	Funds transfer data

N°	Definition	A Request	B Response	Comment
3012	Payee/BIC	C(108)	.	Funds transfer data
3014	Payee/Account number	C(108)	.	Funds transfer data
3015	Payee/Identity document	C(108)	.	Funds transfer data
3016	Payee/ID number	C(108)	.	Funds transfer data
3017	Payee/ID country code	C(108)	.	Funds transfer data
3018	Payee/Nationality	C(108)	.	Funds transfer data
3019	Payee/Account number type	C(108)	.	Funds transfer data
3020	Payee/Identity Sub Type	C(108)	.	Funds transfer data
3021	Payee/Account identifier value	C(108)	.	Funds transfer data
3022	Payee/Account identifier type code	C(108)	.	Funds transfer data
3023	Payee/Token authentication factor A	C(108)	.	Funds transfer data
119	Reserved for national use	C(2)	C(2)	
0001	Merchant scheme tokenisation indicator	C(3)	.	Tokenisation data element Refer to CBAE field 57-0012 Identifier = 10
0009	Scheme program merchant identifier	C(3)	.	Refer to same CBAE field to populate 126.5 Visa field
0013	Three-domain secure components availability	C(3)	.	Mandatory in case of unavailability of the 3DS Server module to inform the issuer
0015	Token authentication verification value	C(3)	.	Tokenisation data element Refer to same CBAE field
0016	Extended Electronic Commerce Indicator	.	C(163)	Refer to CBAE field 57-0015 sent by MCI in responses
0017	Authentication exemption status indicator	.	C(164)	Refer to same CBAE field sent by Visa issuer in responses
0022	3DS protocol version number	C(155)	.	Field 56-0022 contains only the 3DS major version but the whole number is expected by ICS
0028	Remote commerce acceptor identifier	C(163)	.	Refer to same CBAE field for MCI
0041	Purchase identifier type	C(29)	.	May by set by the acceptor
0042	Purchase identifier	C(29)	.	May by set by the acceptor
0047	Debit unique reference identifier	C(156)	F	Mandatory if available for credit (link to the associated debit)
0050	Payment by link indicator	C(3)	.	Refer to CBAE field, 112-0050, must be set by the PAT in case of payment by link
0083	Maximum clearing date	.	C(3)	Refer to CBAE field, 112-0083, may be sent by Visa in responses and calculated by the acquirer to inform the acceptor
00BC	Extended message to the transaction initiator	.	F	May be present in responses when the issuer has a

N°	Definition	A Request	B Response	Comment
				message to send and field 44-BC is too short
0204	Merchant payment gateway	C(3)	.	Refer to CBAE field, 112-0204, mandatory for MC
0208	Pre-authorisation duration	C(63)	.	Refer to CBAE field, 59-0208, may be set for MC
0359	Transaction eligible for token services	.	C(164)	Refer to CBAE field, 108-0359, may be sent by Visa in responses
0801	**Acceptor Advice Code**	.	**C(3)**	Refer to same CBAE field, to be built from Visa reponse codes categories and MCI MAC
0802	**Reattempt frozen period**	.	**C(161)**	Refer to same CBAE field, to be built according to Mastercard rules
0803	**Reattempt conditions**	.	**C(162)**	Refer to same CBAE field, to be built according to Visa rules
1001	Response data for clearing	.	C(3)	Refer to 'Conversion guide Data for clearing CB2A 1.6.5 – CBAE 5.06' published with CB2A 1.6.5
1104	Acceptor customer service phone number	C(3)	.	Refer to CBAE field, 112-0004 for MCI
1105	Acceptor phone number	C(3)	.	Refer to CBAE field, 112-0005 for MCI
1106	Acceptor additional contact information	C(3)	.	Refer to CBAE field, 112-0006 for MCI
1113	Service location address	C(166)	.	Refer to CBAE field, 112-1113 for MCI
1118	Recurring - Details	C(3)	.	Refer to CBAE field, 112-1118 for Visa
1119	Recurring - Indian cards	C(3)	.	Refer to CBAE field, 112-1119 for Visa
9F19	Token Requestor ID	C(3)	.	Tokenisation data element Refer to CBAE field 105-03
9F25	Last four digits of PAN	.	C(3)	Tokenisation data element Refer to CBAE field, 105-10
122	Acceptor URL address	C(3)	C(2)	Refer to CBAE field, 112-0003 for MCI
123	Customer related data	.	C(2)	
0006	Cardholder address	C(3)	.	Refer to CBAE field 57-0006
0008	Cardholder postcode	C(3)	.	Refer to CBAE field 57-0008
0009	Delivery address	C(3)	.	Refer to CBAE field 57-0009
0010	IP address	C(3)	.	Refer to CBAE field 57-0010
0021	Account name verification type	C(171)	.	Refer to CBAE field 119-0021 for MCI
0024	Account owner	C(169)	.	Refer to CBAE field 119-0024 for MCI and Visa

N°	Definition	A Request	B Response	Comment
0025	Account name request result	.	C(170)	Refer to CBAE field 119-0025 for MCI and Visa
0026	Account name match decision	.	C(170)	Refer to CBAE field 119-0026 for MCI and Visa
0031	Other phone number	C(172)	.	Refer to CBAE field 119-0031 for Visa
0032	Other email address	C(172)	.	Refer to CBAE field 119-0032 for MCI and Visa
0033	Other phone number verification result	.	C(172)	Refer to CBAE field 119-0033 for Visa
0034	Other email address verification result	.	C(172)	Refer to CBAE field 119-0034 for Visa

REVERSAL REQUEST AND RESPONSE

X: Mandatory C: Conditional F: Optional .: Non-processed field S: Message specific value Q: Same value as in the request QI: Same value as in the initial request RI: Same value as in the initial response

A: Payment reversal request : **0400/0401**	**B**: Response to payment reversal request : **0410**

N°	Definition	A Request	B Response	Comment
…				
6	Amount, cardholder billing	C(100)	FQ	May be used by a private Dynamic Currency Conversion application
…				
10	Conversion rate, cardholder billing	C(100)	FQ	May be used by a private Dynamic Currency Conversion application
…				
37	Retrieval reference number	~~CRI(116)~~ C(23)	.	
…				
51	Currency code, cardholder billing	C(100)	FQ	May be used by a private Dynamic Currency Conversion application
…				
55	Integrated circuit card system related data	C(2)	.	
~~0057~~	~~Track 2 equivalent data~~	~~CQI(104)~~	~~.~~	
…				
56	Additional data	C(2)	C(2)	
…			.	
0020	Resend counter	CQI(104)	.	Transit: mandatory in case of debt recovery MIT resubmission
…			.	
59	National data	C(2)	C(2)	
…				
0201	~~ITP SA (Acceptance system terminal application identifier)~~ Acceptance System Components Identifier (ex ITP SA)	XQI	.	Editorial
…				
0215	~~ITP PA (Point of interaction terminal application identifier)~~ POI Components Identifier (ex ITP PA)	CQI(104)	.	Editorial
…			.	
115	~~Oscar~~ nexo data	C(2)	.	Editorial
0001	~~Oscar~~ nexo PoS identifier	CQI(104)	.	Editorial
0002	~~Oscar~~ nexo Acceptance System identifier	CQI(104)	.	Editorial
0003	~~Oscar~~ nexo certificate	CQI(104)	.	Editorial

N°	Definition	A Request	B Response	Comment
119	Reserved for national use	C(2)	C(2)	
0047	Debit unique reference identifier	CQI(104)	.	Refer to request
00BC	Extended message to the transaction initiator	.	F	Refer to request
1119	Recurring - Indian cards	C(3)	.	Refer to request

COMMENTS

N°	Comment
…	
2	See list of types
3	Mandatory if available
…	
12	Must be absent
13	Mandatory for a debit transaction if ERT=27, 28 or 80, mandatory for a debit transaction if cumulative amount mandatory if available for a refund
17	Mandatory for an electronic commerce debit transaction CIT, mandatory for MIT with 3RI authentication, mandatory if available for a CIT refund
…	
23	~~Mandatory in case of pre-authorisation; if managed by the Acquirer; identical value for all related transactions~~ Mandatory if managed by the Acceptor
29	Mandatory if available, otherwise absent
…	
46	Mandatory if needed to identify the corresponding service
…	
63	Mandatory if data element was provided to the system (parameters downloading), otherwise absent
…	
98	Mandatory for a debit transaction in case of: • pre-authorisation, incremental authorisation, additional ~~invoice~~ charges, no-show transaction or ~~cumulative amount~~ aggregated payments, • mandatory for a card validity check, mandatory if available for a refund transaction
…	
100	May be used by a private Dynamic Currency Conversion application
…	
108	May be present. Presence conditions are specific to each scheme.
…	
118	Mandatory if at least one of the following amount types is present
…	
146	~~Mandatory for debit transaction in case of a pre-authorisation, additional invoice, cumulative amount; mandatory for a card-to-card funds transfer or Original Credit; mandatory if available for an unattended terminal with network access; mandatory if available for a credit~~ Mandatory for a debit transaction when (service attribute = 2-Pre-authorisation or 3-Additional charges or 5-Aggregation); mandatory for a card-to-card funds transfer or Original Credit; mandatory if available for a refund
…	
148	Mandatory for a secured electronic commerce debit transaction executed in EMV mode; mandatory if available for a credit transaction, otherwise absent
…	
155	Mandatory if 3DS authentication
156	Mandatory if available for a credit transaction
157	Mandatory if provided by the implemented authentication solution
158	Mandatory for resubmission
…	
161	Mandatory if field 119 type 0801 is present and field 119 type 0803 is absent
162	Mandatory if field 119 type 0801 is present and field 119 type 0802 is absent
163	Mandatory for some international schemes
164	May be sent by some international schemes
166	May by set when the sale location is different from the merchant store location; otherwise absent
169	Mandatory for the account name inquiry service
170	Can be set for the account name inquiry service

N°	Comment
171	Mandatory for the account name inquiry service in funds transfer context
172	Mandatory for the Account Verification Request service
174	May be present for a card validity check, otherwise absent