Annex C
(normative)

Data element definitions

C.1 Data element summary in bit number order

Table C.1 summarizes the defined data elements and sub-elements in bit number order.

The representation abbreviations in the "Format" and "Representation" columns in Table C.1 shall contain the values specified in B.1.

NOTE   Annex J may be used to assist implementations that continue to use previous editions of ISO 8583.

Table C.1 — Data elements in bit number order

Bit	Cons	Comp	Name	Format	Representation
1			Continuation bit		b 8
2			PAN	LLVAR	n..19
3	X		Processing code		an 6
	3-1		Transaction type code		an 2
	3-2		Account type code 1		an 2
	3-3		Account type code 2		an 2
4	X		Amount transaction		n 16
	4-1		Currency code amount transaction		n 3
	4-2		Currency minor unit amount transaction		n 1
	4-3		Value amount transaction		n 12
5	X		Amount reconciliation		n 16
	5-1		Currency code amount reconciliation		n 3
	5-2		Currency minor unit amount reconciliation		n 1
	5-3		Value amount reconciliation		n 12
6	X		Amount cardholder billing		n 16
	6-1		Currency code amount cardholder billing		n 3
	6-2		Currency minor unit amount cardholder billing		n 1

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Bit	Cons	Comp	Name	Format	Representation
	6-3		Value amount cardholder billing		n 12
7			Date and time transmission	MMDDhhmmss	n 10
8	X		Amount cardholder billing fee		n 12
	8-1		Currency code amount cardholder billing fee		n 3
	8-2		Currency minor unit amount cardholder billing fee		n 1
	8-3		Value amount cardholder billing fee		n 8
9			Conversion rate reconciliation		n 8
10			Conversion rate cardholder billing		n 8
11			Systems trace audit number		n 12
12	X		Date and time local transaction	CCYYMMDDhhmmss	n 14
	12-1		Date local transaction	CCYYMMDD	n 8
	12-2		Time local transaction	hhmmss	n 6
13			Date effective	CCYYMM	n 6
14			Date expiration	YYMM	n 4
15			Date settlement	CCYYMMDD	n 8
16			Date conversion	MMDD	n 4
17			Date capture	MMDD	n 4
18	X		Message error indicator	LLLVAR	ansb..140
	18-1		Error severity code		n 2
	18-2		Message error code		n 4
	18-3		Data element in error		n 3
	18-4		Data sub-element in error		n 2
	18-5		Dataset identifier in error		b 1
	18-6		Dataset bit or tag in error		b 2
19			Country code acquiring institution		n 3
20			Country code PAN		n 3
21	X		Transaction life cycle identification data		ans 22
	21-1		Life cycle support indicator		ans 1

Bit	Cons	Comp	Name	Format	Representation
	21-2		Life cycle trace identifier		ans 15
	21-3		Life cycle transaction sequence number		n 2
	21-4		Life cycle authentication token		n 4
22	X		POS data code		b 16
	22-1		Card-reading method used at POS		b 4
	22-2		Cardholder verification method used at POS		b 4
	22-3		POS environment		b 4
	22-4		Security characteristics		b 4
23			Card sequence number		n 3
24			Function code		n 3
25			Message reason code		n 4
26			Merchant category code		n 4
27	X		POS capability		anb 27
	27-1		POS card-reading capability		b 4
	27-2		POS cardholder verification capability		b 4
	27-3		Approval code length		n 1
	27-4		Cardholder receipt data length		n 3
	27-5		Card acceptor receipt data length		n 3
	27-6		Cardholder display data length		n 3
	27-7		Card acceptor display data length		n 3
	27-8		ICC scripts data length		n 3
	27-9		Magnetic stripe track 3 rewrite capability		a 1
	27-10		Card capture capability		a 1
	27-11		Pin input length capability		b 1
28			Date reconciliation	CCYYMMDD	n 8
29			Reconciliation indicator		n 3
30	X		Amounts original		n 32
	30-1		Original amount transaction		n 16
	30-1.1		Currency code original amount transaction		n 3

Bit	Cons	Comp	Name	Format	Representation
	30-1.2		Currency minor unit original amount transaction		n 1
	30-1.3		Value original amount transaction		n 12
	30-2		Original amount reconciliation		n 16
	30-2.1		Currency code original amount reconciliation		n 3
	30-2.2		Currency minor unit original amount reconciliation		n 1
	30-2.3		Value original amount reconciliation		n 12
31			Acquirer reference number		n 23
	31-1		User format identifier		n 1
	31-2		Acquirer number		n 6
	31-3		Julian processing date	YDDD	n 4
	31-4		Sequence number		n 11
	31-5		Luhn check digit		n 1
32			Acquiring institution identification code	LLVAR	n..11
33			Forwarding institution identification code	LLVAR	n..11
34		X	Acceptance Environment Data	LLLLVAR	b..9999
		34-01, 34-73	Account-based digital signature	LLVAR	b..90
		34-01, 34-73	Card acceptor certificate serial number	LLVAR	b..16
		34-01, 34-73	Cardholder certificate serial number	LLVAR	b..16
		34-01, 34-73	XID		b 20
		34-01, 34-73	Authentication value		b 20
		34-01, 34-73	Authentication code		b..20
		34-01, 34-73	Authentication message version	LLVAR	ans..8
		34-01, 34-73	Authentication message category		an 2

Bit	Cons	Comp	Name	Format	Representation
		34-01, 34-73	Authentication merchant name	LLVAR	ans..40
		34-01, 34-73	Authentication browser IP address	LLVAR	ans..45
		34-01, 34-73	Authentication device information	LLLLVAR	ans..9999
		34-01, 34-73	Authentication purchase amount	LLVAR	ans..48
		34-01, 34-73	Authentication purchase currency		n 3
		34-01, 34-73	Authentication purchase date and time		n 14
		34-01, 34-73	Authentication address match indicator		a 1
		34-01, 34-73	Authentication intermediary transaction identifier	LLVAR	ans..36
		34-01, 34-73	Authentication server transaction identifier		ans..36
		34-01, 34-73	Authentication status		a 1
		34-01, 34-73	APP IP address	LLVAR	ans..45
		34-01, 34-73	Shipping indicator		an 2
		34-02, 34-74	Initiating party	0=customer, 1=merchant	an 1
		34-02, 34-74	Secure temporary storage, POS device capable	1 = true	an 1
		34-02, 34-74	Secure temporary storage, issuer capable	1 = true	an 1
		34-02, 34-74	Secure temporary storage, transaction utilized	1 = true	an 1
		34-02, 34-74	High-risk transaction, acceptor	1 = true	an 1
		34-02, 34-74	Risk conditions, acceptor	Constructed (array)	an 2, iterative (may repeat up to 30 times)

Bit	Cons	Comp	Name	Format	Representation
		34-02, 34-74	Deferred delivery	1 = true	an 1
		34-02, 34-74	Acceptance environment authentication outage indicator	0 = no outage, 1 = outage	n 1
		34-02, 34-74	Payment Credential Merchant Relationship Indicator (use case, autofill on the browser site)	0=no link 1=linked	an1
		34-03, 34-75	Card activation requested	Y = yes, N = no	a 1
		34-03, 34-75	Cashback requested	Y = yes, N = no	a 1
		34-03, 34-75	DCC requested	Y = yes, N = no	a 1
		34-03, 34-75	Instant payment requested	Y = yes, N = no	a 1
		34-03, 34-75	Loyalty requested	Y = yes, N = no	a 1
		34-03, 34-75	Account balance requested	Y = yes, N = no	a 1
		34-04, 34-76	Card activation result		an 2
		34-04, 34-76	Cashback result		an 2
		34-04, 34-76	DCC result		an 2
		34-04, 34-76	Instant payment result		an 2
		34-04, 34-76	Loyalty result		an 2
		34-04, 34-76	Account balance result		an 2
		34-05, 34-77	Terminal serial number	LLVAR	ans..50
		34-05, 34-77	Terminal software version	LLVAR	ans..70
		34-05, 34-77	Terminal location, latitude/longitude	LLVAR	ans..25

Bit	Cons	Comp	Name	Format	Representation
		34-05, 34-77	Terminal certification identification	LLVAR	ans..35
35			Track 2 data	LLVAR	z..37
36			Track 3 data	LLLVAR	z..104
37			Retrieval reference number		anp 12
38			Approval code		anp 6
39			Action code		n 4
40			Service code		n 3
41			Card acceptor terminal identification		ans 16
42			Card acceptor identification code	LLVAR	ans..35
43		X	Card acceptor name/location	LLLLVAR	ansb..9999
		43-01/71	Card acceptor additional address information	LLLVAR	an..255
		43-01/71	Card acceptor additional contact information	LLVAR	ans..30
		43-01/71	Card acceptor city	LLVAR	ans..50
		43-01/71	Card acceptor country code		a 3
		43-01/71	Card acceptor customer service phone number		ans 16
		43-01/71	Card acceptor email address	LLVAR	ans..99
		43-01/71	Card acceptor geographic location	LLVAR	ans..19
		43-01/71	Card acceptor internet URL	LLLVAR	ans..255
		43-01/71	Card acceptor name	LLVAR	ans..50
		43-01/71	Card acceptor phone number		ans 16
		43-01/71	Card acceptor postal code		ans 10
		43-01/71	Card acceptor state province or region code		ans 3
		43-01/71	Card acceptor street address	LLVAR	ans..99
44		X	Additional response data	LLLLVAR	ansb..9999
		44-71	Card acceptor display data	LLVAR	ans. 99
		44-71	Card acceptor receipt data	LLVAR	ans..99
		44-71	Card issuer telephone number		ans 16
		44-71	Cardholder receipt data	LLVAR	ans..99
		44-71	Cardholder display data	LLVAR	ans..99

Bit	Cons	Comp	Name	Format	Representation
45			Track 1 data	LLVAR	ans..76
46	X		Amounts fees	LLLVAR	ans..216
		46-1	Fee type code		n 2
		46 –2	Amount fee		xn 13
		46-2.1	Currency code amount fee		n 3
		46-2.2	Currency minor unit amount fee		n 1
		46-2.3	Value amount fee		n 8
		46-3	Conversion rate fee		n 8
		46-4	Amount reconciliation fee		xn 13
		46-4.1	Currency code amount reconciliation fee		n 3
		46-4.2	Currency minor unit reconciliation fee		n 1
		46-4.3	Value reconciliation fee		n 8
47			Additional data national	LLLVAR	ans..999
48			Additional data private	LLLVAR	ans..999
49		X	Verification data	LLLLVAR	ans..9999
		49-01/71	Additional identification reference number	LLVAR	ans..30
		49-01/71	Additional identification type		n 1
		49-01/71	Card verification data		n 4
		49-01/71	Cardholder billing address compressed		ans 16
		49-01/71	Cardholder billing postal code		ans 10
		49-01/71	Cardholder billing street address		ans 40
		49-02/72	Address verification result code		an 1
50			Encryption data	LLLLVAR	ansb..9999
51		X	Customer related data	LLLLVAR	ansb..9999
		51-01/71	Payment account reference (PAR)	LLVAR	an..35
		51-01/71	PAN reference identifier	LLVAR	ans..35
		51-01/71	Account Reference Code		n 2
		51-01/71	Account Identifier	LLVAR	an..70
		51-01/71	Account Identifier Type		an 2

Bit	Cons	Comp	Name	Format	Representation
		51-02/72 51-05/75	Customer phone number, home	LLVAR	ans..16
		51-02/72 51-05/75	Customer phone number, business	LLVAR	ans..16
		51-02/72 51-05/75	Customer phone number, mobile	LLVAR	ans..16
		51-02/72 51-05/75	Customer phone number, other	LLVAR	ans..16
		51-02/72 51-05/75	Customer email address, personal	LLVAR	ans..99
		51-02/72 51-05/75	Customer email address, business	LLVAR	ans..99
		51-02/72 51-05/75	Customer email address, other	LLVAR	ans..99
		51-03/73	Alien registration number	LLVAR	ans..35
		51-03/73	Alien registration number issuing country code		n 3
		51-03/73	Customer identification, unspecified	LLVAR	ans..99
		51-03/73	Driver licence	LLVAR	ans..35
		51-03/73	Driver licence issuing country code		n 3
		51-03/73	Driver licencelicence issuing state, province or region code		ans 3
		51-03/73	Law enforcement identification	LLVAR	ans..35
		51-03/73	Law enforcement identification issuing country code		n 3
		51-03/73	Law enforcement identification	LLVAR	ans..35
		51-03/73	Military identification	LLVAR	ans..35
		51-03/73	Military identification rank	LLVAR	ans..35
		51-03/73	Military identification issuing country code		n 3
		51-03/73	National identification	LLVAR	ans..35
		51-03/73	National identification issuing country code		n 3

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Bit	Cons	Comp	Name	Format	Representation
		51-03/73	Passport	LLVAR	ans..35
		51-03/73	Passport issuing country code		n 3
		51-03/73	Proxy identification	LLVAR	ans..99
		51-03/73	Social security number	LLVAR	ans..35
		51-03/73	Tax identification	LLVAR	ans..35
		51-03/73	Tax identification issuing country code		n 3
		51-03/73	Tax identification issuing state, province or region code		ans 3
		51-03/73	Travel identification, non-passport	LLVAR	ans..35
		51-03/73	Travel identification issuing country code		n 3
		51-03/73	Travel identification issuing state, province or region code		ans 3
		51-03/73	Travel identification issuing entity	LLVAR	ans..35
		51-03/73	Customer reference code		n 2
		51-03/73	Identification type Code		a 4
		51-03/73	Identification subtype	LLVAR	ans..35
		51-03/73	Identification value	LLVAR	ans..70
		51-03/73	Identification Issuing entity	LLVAR	ans...50
		51-03/73	Identification Issuing Country Code		a 3
		51-03/73	Identification Issuing Sub-division Minor Code	LLVAR	an..3
		51-03/73	Identification Issuing Sub-division Major Code	LLVAR	an..3
		51-04/74	Wallet provider identification	LLVAR	ans..35
		51-04/74	Wallet provider identification assigner	LLVAR	ans..35
		51-04/74	Wallet provider country code		n 3
		51-04/74	Wallet provider short name	LLVAR	ans..35
		51-04/74	Wallet, additional data	LLVAR	ans..256
		51-04/74	Wallet Account ID	LLVAR	ans..70
		51-04/74	Wallet Account Email	LLVAR	ans..256

Bit	Cons	Comp	Name	Format	Representation
		51-04/74	Wallet provider Reason codes for the Assessment result	LLVAR	ans..70
		51-05/75	Account reference code		n 2
		51-05/75	Account owner designation		n 2
		51-05/75	Account owner name, full	LLVAR	an..99
		51-05/75	Account owner name, given	LLVAR	an..99
		51-05/75	Account owner name, middle	LLVAR	an..35
		51-05/75	Account owner name, last	LLVAR	an..35
		51-05/75	Account owner address line 1	LLVAR	ans..99
		51-05/75	Account owner address line 2	LLVAR	ans..99
		51-05/75	Account owner street name	LLVAR	ans..99
		51-05/75	Account owner building number	LLVAR	ans..16
		51-05/75	Account owner postal code	LLVAR	ans..16
		51-05/75	Account owner city name	LLVAR	ans..50
		51-05/75	Account owner country sub division code, minor	LLVAR	ans..16
		51-05/75	Account owner country sub division code, major	LLVAR	ans..16
		51-05/75	Account owner country	LLVAR	a 3
		51-05/75	Account Owner Nationality		a 3
		51-05/75	Account Owner Country of birth		a 3
		51-05/75	Account Owner Occupation	LLVAR	ans..35
52			PIN data		b 8
53			Security related control information	LLVAR	b..48
54	X		Amounts additional	LLLVAR	ans..126
	54-1		Account type additional amounts		an 2
	54-2		Amount type additional amounts		an 2
	54-3		Amount additional amounts		xn 17
	54-3.1		Currency code amount additional amounts		n 3
	54-3.2		Currency minor unit amount additional amounts		n 1
	54-3.3		Value amount additional amounts		n 12
55		X	ICC system related data	LLLLVAR	b..9999

Bit	Cons	Comp	Name	Format	Representation
56	X		Original data elements	LLVAR	n..41
	56-1		Original message type identifier		n 4
	56-2		Original system trace audit number		n 12
	56-3		Original date and time local transaction	CCYYMMDDhhmmss	n 14
	56-4		Original acquiring institution identification code		n..11
57			Authorization life cycle code		n 3
58			Authorizing agent institution identification code	LLVAR	n..11
59			Transport data	LLLVAR	ans..999
60			Reserved for national use	LLLVAR	ans..999
61			Reserved for national use	LLLVAR	ans..999
62			Reserved for private use	LLLVAR	ans..999
63			Reserved for private use	LLLVAR	ans..999
64			MAC field		b 4
65			Reserved for ISO use		b 8
66	X		Amounts original fees	LLLVAR	ans..216
	66-1		Original fee type code		n 2
	66-2		Original amount fee		xn 13
	66-2.1		Currency code original amount fee		n 3
	66-2.2		Currency minor unit original amount fee		n 1
	66-2.3		Value original amount fee		n 8
	66-3		Original conversion rate fee		n 8
	66-4		Original amount reconciliation fee		xn 13
	66-4.1		Currency code original amount reconciliation fee		n 3
	66-4.2		Currency minor unit original amount reconciliation fee		n 1
	66-4.3		Value original amount reconciliation fee		n 8
67			Extended payment data		n 2
68	X		Batch/file transfer message control		an 9

Bit	Cons	Comp	Name	Format	Representation
	68-1		Batch/file transfer acknowledgement code		an 1
	68-2		Batch/file transfer message sequence number		n 8
69	X		Batch/file transfer control data		ans 40
	69-1		Batch/file transfer message count		n 8
	69-2		Batch/file transfer file identification		ans 32
70	X		File transfer description data		n 18
	70-1		File transfer file size		n 6
	70-2		File transfer elementary data record count		n 6
	70-3		File transfer remaining elementary data record count		n 6
71		X	Additional transaction specific data	LLLLVAR	ansb..9999
		71-01/71	Exchange rate provider	LLVAR	ans..70
		71-01/71	Exchange rate identification	LLVAR	ans..70
		71-01/71	Exchange rate		n 8
		71-01/71	Base currency code, originator		n 3
		71-01/71	Counter currency code, originator		n 3
		71-01/71	Exchange rate, originator		n 8
		71-01/71	Exchange rate type, originator	1=buy, 2=sell, 3=mid, 4=agreed	n 1
		71-01/71	Exchange rate agreement type, originator	0=normal, 1=spot, 2=forward contract	n 1
		71-01/71	Base currency code, destination		n 3
		71-01/71	Counter currency code, destination		n 3
		71-01/71	Exchange rate, destination		n 8
		71-01/71	Exchange rate type, destination	1=buy, 2=sell, 3=mid, 4=agreed	n 1
		71-01/71	Exchange rate agreement type, destination	0=normal, 1=spot, 2=forward contract	n 1

Bit	Cons	Comp	Name	Format	Representation
		71-01/71	Exchange rate lock requested	0=not requested, 1=requested	n 1
		71-01/71	Exchange rate lock eligible	0=not eligible, 1=eligible	n 1
		71-01/71	Exchange rate lock applied	0=not applied, 1=applied	n 1
		71-02/72	Domestic indicator	1 = domestic	n 1
		71-02/72	Domestic qualification	LLVAR	ans..35
		71-02/72	On-us Indicator	0=non on-us transaction 1=on-us transaction	n 1
		71-02/72	Settlement Service Type Proposed	LLVAR	ans..35
		71-02/72	Settlement Service Type Applied	LLVAR	ans..35
		71-03/73	Transaction Currency		n 3
		71-03/73	Currency Minor Unit of Transaction Amount		n 1
		71-03/73	Transaction Amount	LLVAR	n..18
		71-03/73	Reconciliation Currency Code		n 3
		71-03/73	Currency Minor Unit of Reconciliation Amount		n 1
		71-03/73	Reconciliation Amount	LLVAR	n..18
		71-03/73	Cardholder Billing Currency Code		n 3
		71-03/73	Currency Minor Unit of Cardholder Billing Amount		n 1
		71-03/73	Cardholder Billing Amount	LLVAR	n..18
		71-03/73	Original Transaction Currency Code		n 3
		71-03/73	Original Currency Minor Unit of Transaction Amount		n 1
		71-03/73	Original Transaction Amount	LLVAR	n..18
		71-03/73	Original Reconciliation Currency		n 3
		71-03/73	Original Currency Minor Unit of Reconciliation Amount		n 1
		71-03/73	Original Reconciliation Amount	LLVAR	n..18
		71-03/73	Original Cardholder Billing Currency		n 3

Bit	Cons	Comp	Name	Format	Representation
		71-03/73	Original Currency Minor Unit of Cardholder Amount Billing		n 1
		71-03/73	Original Cardholder Billing Amount	LLVAR	n..18
		71-04/74	Fee Type code		n 2
		71-04/74	Fee Program	LLVAR	ans..35
		71-04/74	Fee Descriptor	LLVAR	ans..35
		71-04/74	Sign (C=Credit, D=Debit)		a 1
		71-04/74	Minor unit of Fee Amount and reconciliation Fee Amount		n 1
		71-04/74	Currency Code, Fee Amount		n 3
		71-04/74	Fee Amount	LLVAR	n..18
		71-04/74	Currency Code, Reconciliation Fee Amount		n 3
		71-04/74	Reconciliation Fee Amount	LLVAR	n..18
		71-04/74	Reconciliation Exchange Rate	LLVAR	n..8
		71-04/74	Assigner ACQR= Acquirer, AGNT=Agent, ISUR=Issuer		a 4
		71-05/75	Amount Type code		n 2
		71-05/75	Sign (C=Credit, D=Debit)		a 1
		71-05/75	Currency Minor Unit of Transaction Amount		n 1
		71-05/75	Amount Value	LLVAR	n..18
		71-06/76	Credit Amount	LLVAR	n..24
		71-06/76	Credit Chargeback Amount	LLVAR	n..24
		71-06/76	Credit Reversal Amount	LLVAR	n..24
		71-06/76	Debit Amount	LLVAR	n..24
		71-06/76	Debit Chargeback Amount	LLVAR	n..24
		71-06/76	Debit Reversal Amount	LLVAR	n..24
		71-06/76	Currency Code Amount, Net Reconciliation		n..3
		71-06/76	Currency minor unit amount, Net reconciliation		n 1
		71-06/76	Amount, Net Reconciliation	LLVAR	n..24
		71-07/77	life cycle support indicator		an 1

Bit	Cons	Comp	Name	Format	Representation
		71-07/77	life cycle trace Identifier	LLVAR	ans...36
		71-07/77	life cycle transaction sequence number		an 2
		71-07/77	life cycle authentication token	LLVAR	ans...36
		71-07/77	Associated Transaction Life Cycle Trace Identifier	LLVAR	ans...36
		71-07/77	Life Cycle trace identifier validation	LLVAR	ans...37
72			Data record	LLLLVAR	ansb..9999
73			Date action	CCYYMMDD	n 8
74	X		Reconciliation data primary		n 156
	74-1		Credits amount		n 16
	74-2		Credits number		n 10
	74-3		Credits chargeback amount		n 16
	74-4		Credits chargeback number		n 10
	74-5		Credits reversal amount		n 16
	74-6		Credits reversal number		n 10
	74-7		Debits amount		n 16
	74-8		Debits number		n 10
	74-9		Debits chargeback amount		n 16
	74-10		Debits chargeback number		n 10
	74-11		Debits reversal amount		n 16
	74-12		Debits reversal number		n 10
75	X		Reconciliation data secondary		n 90
	75-1		Authorizations number		n 10
	75-2		Authorizations reversal number		n 10
	75-3		Inquiries reversal number		n 10
	75-4		Inquiries number		n 10
	75-5		Fee collections number		n 10
	75-6		Payments number		n 10
	75-7		Payments reversal number		n 10
	75-8		Transfer number		n 10
	75-9		Transfer reversal number		n 10
76-92			Reserved for ISO use	LLLLVAR	ansb..9999 a

Bit	Cons	Comp	Name	Format	Representation
93			Transaction destination institution identification code	LLVAR	n..11
94			Transaction originator institution identification code	LLVAR	n..11
95			Card issuer reference data	LLVAR	ans..99
96			Key management data	LLLVAR	b..999
97	X		Amount net reconciliation		xn 21
		97-1	Currency code amount net reconciliation		n 3
		97-2	Currency minor unit amount net reconciliation		n 1
		97-3	Value amount net reconciliation		xn 17
98			Payee		ans 25
99			Settlement institution identification code	LLVAR	an..11
100			Receiving institution identification code	LLVAR	n..11
101			File name	LLVAR	ans..99
102			Account identification 1	LLVAR	ans..28
103			Account identification 2	LLVAR	ans..28
104		X	Transaction specific data	LLLLVAR	ansb..9999
		104- 01/7A	Date, anticipated	CCYYMMDD	n 8
		104-71	Free-form description data	LLLVAR	ans..999
		104-72	Invoice alternate tax identifier		ans 15
		104-72	Invoice amount alternate tax		n 12
		104-72	Invoice amount alternate tax indicator	Y = yes, N = no, space = unknown	as 1
		104-72	Invoice amount bottom line discount		n 12
		104-72	Invoice amount duty		n 12
		104-72	Invoice amount freight excluding tax		n 12
		104-72	Invoice amount freight including tax		n 12
		104-72	Invoice amount total tax		n 12
		104-72	Invoice card acceptor customer reference number	LLVAR	an..17

Bit	Cons	Comp	Name	Format	Representation
		104-72	Invoice card acceptor invoice reference number	LLVAR	an..12
		104-72	Invoice card acceptor order number	LLVAR	an..15
		104-72	Invoice card acceptor tax reference number	LLVAR	an..20
		104-72	Invoice card acceptor type		ans 4
		104-72	Invoice cardholder order reference number	LLVAR	an..22
		104-72	Invoice cardholder's tax reference number	LLVAR	an..13
		104-72	Invoice cost centre	LLVAR	a..20
		104-72	Invoice customer reference	LLVAR	ans..20
		104-72	Invoice destination country code		an 3
		104-72	Invoice destination postal code	LLVAR	an..10
		104-72	Invoice destination state/province code		ans 3
		104-72	Invoice freight tax rate		n 4
		104-72	Invoice order date	CCYYMMDD	n 8
		104-72	Invoice original invoice number	LLVAR	an..15
		104-72	Invoice ship from postal code	LLVAR	an..10
		104-72	Invoice tax indicator	0 = Tax not included, 1 = Tax included	n 1
		104-72	Invoice value excluding tax		n 12
		104-73	Line item amount discount		n 12
		104-73	Line item amount tax		n 12
		104-73	Line item commodity code	LLVAR	an..16
		104-73	Line item dataset sequence number		b 2
		104-73	Line item descriptor	LLVAR	an..40
		104-73	Line item discount indicator	Y = yes, N = no, space = unknown	as 1
		104-73	Line item discount rate		ans 5
		104-73	Line item product code	LLVAR	an..15
		104-73	Line item product quantity	LLVAR	n..12

Bit	Cons	Comp	Name	Format	Representation
		104-73	Line item quantity minor unit		n 1
		104-73	Line item tax rate		n 5
		104-73	Line item tax type		ans 4
		104-73	Line item unit of measure	LLVAR	a..12
		104-73	Line item unit price excluding tax	LLVAR	n..12
		104-73	Line item value debit/credit indicator	D = debit, C = credit, space = unknown	as 1
		104-73	Line item value excluding tax		n 12
		104-73	Line item value including tax		n 12
		104-74	Airline amount total fare		n 12
		104-74	Airline amount total fees		n 12
		104-74	Airline amount total taxes		n 12
		104-74	Airline carrier name	LLVAR	an..19
		104-74	Airline customer reference	LLVAR	ans..20
		104-74	Airline date ticket issue	CCYYMMDD	n 8
		104-74	Airline invoice number		an 6
		104-74	Airline original currency code		n 3
		104-74	Airline original invoice amount		n 12
		104-74	Airline passenger name	LLVAR	ans..29
		104-74	Airline plan number		an 2
		104-74	Airline ticket agency name	LLVAR	an..25
		104-74	Airline ticket issue address	LLVAR	ans..16
		104-74	Airline ticket number	LLVAR	an..15
		104-74	Airline travel agency code	LVAR	an 8
		104-75	Trip leg amount departure tax		n 12
		104-75	Trip leg amount fare		n 12
		104-75	Trip leg amount fees		n 12
		104-75	Trip leg amount taxes		n 12
		104-75	Trip leg arrival time		n 4
		104-75	Trip leg arrival time segment code	A = a.m., P = p.m., space = unknown	as 1

Bit	Cons	Comp	Name	Format	Representation
		104-75	Trip leg carrier code		an 2
		104-75	Trip leg class of travel		an 2
		104-75	Trip leg conjunction ticket number	LLVAR	an..15
		104-75	Trip leg coupon number		ans 1
		104-75	Trip leg dataset sequence number		b 2
		104-75	Trip leg date of travel	CCYYMMDD	n 8
		104-75	Trip leg departure airport		an 5
		104-75	Trip leg departure time		n 4
		104-75	Trip leg departure time segment code	A = a.m., P = p.m., space = unknown	as 1
		104-75	Trip leg destination code		an 5
		104-75	Trip leg endorsements/restrictions	LLVAR	ans..20
		104-75	Trip leg exchange ticket number	LLVAR	an..15
		104-75	Trip leg fare basis code	LLVAR	an..15
		104-75	Trip leg flight number		ans 5
		104-75	Trip leg number		n 2
		104-75	Trip leg stop over code		an 1
		104-76	Auto amount adjusted		n 12
		104-76	Auto amount adjusted indicator code		as 1
		104-76	Auto amount vehicle insurance		n 12
		104-76	Auto customer service toll-free phone number		ans 16
		104-76	Auto distance unit of measure	K = kilometres, M = miles	a 1
		104-76	Auto maximum free miles/kilometres		n 4
		104-76	Auto odometer reading		n 8
		104-76	Auto program code		ans 2
		104-76	Auto rental address	LLVAR	ans..26
		104-76	Auto rental agreement reference	LLVAR	ans..25
		104-76	Auto rental city	LLVAR	ans..18
		104-76	Auto rental class identifier		ans 4
		104-76	Auto rental country		ans 3

Bit	Cons	Comp	Name	Format	Representation
		104-76	Auto rental date	CCYYMMDD	n 8
		104-76	Auto rental distance		n 5
		104-76	Auto rental location identifier		ans 10
		104-76	Auto rental rate		n 12
		104-76	Auto rental rate time period	D = daily, W = weekly, M = monthly, space = unknown	as 1
		104-76	Auto rental state/province		ans 3
		104-76	Auto rental time	HHMM	n 4
		104-76	Auto renter name	LLVAR	ans..29
		104-76	Auto return address	LLVAR	ans..26
		104-76	Auto return city	LLVAR	ans..18
		104-76	Auto return country		ans 3
		104-76	Auto return date	CCYYMMDD	n 8
		104-76	Auto return location identifier		ans 10
		104-76	Auto return state/province		ans 3
		104-76	Auto return time	HHMM	n 4
		104-76	Auto vehicle insurance indicator	Y = yes, N = no, space = unknown	as 1
		104-76	Auto vehicle registration number		an 17
		104-77	Lodging amount bar/mini-bar		n 12
		104-77	Lodging amount billing adjustment		n 12
		104-77	Lodging amount gift shop		n 12
		104-77	Lodging amount laundry/dry cleaning		n 12
		104-77	Lodging amount other services		n 12
		104-77	Lodging amount other services indicator		ans 3
		104-77	Lodging amount phone charges		n 12
		104-77	Lodging amount restaurant/room service		n 12
		104-77	Lodging amount room rate		n 12
		104-77	Lodging amount room tax		n 12

Bit	Cons	Comp	Name	Format	Representation
		104-77	Lodging customer service toll-free phone number		ans 16
		104-77	Lodging date arrival	CCYYMMDD	n 8
		104-77	Lodging date departure	CCYYMMDD	n 8
		104-77	Lodging facility phone number		ans 16
		104-77	Lodging folio number		ans 10
		104-77	Lodging program code		ans 2
		104-78	Fleet amount bottom line discount		n 12
		104-78	Fleet amount total tax		n 12
		104-78	Fleet driver number/other identification number	LLVAR	n..17
		104-78	Fleet line item value excluding tax		n 12
		104-78	Fleet line item value including tax		n 12
		104-78	Fleet motor fuel oil company brand name		n 4
		104-78	Fleet motor fuel prompt code		n 1
		104-78	Fleet motor fuel service type code		ans 1
		104-78	Fleet odometer reading		n 8
		104-78	Fleet product code	LLVAR	an..15
		104-78	Fleet product quantity	LLVAR	n..12
		104-78	Fleet quantity minor unit		n 1
		104-78	Fleet unit of measure	LLVAR	ans..12
		104-78	Fleet unit price excluding tax		n 12
		104-78	Fleet unit price including tax		n 12
		104-78	Fleet vehicle registration number		an 17
		104- 17/87	Prepayment		an 1
		104-18/88	Recurring Payment Type		n 1
		104-18/88	Payment Amount Indicator Per Transaction		n 1
		104-18/88	Number of Recurring Payment	01-99	n 2
		104-18/88	Frequency of Recurring Payment		n 2
		104-18/88	Registration Reference Number	LLVAR	an..35
		104-18/88	Maximum Recurring Payment Amount		n 12

Bit	Cons	Comp	Name	Format	Representation
		104-18/88	Validation Indicator		n 1
		104-19/89	Purchase Type		an 1
		104-19/89	Summary commodity identification	LLVAR	ans..35
		104-19/89	Gross fuel amount	LLVAR	n..18
		104-19/89	Net fuel amount	LLVAR	n..18
		104-19/89	gross non-fuel amount	LLVAR	n..18
		104-19/89	Net fuel amount	LLVAR	n..18
		104-19/89	discount amount - fuel	LLVAR	n..12
		104-19/89	discount amount – non-fuel	LLVAR	n..12
		104-19/89	Total discount amount	LLVAR	n..12
		104-19/89	tax amount - fuel	LLVAR	n..12
		104-19/89	tax amount – non-fuel	LLVAR	n..12
		104-19/89	Total tax	LLVAR	n..12
		104-19/89	VAT/Tax Rate		n 4
		104-19/89	Driver's name	LLVAR	ans..70
		104-19/89	Driver's ID	LLVAR	ans..70
		104-19/89	Continuation bit		
		104-19/89	Driver driving license	LLVAR	ans..70
		104-19/89	Driver's employer	LLVAR	ans..70
		104-19/89	Driver's employee ID	LLVAR	ans..70
		104-19/89	Driver's date of birth	CCYYMMDD	n 8
		104-19/89	Vehicle number	LLVAR	ans..35
		104-19/89	Vehicle Identification number	LLVAR	ans..35
		104-19/89	Vehicle Fleet number	LLVAR	ans..10
		104-19/89	Vehicle Sub fleet number	LLVAR	ans..35
		104-19/89	Vehicle Unit number	LLVAR	ans..35
		104-19/89	Vehicle Trailer number	LLVAR	ans..35
		104-19/89	Vehicle tag	LLVAR	ans..35
		104-19/89	Vehicle tag entry mode		a 4
		104-19/89	Replacement vehicle indicator		a 1
		104-19/89	Vehicle odometer reading	LLVAR	n..18

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Bit	Cons	Comp	Name	Format	Representation
		104-19/89	Vehicle Fleet hubometer	LLVAR	n..18
		104-19/89	Vehicle Maintenance Identification	LLVAR	ans..35
		104-19/89	Card fuel prompt code		n 1
		104-19/89	Agent fuel prompt code	LLVAR	ans..35
		104-19/89	Trip number	LLVAR	ans..35
		104-19/89	Trip Job number	LLVAR	ans..10
		104-19/89	Trip Work order	LLVAR	ans..70
		104-19/89	Trip Invoice number	LLVAR	ans..70
		104-19/89	Trip Billing identification	LLVAR	ans..70
		104-19/89	Trip Control number	LLVAR	ans..35
		104-19/89	Trip Delivery ticket number	LLVAR	ans..35
		104-19/89	Local amenity	LLLVAR	ans..250
		104-1A/8A	Fuel Indicator	1=true 0=false	an 1
		104-1A/8A	Service Type		a 4
		104-1A/8A	Fuel Brand Code		an..4
		104-1A/8A	Product Code	LLVAR	an.. 4
		104-1A/8A	Product Category/Description	LLVAR	an..35
		104-1A/8A	Product Qualifier	LLVAR	an.. 6
		104-1A/8A	Product Code Assigner	LLVAR	an..35
		104-1A/8A	Unit Price Tax Indicator	1=true 0=false	an 1
		104-1A/8A	Unit Price	LLVAR	n.. 12
		104-1A/8A	Unit Price minor unit		n 1
		104-1A/8A	Unit of Measure		a..4
		104-1A/8A	Product Quantity	LLVAR	n.. 12
		104-1A/8A	quantity minor unit		n1
		104-1A/8A	Total time plugged in	HHMMSS	n 6
		104-1A/8A	Total charging time	HHMMSS	n 6
		104-1A/8A	Start time of charge	HHMMSS	n 6
		104-1A/8A	Finish time of charge	HHMMSS	n 6

Bit	Cons	Comp	Name	Format	Representation
		104-1A/8A	Total Amount Including Tax (Gross price)	LLVAR	n.. 12
		104-1A/8A	Total Amount Excluding Tax	LLVAR	n.. 12
		104-1A/8A	Discount Rate - Percentage		n..4
		104-1A/8A	Discount Rate – Unit Discount		n..5
		104-1A/8A	Discount Rate – Flat rate per transaction		n.. 5
		104-1A/8A	Total Discount Amount	LLVAR	n..12
		104-1A/8A	Net Amount (Gross-Tax-Discount)	LLVAR	n..12
		104-1A/8A	Non-Taxable Indicator		an 1
		104-1A/8A	VAT/Local Tax Included Indicator		an 1
		104-1A/8A	VAT/Local Tax Amount	LLVAR	n.. 12
		104-1A/8A	VAT/Local Rate		n 4
		104-1A/8A	National Tax Included Indicator		an 1
		104-1A/8A	National Tax Amount	LLVAR	n.. 12
		104-1A/8A	National Tax Rate		n 4
		104-1A/8A	Other Tax Included Indicator		an 1
		104-1A/8A	Other Tax Amount	LLVAR	n..12
		104-1A/8A	Other Tax Rate		n 4
105			Reserved for ISO use	LLLLVAR	ansb..9999
106			Reserved for ISO use	LLLLVAR	ansb..9999
107			Reserved for ISO use	LLLLVAR	ansb..9999
108			Data in Local Language	LLLLVAR	ansb..9999
109	X		Reconciliation fee amounts credit	LLLVAR	ans..144
	109-1		Fee type code		n 2
	109-2		Amount fee total		n 12
	109-3		Number fee total		n 10
110	X		Reconciliation fee amounts debit	LLLVAR	ans..144
	110-1		Fee type code		n 2
	110-2		Amount fee total		n 12
	110-3		Number fee total		n 10
111- 115			Reserved for private use	LLLLVAR	ansb..9999

Bit	Cons	Comp	Name	Format	Representation
116- 122			Reserved for national use	LLLLVAR	ansb..9999
123			Reserved for private use	LLLLVAR	ansb..9999
124			Reserved for private use	LLLLVAR	ansb..9999
125			Reserved for private use	LLLLVAR	ansb..9999
126			Reserved for private use	LLLLVAR	ansb..9999
127			Reserved for private use	LLLLVAR	ansb..9999
128			MAC field		b 4

C.2 Data element directory

The representation abbreviations used in the "Format" and "Representation" columns in Table C.2 shall contain the values specified in B.1An X in the column headed "Cons." indicates a constructed data element. Data elements that are themselves part of a constructed data element are included in Table C.2 with the relevant message bit number indicated in the column headed "Cons".

An X in the column headed "Comp." indicates a composite data element. Data elements that are themselves part of a composite data element are included in Table C.2 with the relevant message bit number and dataset identifier indicated in the column headed "Comp".

Codes under the control of the ISO 8583 MA (see Clause 7) are listed in D and referenced in the "notes" column in Table C.2. Codes with a fixed number of possible values (e.g. Y or N) are listed directly in the format column in Table C.2. If the code is not under the control of the ISO 8583 MA, the organization which maintains the list of the allocated values is indicated in the notes column in Table C.2.

Table C.2 — Data element directory

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Acceptance environment authentication outage indicator	Indicates that the consumer authentication process is temporarily unavailable in the acceptance, acquirer or agent environment for this request. It is not used to indicate an outage in the issuer processing domain (including agents acting on behalf of the issuer).	0 = no outage 1 = outage	n 1	(see C.3.14.4)			34-02, 34-74

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Acceptance environment data	The data needed from the POS to support the processing. Includes data, attributes, and security features.	LLLLVAR	b..9999	(see C.3.14)	34		X
Account balance requested	Balance of account is requested in response.	Y = yes N = no	a 1	(see C.3.14.5)			34-03, 34-75
Account balance result	Result of account balance request.		an 2	(see C.3.14.6 and D.5)			34-04, 34-76
Account-based digital signature	A digital signature created by the private part of the private/public key pair supplied by a card issuer to a cardholder and linked to the cardholder's account on which the card is issued.	LLVAR	b..90	(see C.3.14.1 and C.3.14.3)			34-01, 34-73
Account identification 1	A series of digits and/or characters used to identify a customer account or relationship, e.g. for the "from" account.	LLVAR	ans..28	(see **Error! Reference source not found.** and **Error! Reference source not found.Error! Reference source not found.**)	102		
Account identification 2	A series of digits and/or characters used to identify a customer account or relationship, e.g. for the "to" account.	LLVAR	ans..28	(see **Error! Reference source not found.** and **Error! Reference source not found.**)	103		
Account owner address line 1	Contains the first address line of the account owner (holder) of an account.	LLVAR	ans..99	(see C.3.21.5)			51-05, 51-75

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Account owner address line 2	Contains the second address line of the account owner (holder) of an account.	LLVAR	ans..99	(see C.3.21.5)			51-05, 51-75
Account owner building number	Contains the building number of the address of the account owner (holder) of an account.	LLVAR	ans..16	(see C.3.21.5)			51-05, 51-75
Account owner city name	Contains the city of the address of the account owner (holder) of an account.	LLVAR	ans..50	(see C.3.21.5)			51-05, 51-75
Account owner country	Contains the country of the address of the account owner (holder) of an account (shall conform with ISO 3166-1).		a 3	(see C.3.21.5)			51-05, 51-75
Account owner country sub division code, major	Contains the major sub-division of the country of the address of the account owner (holder) of an account, e.g. state or province code (shall conform with ISO 3166-2 or the local authority).	LLVAR	ans..16	(see C.3.21.5)			51-05, 51-75
Account owner country sub division code, minor	Contains the minor sub-division of the country of the address of the account owner (holder) of an account, e.g. county code (shall conform with ISO 3166-2 or the local authority).	LLVAR	ans..16	(see C.3.21.5)			51-05, 51-75
Account owner postal code	Contains the postal code of the address of the account owner (holder) of an account.	LLVAR	ans..16	(see C.3.21.5)			51-05, 51-75
Account owner street name	Contains the street name of the address of the account owner (holder) of an account.	LLVAR	ans..99	(see C.3.21.5)			51-05, 51-75

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Account owner designation	Identifies the account owner relationship.		n 2	(see C.3.21.5)			51-05, 51-75
Account owner name, full	Contains the full name of the account owner (holder) of an account.	LLVAR	an..99	(see C.3.21.5)			51-05, 51-75
Account owner name, given	Contains the given (first) name of the account owner (holder) of an account.	LLVAR	an..35	(see C.3.21.5)			51-05, 51-75
Account owner name, middle	Contains the middle initial(s) or name(s) of the account owner (holder) of an account.	LLVAR	an..35	(see C.3.21.5)			51-05, 51-75
Account owner name, last	Contains the last (surname) name of the account owner (holder) of an account.	LLVAR	an..35	(see C.3.21.5)			51-05, 51-75
Account reference code	Identifies the account or entity to which the information in a specific dataset instance of the account owner data is related.		n 2	(see C.3.21.5 and D.1)			51-05, 51-75
Account type additional amounts	Code used to describe the accounts affected. Contained in amounts additional.		an 2	(see C.3.22 and D.2)		54	
Account type code 1	Code which identifies the type of account to be updated. Used in conjunction with the transaction type code as part of the Processing code.		an 2	(see C.3.22 and D.2)		3	
Account type code 2	Code which identifies the type of account to be updated. Used in conjunction with the transaction type code as part of the processing code.		an 2	(see C.3.22 and D.2)		3	
Acquirer number	First six digits of the acquiring institution identification code.		n 6	(see C.3.13)		31	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Acquirer reference number	Data supplied by an acquirer to assist in identifying a transaction, e.g. for researching retrievals and chargebacks.		n 23	(see C.3.13)	31	X	
Acquiring institution identification code	Code identifying the acquirer.	LLVAR	n..11	(see **Error! Reference source not found.Error! Reference source not found.**)	32		
Action code	A code which defines the action taken or to be taken as well as the reason for taking this action.		n 4	(see C.3.15 and D.3)	39		
Additional data national	Reserved for national organizations to define data unique to country applications. The use of this data element is under the control of national bodies.	LLLVAR	ans..999	(see **Error! Reference source not found.**)	47		
Additional data private	Reserved for private data. The use of this data element is determined by bilateral agreement.	LLLVAR	ans..999	(see **Error! Reference source not found.**)	48		
Additional identification reference number	Identification number on additional identification document.	LLVAR	ans..30	(see **Error! Reference source not found.** and C.3.19)			49-01, 49-71
Additional identification type	Type of additional identification offered by cardholder.		n 1	(see C.3.19 and D.4)			49-01, 49-71
Additional response data	Other data required in a response, e.g. a telephone number, printer capabilities.	LLLLVAR	ansb..9999	(see **Error! Reference source not found.**, **Error! Reference source not**	44		X

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
				found. and C.3.17)			
Address verification result code	Code which defines the result from the address verification process.		an 1	(see C.3.19, D.6)			49-02, 49-72
Airline amount original invoice	Amount of the original invoice. Used to identify the original amount on a refund transaction.		n 12	(see **Error! Reference source not found.** and C.3.35.5)			104-08, 104-74
Airline amount total fare	The total airline ticket amount.		n 12	(see **Error! Reference source not found.** and C.3.35.5)			104-08, 104-74
Airline amount total fees	The total fees associated with an airline ticket.		n 12	(see **Error! Reference source not found.** and C.3.35.5)			104-08, 104-74
Airline amount total taxes	The total taxes associated with an airline ticket.		n 12	(see **Error! Reference source not found.** and C.3.35.5)			104-08, 104-74
Airline carrier name	Name of airline carrier as defined by ATPCO.	LLVAR	an..19	(see C.3.35.5)			104-08, 104-74
Airline customer reference	Cardholder supplied reference number.	LLVAR	ans..20	(see C.3.35.5)			104-08, 104-74
Airline date ticket issue	Date on which the airline ticket was issued.	CCYYMMDD	n 8	(see C.3.35.5)			104-08, 104-74
Airline invoice number	Invoice number as supplied by airline.		an 6	(see C.3.35.5)			104-08, 104-74
Airline original currency code	Currency code of the original transaction. Used to identify the original currency in a refund transaction (shall conform with ISO 4217).		n 3	(see C.3.35.5)			104-08, 104-74

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Airline passenger name	Name of airline passenger.	LLVAR	ans..29	(see C.3.35.5)			104-08, 104-74
Airline plan number	Plan number as supplied by airline.		an 2	(see C.3.35.5)			104-08, 104-74
Airline ticket agency name	Name of ticket agency which sold the airline ticket.	LLVAR	an..25	(see C.3.35.5)			104-08, 104-74
Airline ticket issue address	Address at which the airline ticket was issued.	LLVAR	ans..16	(see C.3.35.5)			104-08, 104-74
Airline ticket number	Ticket number as supplied by airline.	LLVAR	an..15	(see C.3.35.5)			104-08, 104-74
Airline travel agency code	Code of travel agency which sold airline ticket as defined by ATPCO2.		an 8	(see C.3.35.5 and Bibliography)			104-08, 104-74
Alien registration number	Alien registration number of the customer	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
Alien registration number issuing country code	Identifies the country of issuance of the alien registration number (shall conform with ISO 3166-1).		n 3	(see C.3.21.3)			51-03, 51-73
Amount additional amounts	Amount contained in amounts additional.		xn 17	(see **Error! Reference source not found.** and C.3.22)		54	
Amount cardholder billing	Amount billed to the cardholder in the currency of the cardholder account exclusive of cardholder billing fees.		n 16	(see **Error! Reference source not found.** and C.3.4)	6	X	
Amount cardholder billing fee	Fee to be billed to the cardholder by the card issuing institution in the same currency as amount cardholder billing.		n 12	(see **Error! Reference source not found.** and C.3.6)	8	X	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Amount fee	Amount of the fee within the fee type code. Contained in amounts fees.		xn 13	(see **Error! Reference source not found.Error! Reference source not found.** and C.3.18)		46	
Amount fee total	The sum amount of all fees of the fee type specified. Contained in reconciliation fee amounts credit and reconciliation fee amounts debit.		n 12	(see **Error! Reference source not found.** and C.3.36)		109, 110	
Amount net reconciliation	The net value of all gross amounts.		xn 21	(see **Error! Reference source not found.** and C.3.34)	97	X	
Amount reconciliation	Funds to be transferred between the acquirer and card issuer equal to the amount transaction in the currency of reconciliation.		n 16	(see **Error! Reference source not found.** and C.3.3)	5	X	
Amount reconciliation fee	Fee to be transferred between the acquirer and card issuer equal to the Amount fee in the currency of reconciliation. Contained in the Amounts fees data element.		xn 13	(see **Error! Reference source not found.** and C.3.18)		46	
Amount transaction	Funds requested by the cardholder in the local currency of the acquirer or source location of the transaction, exclusive of amounts fees.		n 16	(see **Error! Reference source not found.** and C.3.2)	4	X	
Amount type additional amounts	Identifies the kind of amount contained in amounts additional.		an 2	(see **Error! Reference source not found.**,		54	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
				C.3.22 and D7)			
Amounts additional	Information on up to six amounts and related account data for which specific data elements have not been defined.	LLLVAR	ans..126	(see **Error! Reference source not found.** and C.3.22)	54	X	
Amounts fees	Fees associated with this transaction.	LLLVAR	ans..216	(see **Error! Reference source not found.** and C.3.18)	46	X	
Amounts original	The amount data elements from the original transaction.		n 32	(see **Error! Reference source not found.** and C.3.12)	30	X	
Amounts original fees	The original amounts fees necessary to perform a partial reversal, partial chargeback or partial approval or to replace or supplement a previously authorised transaction.	LLLVAR	ans..216	(see **Error! Reference source not found.**, **Error! Reference source not found.** and C.3.27)	66	X	
APP IP address	External IP address (i.e. the device public IP address) used during the authentication process. For example, IP address used by the 3DS requestor app when it connects to the 3DS requestor environment (see appIp in EMVCo 3DS specification).		ans..45	(see C.3.14.3)			34-01, 34-73
Approval code	Code assigned by the authorizing institution indicating approval.		anp 6		38		

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Approval code length	Maximum length of the approval code which the acquirer may accommodate. The card issuer or agent shall limit the approval code to this length.		n 1	(see C.3.11)		27	
Authentication address match indicator	Indicates whether the cardholder shipping address and cardholder billing address are the same during an authentication process	Y = Match N = No match	a 1	(see C.3.14.3)			34-01, 34-73
Authentication browser IP address	IP address of the browser as returned by the HTTP headers to the requestor during an authentication process	LLVAR	ans..45	(see C.3.14.3)			34-01, 34-73
Authentication code	Used in authentication of a party, e.g. a cardholder. If more than one authentication code is present they shall be sent in the exact order received from the certificate processor.	Tag 80	ansb..50	(see **Error! Reference source not found.**, C.3.14.2, and C.3.14.3)			34-01, 34-72, 34-73
Authentication device information	Device information gathered from a consumer device during an authentication process.	LLLLVAR	ans..9999a	(see C.3.14.3)			34-01, 34-73
Authentication intermediary transaction identifier	Universally unique transaction identifier assigned by an intermediary server (e.g. 3DS Directory Server) to identify a single transaction during an authentication process.	LLVAR	ans..36	(see C.3.14.3)			34-01, 34-73
Authentication merchant name	Merchant name assigned by the acquirer or payment system used during an authentication process.	LLVAR	ans..40	(see C.3.14.3)			34-01, 34-73

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Authentication message category	Identifies the category of the message for a specific use case during an authentication process.		an 2	(see C.3.14.3)			34-01, 34-73
Authentication message version	Authentication protocol or message version used.	LLVAR	ans..8	(see C.3.14.3)			34-01, 34-73
Authentication purchase amount	Authentication purchase amount in minor units of currency with all punctuation removed.	LLVAR	ans..48	(see C.3.14.3)			34-01, 34-73
Authentication purchase currency	Authentication currency in which purchase amount is expressed (shall conform with ISO 4217)		n 3	(see C.3.14.3)			34-01, 34-73
Authentication purchase date and time	Authentication date and time of the purchase expressed in UTC.	YYYYMMDDHHMMSS	n 14	(see C.3.14.3)			34-01, 34-73
Authentication server transaction identifier	Universally unique transaction identifier assigned by the authentication server (e.g. 3DS ACS) to identify a single transaction during an authentication process.	LLVAR	ans..36	(see C.3.14.3)			34-01, 34-73
Authentication status	Indicates status of an authentication process (e.g. 3DS transaction status).		a 1	(see C.3.14.3)			34-01, 34-73
Authorization life cycle code	A value in calendar days, hours or minutes which defines the time period for which the acquirer is requesting guarantee of funds, or that the card issuer shall guarantee funds for a financial presentment which may follow.		n 3	(see D.8)	57	57	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Authorizations number	The sum number of all authorization transactions.		n 10	(See C.3.33)		75	
Authorizations reversal number	The sum number of all reversal transactions processed where the message type identifier in the original data elements indicated an authorization transaction (1xx).		n 10	(see C.3.33)		75	
Authorizing agent institution identification code	Code identifying the authorizing agent institution.	LLVAR	n..11	(see **Error! Reference source not found.**)	58		
Auto amount adjusted	Amount of miscellaneous charges incurred after the vehicle was rented, e.g. extra hours.		n 12	(see **Error! Reference source not found.** and C.3.35.7)			104-0A, 104-76
Auto amount adjusted indicator code	Indicates the type of charges provided in auto amount adjusted.		as 1	(see C.3.35.7 and D.9)			104-0A, 104-76
Auto amount vehicle insurance	Amount of vehicle insurance purchased as part of the vehicle rental agreement.		n 12	(see **Error! Reference source not found.** and D.9)			104-0A, 104-76
Auto customer service toll-free phone number	Customer service number that the cardholder may call to resolve questions or disputes.		ans 16	(see Annex D.9)			104-0A, 104-76
Auto distance unit of measure	Unit of measure of distance travelled.	K = kilometres ; M = miles	a 1	(see D.9)			104-0A, 104-76
Auto maximum free miles/kilometres	The number of free miles or kilometres allowed to a customer for the duration of the vehicle rental agreement.		n 4	(see D.9)			104-0A, 104-76
Auto odometer reading	Reading of total distance travelled by vehicle.		n 8	(see D.9)			104-0A, 104-76

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Auto program code	Code allocated by the acquirer that identifies special circumstances, e.g. frequent renter or "no show".		ans 2	(see D.9)			104-0A, 104-76
Auto rental address	Address from where automobile was rented.	LLVAR	ans..26	(see D.9)			104-0A, 104-76
Auto rental agreement reference	Reference number on auto rental agreement form.	LLVAR	ans..25	(see D.9)			104-0A, 104-76
Auto rental city	City in which the automobile was rented.	LLVAR	ans..18	(see D.9)			104-0A, 104-76
Auto rental class identifier	Classification defined by the acquirer of the vehicle rented, e.g. midsize, luxury.		ans 4	(see D.9)			104-0A, 104-76
Auto rental country	Country in which the automobile was rented (shall conform with ISO 3166-1).		ans 3	(see D.9)			104-0A, 104-76
Auto rental date	Date from which auto rental starts.	CCYYMMDD	n 8	(see Annex D.9)			104-0A, 104-76
Auto rental distance	Distance travelled during rental period (see auto distance unit of measure).		n 5	(see D.9)			104-0A, 104-76
Auto rental location identifier	Agency code, phone number, or other abbreviation used to identify the location from which the automobile was rented.		ans 10	(see D.9)			104-0A, 104-76
Auto rental rate	Rental rate charged for the vehicle.		n 12	(see D.9)			104-0A, 104-76
Auto rental rate time period	Indicates the time period to which the auto rental rate applies, e.g. daily, weekly.	D = daily W = weekly M = monthly Space = unknown	as 1	(see D.9)			104-0A, 104-76

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Auto rental state/province	State or province within the country in which the automobile was rented (shall conform with ISO 3166-2, or as specified by local authority).		ans 3	(see D.9)			104-0A, 104-76
Auto rental time	Time from which auto rental period starts.	HHMM	n 4	(see D.9)			104-0A, 104-76
Auto renter name	Name of the person making the vehicle rental agreement.	LLVAR	ans..29	(see D.9)			104-0A, 104-76
Auto return address	Address to which the automobile was/will be returned.	LLVAR	ans..26	(see D.9)			104-0A, 104-76
Auto return city	City to which the automobile was/will be returned.	LLVAR	ans..18	(see D.9)			104-0A, 104-76
Auto return country	Country to which the automobile was/will be returned (shall conform with ISO 3166-1).		ans 3	(see D.9)			104-0A, 104-76
Auto return date	Date on which automobile was/will be returned.	CCYYMMDD	n 8	(see D.9)			104-0A, 104-76
Auto return location identifier	Agency code, phone number, or other abbreviation used to identify the location to which the automobile was/will be returned.		ans 10	(see D.9)			104-0A, 104-76
Auto return state/province	State or province within the country to which the automobile was/will be returned (shall conform with ISO 3166-2, or as specified by local authority).		ans 3	(see D.9)			104-0A, 104-76
Auto return time	Time by which automobile was/will be returned.	HHMM	n 4	(see D.9)			104-0A, 104-76

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Auto vehicle insurance indicator	Indicates whether the customer purchased vehicle insurance as part of the vehicle rental agreement.	Y = yes N = No Space = unknown	as 1	(see D.9)			104-0A, 104-76
Auto vehicle registration number	Registration number of rented or fleet automobile.		an 17	(see D.9)			104-0A, 104-76
Batch/file transfer acknowledgement code	Indicates whether an acknowledgement message is required for a notification or instruction message submitted via batch or file transfer.		an 1	(see C.3.28 and D.10)		68	
Batch/file transfer control data	The name and number of messages in the current batch or file. Part of batch/file transfer.		ans 40	(see C.3.29)	69	X	
Batch/file transfer file identification	The unique identifier assigned to each batch or file in the current batch or file transfer.		ans 32	(see C.3.29)		69	
Batch/file transfer message control	Identifies the message number of the individual message and indicates whether an acknowledgement is required. Used in the management of file and batch transfer.		an 9	(see C.3.28)	68	X	
Batch/file transfer message count	The number of messages to be sent in the batch or file.		n 8	(see C.3.29)		69	
Batch/file transfer message sequence number	Unique sequence number assigned to a notification or instruction message that is sent via batch or file transfer.		n 8	(see C.3.28)		68	
Card acceptor additional address information	Additional information used when card acceptor street address is insufficient.	LLLVAR	an..255	(see **Error! Reference source not**			43-01, 43-71

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
				found. and C.3.16.1)			
Card acceptor additional contact information	Additional information used to facilitate contact with the card acceptor, e.g. sales agent name, dispute manager name	LLVAR	ans..30	(see C.3.16.1)			43-01, 43-71
Card acceptor certificate serial number	Value assigned to a card acceptor certificate issued by the acquirer's certificate authority.	LLVAR	b..16	(see C.3.14.2, C.3.14.3)			34-01, 34-72, 34-73
Card acceptor city	The city of the card acceptor, allocated by the acquirer, sufficient to allow the cardholder to recognize the location from his statement.	LLVAR	ans..50	(see C.3.16.1)			43-01, 43-71
Card acceptor country code	The code of the country, allocated by the acquirer, to indicate the country where the card acceptor is located (shall conform with ISO 3166-1).		a 3	(see C.3.16.1)			43-01, 43-71
Card acceptor customer service phone number	Phone number to be used to contact the card acceptor to resolve questions or disputes related to the transaction.		ans 16	(see C.3.16.1)			43-01, 43-71
Card acceptor display data	Card issuer data to be displayed on the POS for the card acceptor.	LLVAR	ans..99	(see C.3.17.1)			44-01, 44-71
Card acceptor display data length	Number of characters of data from a card issuer that can be displayed on the POS for the card acceptor.		n 3	(see C.3.11)		27	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Card acceptor e-mail address	The electronic mail identifier of the card acceptor, sufficient to allow the cardholder to recognize the location from his statement.	LLVAR	ans..99	(see C.3.16.1)			43-01, 43-71
Card acceptor geographic location	The geographic location of the card acceptor expressed in latitude/longitude format. Supports zero to four minor units for each coordinate.	LLVAR ±nnn.nnnn /±nnn.nnn n	ans..19	(see C.3.16.1)			43-01, 43-71
Card acceptor identification code	Code identifying the card acceptor.	LLVAR	ans..35		42		
Card acceptor internet URL	The primary internet universal resource locator (URL) of the card acceptor, sufficient to allow the cardholder to recognize the location from his statement.	LLLVAR	ans..255	(see C.3.16.1)			43-01, 43-71
Card acceptor name	The name of the card acceptor as known to the cardholder.	LLVAR	ans..50	(see C.3.16.1)			43-01, 43-71
Card acceptor name/location	The name and location of the card acceptor as known to the cardholder.	LLLLVAR	ansb..9999	(see **Error! Reference source not found.** and C.3.16.1)	43		X
Card acceptor phone number	Phone number of the card acceptor at the location of the original transaction.		ans 16	(see C.3.16.1)			43-01, 43-71
Card acceptor postal code	Code allocated by postal authority of the card acceptor to identify its physical location.		ans 10	(see C.3.16.1)			43-01, 43-71
Card acceptor receipt data	Card issuer data to be printed on the POS card acceptor receipt.	LLVAR	ans..99	(see C.3.17.1)			44-71

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Card acceptor receipt data length	Number of characters of data from a card issuer that can be printed on a POS receipt for the card acceptor.		n 3	(see C.3.11)		27	
Card acceptor state province or region code	State, province or region code allocated by the acquirer to indicate the physical location of the card acceptor (shall conform with ISO 3166-2, or as specified by local authority).		ans 3	(see C.3.16.1)			43-01, 43-71
Card acceptor street address	The address of the card acceptor, allocated by the acquirer, sufficient to allow the cardholder to recognize the location from his statement.	LLVAR	ans..99	(see C.3.16.1)			43-01, 43-71
Card acceptor terminal identification	Unique code identifying a terminal at the card acceptor location.		ans 16		41		
Card activation requested	Activate card	Y = yes N = no	a 1	(see C.3.14.5)			34-03, 34-75
Card activation result	Result of card activation request		an 2	(see C.3.14.6 and D.5)			34-04, 34-76
Card capture capability	Indicates if the card can be captured.		a 1	(see C.3.11)		27	
Card issuer reference data	Data supplied by a card issuer in an authorization response message, financial presentment response message, or in a chargeback transaction that the acquirer may be required to be provided in subsequent transactions.	LLVAR	ans..99		95		

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Card issuer telephone number	Contact telephone number for use by the acquirer and/or card acceptor if the card issuer wishes to make voice contact.		ans 16	(see C.3.17.1)			44-71
Card-reading method used at POS	A series of code values that indicate which of the card-reading capabilities of the POS were used for this transaction.		b 4	(see C.3.10.1 and D.19.1)		22	
Card sequence number	A number distinguishing between separate cards with the same PAN.		n 3		23		
Card verification data	A number that is only printed on the card which is not included in any other technology, e.g. magnetic stripe or ICC.		n 4	(see C.3.19.1)			49-01, 49-71
Cardholder billing address compressed	Numeric and postcode elements only of the cardholder/delivery address.		ans 16	(see C.3.19.1)			49-01, 49-71
Cardholder billing postal code	Code allocated by postal authority.		ans 10	(see C.3.19.1)			49-01, 49-71
Cardholder billing street address	Street address of cardholder.		ans 40	(see C.3.19.1)			49-01, 49-71
Cardholder certificate serial number	Value assigned to a cardholder certificate issued by the card issuer's certificate authority.	LLVAR	b..16	(see C.3.14.2, C.3.14.3)			34-01, 34-72, 34-73
Cardholder display data	Card issuer data to be displayed on the POS for the cardholder.	LLVAR	ans..99	(see C.3.17.1)			44-01, 44-71
Cardholder display data length	Number of characters of data from a card issuer that can be		n 3	(see C.3.11)		27	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
	displayed on the POS for the cardholder.						
Cardholder receipt data	Card issuer data to be printed on the POS cardholder receipt.	LLVAR	ans..99	(see C.3.17.1)			44-01, 44-71
Cardholder receipt data length	Number of characters of data from a card issuer that can be printed on a POS receipt for the cardholder.		n 3	(see C.3.11)		27	
Cardholder verification method used at POS	A series of code values that indicate the POS capabilities of the POS actually used to identify the cardholder.		b 4	(see C.3.10.2 and D.19.2)		22	
Cashback requested	Purchase of goods or services with cashback.	Y = yes N = no	a 1	(see C.3.14.5)			34-03, 34-75
Cashback result	Result of cashback request.		an 2	(see C.3.14.6 and D.5)			34-04, 34-76
Conversion rate cardholder billing	The factor used in the conversion from transaction to cardholder billing amount. The amount transaction is multiplied by Conversion rate cardholder billing to determine amount cardholder billing.		n 8	(see **Error! Reference source not found.**)	10		
Conversion rate fee	The factor used in the conversion from fee amount to reconciliation fee amount. The amount fee is multiplied by conversion rate fee to determine the amount reconciliation fee. Contained in amounts fees.		n 8	(see **Error! Reference source not found.** and C.3.18)		46	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Conversion rate reconciliation	The factor used in the conversion from transaction to reconciliation amount. The amount transaction is multiplied by conversion rate reconciliation to determine the amount reconciliation.		n 8	(see **Error! Reference source not found.**)	9		
Country code acquiring institution	The code of the country where the acquiring institution is located (shall conform with ISO 3166-1).		n 3		19		
Country code PAN	The code of the country where the card issuing institution is located (shall conform with ISO 3166-1).		n 3		20		
Credits amount	The sum amount of amount transaction in all financial presentment transactions exclusive of any fees where positions 1-2 of the processing code in the financial presentment transaction indicated a credit (20-29).		n 16	(see C.3.32)		74	
Credits chargeback amount	The sum amount of amount transaction in all chargeback transactions exclusive of any fees where positions 1-2 of the processing code in the chargeback transaction indicated a debit (00-19).		n 16	(see C.3.32)		74	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Credits chargeback number	The sum number of all chargeback transactions where positions 1-2 of the processing code in the chargeback transaction indicated a debit (00-19).		n 10	(see C.3.32)		74	
Credits number	The sum number of all financial presentment transactions where positions 1-2 of the processing code in the financial presentment transaction indicated a credit (20-29).		n 10	(see C.3.32)		74	
Credits reversal amount	The sum amount of amount transaction of all reversal transactions exclusive of any fees where positions 1-2 of the processing code in the reversal transaction indicated a debit (00-19).		n 16	(see C.3.32)		74	
Credits reversal number	The sum number of all reversal transactions where positions 1-2 of the processing code in the reversal transaction indicated a debit (00-19).		n 10	(see C.3.32)		74	
Currency code amount additional amounts	Code defining the currency of the amount contained in amount additional amounts (shall conform with ISO 4217).		n 3	(see **Error! Reference source not found.** and C.3.22)		54	
Currency code amount cardholder billing	Code defining the currency of the amount contained in amount cardholder billing (shall conform with ISO 4217).		n 3	(see **Error! Reference source not found.** and C.3.4)		6	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Currency code amount cardholder billing fee	Code defining the currency of the amount contained in amount cardholder billing fee (shall conform with ISO 4217).		n 3	(see 5.1.3 and C.3.6)		8	
Currency code amount fee	Code defining the currency of the amount contained in amount fee (shall conform with ISO 4217).		n 3	(see **Error! Reference source not found.**and C.3.18)		46	
Currency code amount net reconciliation	Code defining the currency of the amount contained in amount net reconciliation (shall conform with ISO 4217).		n 3	(see 5.1.3 and C.3.34)		97	
Currency code amount reconciliation	Code defining the currency of the amount contained in amount reconciliation (shall conform with ISO 4217).		n 3	(see 5.1.3 and C.3.3)		5	
Currency code amount reconciliation fee	Code defining the currency of the amount contained in reconciliation fee (shall conform with ISO 4217).		n 3	(see **Error! Reference source not found.** and C.3.18)		46	
Currency code amount transaction	Code defining the currency of the amount contained in amount transaction (shall conform with ISO 4217).		n 3	(see **Error! Reference source not found.** and C.3.2)		4	
Currency code original amount fee	Code defining the currency of the amount contained in original amount fee (shall conform with ISO 4217).		n 3	(see **Error! Reference source not found.** and C.3.27)		66	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Currency code original amount reconciliation	Code defining the currency of the amount contained in original amount reconciliation (shall conform with ISO 4217).		n 3	(see **Error! Reference source not found.** and C.3.12)		30	
Currency code original amount reconciliation fee	Code defining the currency of the amount contained in original amount reconciliation fee (shall conform with ISO 4217).		n 3	(see 5.1.3 and C.3.27)		66	
Currency code original amount transaction	Code defining the currency of the amount contained in original amount transaction (shall conform with ISO 4217).		n 3	(see **Error! Reference source not found.** and C.3.12)		30	
Currency minor unit amount additional amounts	Currency minor unit of amount additional amounts. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.22)		54	
Currency minor unit amount cardholder billing	Currency minor unit of amount cardholder billing. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.4)		6	
Currency minor unit amount cardholder billing fee	Currency minor unit of amount cardholder billing fee. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.6)		8	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Currency minor unit amount fee	Currency minor unit of amount fee. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.18)		46	
Currency minor unit amount net reconciliation	Currency minor unit of amount net reconciliation. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.34)		97	
Currency minor unit amount reconciliation	Currency minor unit of amount reconciliation. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.3)		5	
Currency minor unit amount reconciliation fee	Currency minor unit of amount reconciliation fee. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.18)		46	
Currency minor unit amount transaction	Currency minor unit of amount transaction. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.2)		4	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Currency minor unit original amount fee	Currency minor unit of original amount fee. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.27)		66	
Currency minor unit original amount reconciliation	Currency minor unit of original amount reconciliation. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.12)		30	
Currency minor unit original amount reconciliation fee	Currency minor unit of original amount reconciliation fee. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.27)		66	
Currency minor unit original amount transaction	Currency minor unit of original amount transaction. Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit.		n 1	(see **Error! Reference source not found.** and C.3.12)		30	
Customer email address, business	Business email address of a customer	LLVAR	ans..99	(see C.3.21.2)			51-02, 51-72
Customer email address, other	Other email address of a customer	LLVAR	ans..99	(see C.3.21.2)			51-02, 51-72
Customer email address, personal	Personal email address of a customer	LLVAR	ans..99	(see C.3.21.2)			51-02, 51-72
Customer identification (unspecified)	Unspecified code used as the customer identification	LLVAR	ans..99	(see C.3.21.3)			51-03, 51-73

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Customer phone number, business	Business phone number of a customer	LLVAR	ans..16	(see C.3.21.2)			51-02, 51-72
Customer phone number, home	Business phone number of a customer	LLVAR	ans..16	(see C.3.21.2)			51-02, 51-72
Customer phone number, mobile	Business phone number of a customer	LLVAR	ans..16	(see C.3.21.2)			51-02, 51-72
Customer phone number, other	Business phone number of a customer	LLVAR	ans..16	(see C.3.21.2)			51-02, 51-72
Customer related data	Identifies customer related information	LLLLVAR	ansb..9999	(see C.3.21)	51		X
Data element in error	Identifies the data element number in error. Contained in message error indicator.		n 3	(see C.3.8)		18	
Data record	Other data required to be passed to support an administrative or file action message.	LLLLVAR	ansb..9999		72		
Data sub-element in error	Identifies the part within a constructed data element that is in error. Contained in message error indicator.		n 2	(see C.3.8)		18	
Dataset bit or tag in error	Identifies the bit or tag within a dataset identifier that is in error. Contained in message error indicator.		b 2	(see C.3.8)		18	
Dataset identifier in error	Identifies the dataset identifier within a composite data element that is in error. Contained in message error indicator.		b 1	(see C.3.8)		18	
Date action	A date for a future action or a specific date such as a birth date.	CCYYMMDD	n 8		73		

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Date and time local transaction	The local year, month, day and time the transaction takes place at the card acceptor location in authorization messages and financial presentment messages.	CCYYMMDDhhmmss	n 14	(see C.3.7)	12	X	
Date and time transmission	Date and time the message initiator sends this message. To be expressed in Coordinated Universal Time (UTC) (shall conform with ISO 8601-1 and ISO 8601-2), formerly known as Greenwich Mean Time (GMT).	MMDDhhmmss	n 10	(see C.3.5)	7		
Date anticipated	The date on which the sale, purchase or transfer is expected to occur.	CCYYMMDD	n 8	(see C.3.35.1)			104-01, 104-7A
Date capture	The month and day the acquirer processed the transaction data.	MMDD	n 4		17		
Date conversion	The month and day the conversion rate is effective to convert the transaction amount from the original to reconciliation currency.	MMDD	n 4		16		
Date effective	The year and month in which the card becomes effective.	CCYYMM	n 6		13		
Date expiration	The year and month after which the card expires.	YYMM	n 4		14		
Date local transaction	The local year, month and day of the transaction.	CCYYMMDD	n 8	(see C.3.7)		12	
Date reconciliation	The year, month and day for which financial totals are reconciled	CCYYMMDD	n 8		28		

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
	between the acquirer and the card issuer.						
Date settlement	The year, month and day for which funds shall be transferred between acquirer and card issuer.	CCYYMMDD	n 8		15		
DCC requested	Dynamic currency conversion requested at POS	Y = yes N = no	a 1	(see C.3.14.5)			34-03, 34-75
DCC result	Result of dynamic currency conversion request		an 2	(see C.3.14.6 and D.5)			34-04, 34-76
Debits amount	The sum amount of amount transaction in all financial presentment transactions exclusive of any fees where positions 1-2 of the processing code in the financial presentment transaction indicated a debit (00-19).		n 16	(see C.3.32)		74	
Debits chargeback amount	The sum amount of amount transaction in all chargeback transactions exclusive of any fees where positions 1-2 of the processing code in the chargeback transaction indicated a credit (20-29).		n 16	(see C.3.32)		74	
Debits chargeback number	The sum number of all chargeback transactions where positions 1-2 of the processing code in the chargeback transaction indicated a credit (20-29).		n 10	(see C.3.32)		74	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Debits number	The sum number of all financial presentment transactions where positions 1-2 of the processing code in the financial presentment transaction indicated a debit (00-19).		n 10	(see C.3.32)		74	
Debits reversal amount	The sum amount of amount transaction of all reversal transactions exclusive of any fees where positions 1-2 of the processing code in the reversal transaction indicated a credit (20-29).		n 16	(see C.3.32)		74	
Debits reversal number	The sum number of all reversal transactions where positions 1-2 of the processing code in the reversal transaction indicated a credit (20-29).		n 10	(see C.3.32)		74	
Deferred delivery	Delivery of the goods or services is delayed beyond the normal time frame after purchase.	1 = true	an 1	(see C.3.14.4)			34-02, 34-74
Destination base currency code	Identifies the base currency used for FX trading for the transaction party associated with the destination (shall conform with ISO 4217).		n 3	(see C.3.31.1)			71-01, 71-71
Destination counter currency code	Identifies the counter currency used for FX trading for the transaction party associated with the destination (shall conform with ISO 4217).		n 3	(see C.3.31.1)			71-01, 71-71

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Destination exchange rate	Contains the exchange rate for the transaction party associated with the destination		n 8	(see **Error! Reference source not found.** and C.3.31.1)			71-01, 71-71
Destination exchange rate type	Contains the exchange rate type for the transaction party associated with the destination	1=buy, 2=sell, 3=mid, 4=agreed	n 1	(see C.3.31.1)			71-01, 71-71
Destination exchange rate agreement type	Contains the exchange rate agreement type for the transaction party associated with the destination	0=normal, 1=spot, 2=forward contract	n 1	(see C.3.31.1)			71-01, 71-71
Driver licence	Driver licence of the customer	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
Driver licence issuing country	Driver licence issuing country of the customer (shall conform with ISO 3166-1).		n 3	(see C.3.21.3)			51-03, 51-73
Driver licence issuing state, province or region code	Driver licence issuing state, province or region code of the customer (shall conform with ISO 3166-2, or as specified by local authority).		ans 3	(see C.3.21.3)			51-03, 51-73
Encryption data	Key-management-related data and elements for encryption (shall conform with ISO 13492)[1].	LLLLVAR	ans..9999	(see C.3.20)	50		
Error severity code	Indicates whether or not the error condition caused the receiver to reject the message. Contained in message error indicator.		n 2	(see C.3.8)		18	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Exchange rate	The value of one currency expressed in relation to another currency. Exchange rate expresses the ratio between two currencies, e.g. exchange rate = base currency price/counter currency price.		n 8	(see **Error! Reference source not found.** and C.3.31.1)			71-01, 71-71
Exchange rate identification	Identification of the specific rate, table or file that contains the rate information.	LLVAR	ans..70	(see C.3.31.1)			71-01, 71-71
Exchange rate lock applied	Indicates if a rate lock was applied to the transaction.	0=not applied, 1=applied	n 1	(see C.3.31.1)			71-01, 71-71
Exchange rate lock eligible	Indicates if a transaction is eligible for a rate lock.	0=not eligible, 1=eligible	n 1	(see C.3.31.1)			71-01, 71-71
Exchange rate lock requested	Indicates if a transaction is requesting or has requested a rate lock.	0=not requested, 1=requested	n 1	(see C.3.31.1)			71-01, 71-71
Extended payment data	Number of months that the cardholder prefers to pay for this item if permitted by the card issuer.		n 2		67		
Fee collections number	The sum number of all fee collection transactions.		n 10	(see C.3.33)		75	
Fee type code	Code indicating the type of fee contained in the data elements Amounts fees, reconciliation fee amounts credit and reconciliation fee amounts debit.		n 2	(see C.3.18, C.3.36 and D.11)		46, 109, 110	
File name	The actual or abbreviated name of the file being accessed.	LLVAR	ans..99		101		

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
File transfer description data	The total length and the number of elementary data records of the file, used in the management of file transfer.		n 18	(see C.3.30)	70	X	
File transfer elementary data record count	The total number of elementary data records in the file to be transferred.		n 6	(see C.3.30)		70	
File transfer file size	The total length in bytes of the file to be transferred.		n 6	(see C.3.30)		70	
File transfer remaining elementary data record count	The remaining number of elementary data records to be transmitted in the current file transfer.		n 6	(see C.3.30)		70	
Fleet amount bottom line discount	Discount amount on total purchase.		n 12	(see **Error! Reference source not found.** and C.3.35.9)			104-78
Fleet driver number/other identification number	The number assigned to the driver by the employer for purposes of tracking fuel purchases.	LLVAR	n..17	(see C.3.35.9)			104-78
Fleet line item value excluding tax	Total line amount excluding tax.		n 12	(see **Error! Reference source not found.** and C.3.35.9)			104-78
Fleet line item value including tax	Total line amount including tax.		n 12	(see **Error! Reference source not found.** and C.3.35.9)			104-78
Fleet motor fuel oil company brand name	Acquirer's abbreviation for the brand name of the card acceptor's oil company.		n 4	(see C.3.35.9)			104-78

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Fleet motor fuel prompt code	Contains a code read from a card that indicates terminal prompts that occur at the POS.		n 1	(see C.3.35.9 and D.12)			104-78
Fleet motor fuel service type code	Type of service received at the acceptor location.		ans 1	(see C.3.35.9 and D.13)			104-78
Fleet odometer reading	Reading of total distance travelled by vehicle.		n 8	(see C.3.35.9)			104-78
Fleet product code	Code which identifies a specific product as supplied by the card acceptor.	LLVAR	an..15	(see C.3.35.9)			104-78
Fleet product quantity	Quantity of goods purchased.	LLVAR	n..12	(see C.3.35.9)			104-78
Fleet quantity minor unit	Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit of fleet product quantity.		n 1	(see C.3.35.9)			104-78
Fleet total tax amount	Total amount of tax on the transaction.		n 12	(see 5.1.3 and C.3.35.9)			104-78
Fleet unit of measure	Unit of measure of quantity purchased as defined by card acceptor.	LLVAR	ans..12	(see C.3.35.9)			104-78
Fleet unit price excluding tax	Price per unit net of tax.		n 12	(see C.3.35.9)			104-78
Fleet unit price including tax	Price per unit inclusive of tax		n 12	(see 5.1.3 and C.3.35.9)			104-78
Fleet vehicle registration number	Registration number of rented or fleet automobile.		an 17	(see C.3.35.9)			104-78
Forwarding institution	Code identifying the forwarding institution.	LLVAR	n..11	(see **Error! Reference**	33		

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
identification code				**source not found.**)			
Free-form description data	Transaction data related to new programmes and services, content and format are based on bilateral agreement.	LLLVAR	ans..999	(see C.3.35.2)			104-71
Function code	Code indicating the specific purpose of the message within its message class.		n 3	(see D.14)	24		
High risk transaction, acceptor	Card acceptor or acquirer deemed the transaction to be high risk.	1 = true	an 1	(see C.3.14.4)			34-02, 34-74
ICC scripts data length	Number of characters of data from a card issuer that can be returned to the ICC at the POS.		n 3	(see C.3.11)		27	
ICC system related data	Contains data related to ICC systems.	LLLLVAR	b..9999	(see C.3.23)	55		X
Initiating party	Identifies if the customer initiated the transaction or if the merchant initiated the transaction due to a standing instruction or other agreement.	0 = customer 1 = merchant	an 1	(see C.3.14.4)			34-02, 34-74
Inquiries number	The sum number of all authorization transactions processed where positions 1-2 of the processing code in the authorization transaction indicated an inquiry (30-39).		n 10	(see C.3.33)		75	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Inquiries reversal number	The sum number of all reversal transactions processed where positions 1-2 of the processing code in the reversal transaction indicated an inquiry (30-39).		n 10	(see C.3.33)		75	
Instant payment requested	Request to provide instant posting of funds from or to an account.	Y = yes N = no	a 1	(see C.3.14.5)			34-03, 34-75
Instant payment result	Result of instant payment request.		an 2	(see C.3.14.6 and D.5)			34-04, 34-76
Invoice alternate tax identifier	The card acceptors tax identification number for the invoice amount alternate tax.		ans 15	(see C.3.35.3)			104-72
Invoice amount alternate tax	Amount of the alternate tax on the purchase.		n 12	(see **Error! Reference source not found.** and C.3.35.3)			104-72
Invoice amount alternate tax indicator	Indicates whether alternate tax amount is included in the total purchase amount.	Y = yes N = no Space = unknown	as 1	(see C.3.35.3)			104-72
Invoice amount bottom line discount	Discount amount on total purchase.		n 12	(see **Error! Reference source not found.** and C.3.35.3)			104-72
Invoice amount duty	Duty on the total purchase amount.		n 12	(see **Error! Reference source not found.** and C.3.35.3)			104-72
Invoice amount freight excluding tax	Amount charged for freight/delivery excluding any tax.		n 12	(see **Error! Reference source not found.** and C.3.35.3)			104-72

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Invoice amount freight including tax	Amount charged for freight/delivery including any tax.		n 12	(see **Error! Reference source not found.** and C.3.35.3)			104-72
Invoice amount total tax	Total amount of tax on the transaction.		n 12	(see **Error! Reference source not found.** and C.3.35.3)			104-72
Invoice card acceptor customer reference number	Card acceptors reference number for corporate customer.	LLVAR	an..17	(see C.3.35.3)			104-72
Invoice card acceptor invoice reference number	Reference number on card acceptor invoice.	LLVAR	an..12	(see C.3.35.3)			104-72
Invoice card acceptor order number	Order number allocated by the card acceptor.	LLVAR	an..15	(see C.3.35.3)			104-72
Invoice card acceptor tax reference number	Registered tax reference number of card acceptor.	LLVAR	an..20	(see C.3.35.3)			104-72
Invoice card acceptor type	A code allocated by the acquirer, describing various classifications of business ownership characteristics, e.g. small business.		ans 4	(see C.3.35.3)			104-72
Invoice cardholder order reference number	Reference number given by cardholder.	LLVAR	an..22	(see C.3.35.3)			104-72
Invoice cardholder's tax reference number	Tax reference number of cardholder's company.	LLVAR	an..13	(see C.3.35.3)			104-72
Invoice cost centre	Cardholder's internal accounting cost centre code.	LLVAR	a..20	(see C.3.35.3)			104-72

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Invoice customer reference	Cardholder supplied reference number.	LLVAR	ans..20	(see C.3.35.3)			104-72
Invoice destination country code	Country of destination for delivery of goods (shall conform with ISO 3166-1).		an 3	(see C.3.35.3)			104-72
Invoice destination postal code	Postal code for delivery of goods.	LLVAR	an..10	(see C.3.35.3)			104-72
Invoice destination state/province code	State or province within the country where the purchased goods will be delivered (shall conform with ISO 3166-2, or as specified by local authority).		ans 3	(see C.3.35.3)			104-72
Invoice freight tax rate	Rate of tax to be applied to invoice freight amount excluding tax to calculate the tax on the freight charges.		n 4	(see C.3.35.3)			104-72
Invoice order date	Date when order was placed.	CCYYMMDD	n 8	(see C.3.35.3)			104-72
Invoice original invoice number	Invoice number of the original invoice. Used to identify the original invoice on a refund transaction.	LLVAR	an..15	(see C.3.35.3)			104-72
Invoice ship from postal code	Postal code from which goods are to be shipped.	LLVAR	an..10	(see C.3.35.3)			104-72
Invoice tax indicator	Indicator of whether tax is included.	0 = Tax not included 1 = Tax included	n 1	(see C.3.35.3)			104-72
Invoice value excluding tax	Invoice total, net of tax.		n 12	(see **Error! Reference source not found.** and C.3.35.3)			104-72

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Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Julian processing date	Date acquirer processed the original transaction, e.g. first presentment.	YDDD	n 4	(see C.3.13)		31	
Key management data	Contains data related to key management (shall conform with ISO 13492)[2].	LLLVAR	b..999		96		
	8583 for backwards compatibility while transitioning to bit 50.						
Law enforcement identification	Identification used by law enforcement.	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
Law enforcement identification issuing country code	Identifies the country of issuance of the law enforcement identification (shall conform with ISO 3166-1).		n 3	(see C.3.21.3)			51-03, 51-73
Law enforcement identification issuing state, province or region code	Identifies the state, province or region within the country of issuance of the law enforcement identification (shall conform with ISO 3166-2 or the local authority).		ans 3	(see C.3.21.3)			51-03, 51-73
Life cycle authentication token	A code calculated using an algorithm against key transaction data elements that are common to both authorization messages and financial presentment messages.		n 4	(see C.3.9)		21	
Life cycle support indicator	Indicates the point in the transaction life cycle at which life cycle		ans 1	(see C.3.9)		21	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
	trace identifier was assigned.						
Life cycle trace identifier	Unique transaction identifier.		ans 15	(see C.3.9)		21	
Life cycle transaction sequence number	Number used with life cycle trace identifier to uniquely identify when multiple financial presentments are generated from a single authorization transaction.		n 2	(see C.3.9)		21	
Line item amount discount	Amount of discount per line if unit price is before discount.		n 12	(see **Error! Reference source not found.** and C.3.35.4)			104-73
Line item amount tax	Tax amount for the line item.		n 12	(see **Error! Reference source not found.** and C.3.35.4)			104-73
Line item commodity code	Code of goods purchased. Defined by national tax authorities.	LLVAR	an..16	(see C.3.35.4)			104-73
Line item dataset sequence number	Identifies the sequence in which multiple datasets with the same dataset identifier should be processed.		b 2	(see C.3.35.4)			104-73
Line item descriptor	Description of item purchased.	LLVAR	an..40	(see C.3.35.4)			104-73
Line item discount indicator	Indicates whether the line item amount is discounted.	Y = yes N = no Space = unknown	as 1	(see C.3.35.4)			104-73
Line item discount rate	Discount rate for the line item.		ans 5	(see C.3.35.4)			104-73
Line item product code	Code which identifies a specific product as supplied by the card acceptor.	LLVAR	an..15	(see C.3.35.4)			104-73

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Line item product quantity	Quantity of goods purchased.	LLVAR	n..12	(see C.3.35.4)			104-73
Line item quantity minor unit	Indicates the number of places the decimal point shall be moved to the left, starting from the rightmost numeric digit of line item product quantity.		n 1	(see C.3.35.4)			104-73
Line item tax rate	Rate of tax to be applied to calculate the tax amount.		n 5	(see C.3.35.4)			104-73
Line item tax type	Code, defined by the acquirer, identifying the type of tax applied to the line item.		ans 4	(see C.3.35.4)			104-73
Line item unit of measure	Unit of measure of quantity purchased as defined by card acceptor.	LLVAR	a..12	(see C.3.35.4)			104-73
Line item unit price excluding tax	Price per unit net of tax.	LLVAR	n..12	(see C.3.35.4)			104-73
Line item value debit/credit indicator	Indicates whether the line item value is a debit or a credit.	D = Debit C = Credit Space = unknown	as 1	(see C.3.35.4)			104-73
Line item value excluding tax	Total line amount excluding tax.		n 12	(see **Error! Reference source not found.** and C.3.35.4)			104-73
Line item value including tax	Total line amount including tax.		n 12	(see **Error! Reference source not found.** and C.3.35.4)			104-73
Lodging amount bar/mini-bar	Total amount of bar and in-room "mini-bar" items charged to room.		n 12	(see **Error! Reference source not found.** and C.3.35.8)			104-77

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Lodging amount billing adjustment	Amount of any additional charges incurred after the cardholder's departure from the lodging facility.		n 12	(see **Error! Reference source not found.** and C.3.35.8)			104-77
Lodging amount gift shop	Total amount of gift shop and speciality shop items charged to room.		n 12	(see **Error! Reference source not found.** and C.3.35.8)			104-77
Lodging amount laundry/dry cleaning	Total amount of laundry and dry-cleaning items charged to room.		n 12	(see **Error! Reference source not found.** and C.3.35.8)			104-77
Lodging amount other services	The total amount of miscellaneous items/services charged to the room, not specified elsewhere.		n 12	(see **Error! Reference source not found.** and C.3.35.8)			104-77
Lodging amount other services indicator	Indicates the type of charges provided in lodging amount other services. Values provided by acquirer.		ans 3	(see C.3.35.8)			104-77
Lodging amount phone charges	Total amount of phone calls charged to room.		n 12	(see **Error! Reference source not found.** and C.3.35.8)			104-77
Lodging amount restaurant/room service	Total amount of restaurant and/or room service food charged to room.		n 12	(see **Error! Reference source not found.** and C.3.35.8)			104-77
Lodging amount room rate	Daily room charges exclusive of taxes and fees.		n 12	(see **Error! Reference source not found.** and C.3.35.8)			104-77
Lodging amount room tax	Daily room tax amount.		n 12	(see **Error! Reference source not**			104-77

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
				found. and C.3.35.8)			
Lodging customer service toll-free phone number	Customer service number that the cardholder may call to resolve questions or disputes.		ans 16	(see C.3.35.8)			104-77
Lodging date arrival	Date on which the cardholder checked into the lodging facility.	CCYYMMDD	n 8	(see C.3.35.8)			104-77
Lodging date departure	Date on which the cardholder checked out of the lodging facility.	CCYYMMDD	n 8	(see C.3.35.8)			104-77
Lodging facility phone number	Local phone number of the lodging facility at which the cardholder stayed.		ans 16	(see C.3.35.8)			104-77
Lodging folio number	Lodging facility's internal invoice or billing identification reference number.		ans 10	(see C.3.35.8)			104-77
Lodging program code	Code allocated by the acquirer that identifies special circumstances, e.g. frequent renter or "no show".		ans 2	(see C.3.35.8)			104-77
Loyalty requested	Loyalty programme requested to be applied.	Y = yes N = no	a 1	(see C.3.14.5)			34-03, 34-75
Loyalty result	Result of application of loyalty programme request.		an 2	(see C.3.14.6 and D.5)			34-04, 34-76
Luhn check digit	Check sum on the previous 22 digits of Acquirer reference number calculated shall conform with I SO/IEC 7812-1.		n 1	(see C.3.13)		31	
Magnetic stripe track 3 rewrite capability	Indicates if the POS can rewrite track 3.		a 1	(see C.3.11)		27	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Merchant category code	Code classifying the type of business being done by the card acceptor for this transaction (shall conform to ISO 18245).		n 4		26		
Message authentication code (MAC) field	Used to validate the source and the text of the message between the sender and receiver (shall conform with ISO 9807).		b 4	(see C.3.26 and C.3.37)	64 or 128		
Message error code	Code identifying a specific error condition. Contained in message error indicator.		n 4	(see C.3.8 and D.15)		18	
Message error indicator	Identifies the location, severity and general description of data element errors in a message.	LLLVAR	ansb..140	(see C.3.8)	18	X	
Message reason code	Provides the receiver of a request, advice or notification message with the reason, or purpose, of that message. For original authorizations and financial presentments, it identifies why the type of message was sent, e.g. why an advice versus a request. For other messages it identifies states why this action was taken.		n 4	(see D.16)	25		
Military identification	Military identification	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
Military identification issuing country code	Country code of country which issued the military identification (shall conform with ISO 3166-1).		n 3	(see C.3.21.3)			51-03, 51-73

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Military identification rank	Rank associated with the military identification (e.g. officer, soldier)	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
National identification	National identification number of the customer	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
National identification issuing country code	Country code of the issuing country who issued customer's national identification (shall conform with ISO 3166-1).		n 3	(see C.3.21.3)			51-03, 51-73
Number fee total	The count of all fees of the fee type specified. Contained in the reconciliation fee amounts credit and reconciliation fee amounts debit data elements.		n 10	(see C.3.36)		109, 110	
Original acquiring institution identification code	The acquiring institution identification code of the original financial presentment. Contained in original data elements.		n 11	(see C.3.24)		56	
Original amount fee	The original amount of the fee in a reversal, chargeback or partial approval. Contained in amounts original fees.		xn 13	(see **Error! Reference source not found.** and C.3.27)		66	
Original amount reconciliation	The original amount of the transaction expressed in the reconciliation currency. Contained in amounts original.		n 16	(see **Error! Reference source not found.** and C.3.12)		30	
Original amount reconciliation fee	The original amount of the fee expressed in the reconciliation currency. Contained in amounts original fees.		xn 13	(see **Error! Reference source not found.** and C.3.27)		66	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Original amount transaction	The original amount of the transaction. Contained in amounts original.		n 16	(see **Error! Reference source not found.** and C.3.12)		30	
Original conversion rate fee	The factor used in the conversion from transaction to reconciliation fee amount. The original amount fee is multiplied by original conversion rate fee to determine original amount reconciliation fee. Contained in amounts original fees.		n 8	(see **Error! Reference source not found.** and C.3.27)		66	
Original data elements	The data elements contained in the original message.	LLVAR	n..41	(see C.3.24)	56	X	
Original date and time local transaction	The local date and time of the original transaction. Contained in original data elements.	CCYYMMDDhhmmss	n 14	(see C.3.24)		56	
Original fee type code	Code used to indicate the type of fee. Contained in amounts original.		n 2	(see C.3.27 and D.11)		66	
Original message type identifier	The message type identifier of the original transaction. Contained in original data elements.		n 4	(see C.3.24)		56	
Original system trace audit number	The system trace audit number of the original transaction. Contained in original data elements.		n 12	(see C.3.24)		56	
Originator base currency code	Identifies the base currency used for FX trading for the transaction party associated with the originator (shall		n 3	(see C.3.31.1)			71-01, 71-71

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
	conform with ISO 4217).						
Originator counter currency code	Identifies the counter currency used for FX trading for the transaction party associated with the originator (shall conform with ISO 4217).		n 3	(see C.3.31.1)			71-01, 71-71
Originator exchange rate	Contains the exchange rate for the transaction party associated with the originator.		n 8	(see 5.1.4 and C.3.31.1)			71-01, 71-71
Originator exchange rate type	Contains the exchange rate type for the transaction party associated with the originator.	1=buy, 2=sell, 3=mid, 4=agreed	n 1	(see C.3.31.1)			71-01, 71-71
Originator exchange rate agreement type	Contains the exchange rate agreement type for the transaction party associated with the originator.	0=normal, 1=spot, 2=forward contract	n 1	(see C.3.31.1)			71-01, 71-71
Passport number	Passport number of the customer.	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
Passport issuing country code	Country code of country which issued the passport (shall conform with ISO 3166-1).		n 3	(see C.3.21.3)			51-03, 51-73
Payee	The third-party beneficiary in a financial presentment where the processing code indicates a payment (50-59).		ans 25		98		
Payment account reference (PAR)	A reference identifier assigned to a unique PAN.	LLVAR	an..35	(see C.3.21.1)			51-01, 51-71

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Payments number	The sum number of all financial presentment transactions processed where positions 1-2 of the processing code in the financial presentment transaction indicated a payment (50-59).		n 10	(see C.3.33)		75	
Payments reversal number	The sum number of all reversal transactions processed where positions 1-2 of the Processing code in the reversal transaction indicated a payment (50-59).		n 10	(see C.3.33)		75	
PIN data	Used to identify the cardholder at the POS (shall conform with ISO 9564-1)[3].		b 8		52		
PIN input length capability	The number of PIN digits that the POS device can accept.		b 1	(see C.3.11.3)		27	
POS capability	A series of codes intended to identify the capabilities of the POS.		anb 27	(see C.3.11 and D.18)	27	X	
POS data code	A series of codes intended to identify how a transaction completed at the POS.		b 16	(see C.3.10 and D.19)	22	X	
POS card-reading capability	A series of code values which indicate the card-reading capabilities of the POS.		b 4	(see C.3.11.1 and D.18.1)		27	
POS cardholder verification capability	A series of code values that indicate the POS capabilities available to identify the cardholder.		b 4	(see C.3.11.2 and D.18.2)		27	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
POS environment	A series of code values that indicate if the card acceptor were present and if not the type of environment in which the transaction took place.		b 4	(see C.3.10.3 and D.19.3)		22	
PAN	A series of digits used to identify a customer account or relationship (shall conform with ISO/IEC 7812-1).	LLVAR	n..19	(see **Error! Reference source not found.**)	2		
PAN reference identifier	A unique non-financial reference assigned to a given PAN.	LLVAR	ans..35	(see C.3.21.1)			51-01, 51-71
Prepayment	Identifies when the current transaction is for prepayment (in full or partial) of goods or services not yet received.		an 1	(see C.3.35.10)			104-17, 104-87
Processing code	Code used to describe the effect of a transaction on the customer account and the accounts affected.		an 6	(see C.3.1, D.21 and D.2)	3	X	
Proxy identification	Code identifying customer's proxy identification	LLVAR	ans..99	(see C.3.21.3)			51-03, 51-73
Receiving institution identification code	Code identifying the receiving institution.	LLVAR	n..11	(see 5.1.5)	100		
Reconciliation data primary	Number and amount values required to complete the reconciliation of financial totals.		n 156	(see C.3.32)	74	X	
Reconciliation data secondary	Additional count which may be utilized for reconciliation.		n 90	(see C.3.33)	75	X	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Reconciliation fee amounts credit	The sum amount of amount fee in all authorization, financial presentment, reversal and fee collection messages where the amount fee "x" indicated a credit "C".	LLLVAR	ans..144	(see **Error! Reference source not found.** and C.3.36)	109	X	
Reconciliation fee amounts debit	The sum amount of amount fee in all authorization, financial presentment, reversal and fee collection messages where the amount fee "x" indicated a debit "D".	LLLVAR	ans..144	(see **Error! Reference source not found.** and C.3.36)	110	X	
Reconciliation indicator	A value used to allow reconciliation of time periods within a reconciliation date. The value is subject to bilateral agreement.		n 3		29		
Retrieval reference number	A reference supplied by the system retaining the original source information and used to assist in locating that information or a copy thereof.		anp 12		37		
Risk conditions, acceptor	Risk conditions identified by the card acceptor or acquirer.	Constructed (array)	an 2, iterative (may repeat up to 30 times)	(see C.3.14.4)			34-02, 34-74
Secure temporary storage, POS device capable	Point of service device is capable of secure temporary storage of card details	1 = true	an 1	(see C.3.14.4)			34-02, 34-74
Secure temporary storage, issuer capable	Issuer is capable of receiving transactions with secure temporarily stored details from POS device.	1 = true	an 1	(see C.3.14.4)			34-02, 34-74
Secure temporary storage,	Transaction contains reuse of secure temporarily stored card details from POS device.	1 = true	an 1	(see C.3.14.4)			34-02, 34-74

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
transaction utilized							
Security characteristics	A series of codes that indicate the security characteristics applicable to a transaction.		b 4	(see C.3.10.4 and D.19.4)		22	
Security related control information	Identifies security management information used in the current transaction or specifies security management information to be used in future transactions (shall conform with ISO 13492)[4].	LLVAR	b..48		53		
Sequence number	Data supplied by acquirer.		n 11	(see C.3.13)		31	
Service code	An identification of geographic/service availability (shall conform with ISO 7813).		n 3		40		
Settlement institution identification code	Code identifying the settlement institution or its agent.	LLVAR	an..11		99		
Shipping indicator	Indicates shipping method chosen for the transaction (see shipIndicator in EMVCo 3DS spec)		an 2	(see C.3.14.3 and D.20)			34-01, 34-73
Social security number	Social security number of the customer	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Systems trace audit number	A number assigned by a transaction originator to assist in identifying a transaction uniquely. The trace number remains unchanged for all messages within a two-message exchange, e.g. request/repeat and response.		n 12		11		
Tax identification	Tax identification of the customer.	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
Tax identification issuing country code	Tax identification issuing country code of the customer (shall conform with ISO 3166-1).		n 3	(see C.3.21.3)			51-03, 51-73
Tax identification issuing state, province or region code	Identifies the state, province or region code within the country of issuance of the tax identification (shall conform with ISO 3166-2 or the local authority).		ans 3	(see C.3.21.3)			51-03, 51-73
Terminal certification identification	Contains the identification number of the certification of the terminal model.		ans..35	(see C.3.14.7)			34-05, 34-77
Terminal location, latitude and longitude	Identifies the location of the terminal in latitude/longitude format.	±xxx.xxxxx /±xxx.xxxx x	ans..25	(see C.3.14.7)			34-05, 34-77
Terminal serial number	Identifies the serial number of the terminal.		ans..50	(see C.3.14.7)			34-05, 34-77
Terminal software version	Identifies the software version of the terminal.		ans..70	(see C.3.14.7)			34-05, 34-77
Time local transaction	The local time of the transaction.	hhmmss	n 6	(see C.3.7)		12	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Track 1 data	The information encoded on track 1 of the magnetic stripe as specified in ISO/IEC 7813, including field separators but excluding beginning and ending sentinels and LRC characters as defined therein.	LLVAR	ans..76		45		
Track 2 data	The information encoded on track 2 of the magnetic stripe as specified in ISO/IEC 7813, excluding beginning and ending sentinels and LRC characters as defined therein.	LLVAR	z..37		35		
Track 3 data	The information encoded on track 3 of the magnetic stripe shall conform with ISO/IEC 4909, including field separators, but excluding beginning and ending sentinels and LRC characters as defined therein.	LLLVAR	z..104		36		
Transaction destination institution identification code	Code identifying the institution that is the transaction destination.	LLVAR	n..11	(see **Error! Reference source not found.**)	93		

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Transaction life cycle identification data	A unique identifier used to match transactions throughout their life cycle (e.g. authorization to financial presentment, financial presentment to chargeback). It shall contain the same value in all messages throughout a transaction's life cycle.		ans 22	(see C.3.9)	21	X	
Transaction originator institution identification code	Code identifying the institution that is the transaction originator.	LLVAR	n..11	(see **Error! Reference source not found.**)	94		
Transaction specific data	Non-financial data captured as part of a transaction.	LLLLVAR	ansb..9999	(see C.3.35)	104		X
Transaction specific data, additional	Additional data captured as part of a transaction.	LLLLVAR	ansb..9999	(see C.3.31)	71		X
Transaction type code	Code which indicates the type of transaction being undertaken. Used in conjunction with the account type code as part of the processing code.		an 2	(see C.3.1 and D.21)		3	
Transfers number	The sum number of all financial presentment transactions processed where positions 1-2 of the processing code in the financial presentment transaction indicated a transfer (40-49).		n 10	(see C.3.33)		75	
Transfers reversal number	The sum number of all reversal transactions processed where positions 1-2 of the processing code in the reversal transaction		n 10	(see C.3.33)		75	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
	indicated a transfer (40-49).						
Transport data	Contains data from the originator of the message that shall be returned unaltered in a response message.	LLLVAR	ans..999		59		
Transsstain	A hash value calculated by applying a secure hash algorithm to the XID and card secret (a secret defined value known only to the cardholder and issuer of the cardholder certificate).		b 20	(see C.3.14.2 and C.3.14.3)			34-01, 34-72, 34-73
Travel identification (non-passport)	Non-passport identification used for travel purposes.	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
Travel identification issuing country code	Country code of country which issued the travel identification (shall conform with ISO 3166-1).		n 3	(see C.3.21.3)			51-03, 51-73
Travel identification issuing entity	Entity which issued the travel identification.	LLVAR	ans..35	(see C.3.21.3)			51-03, 51-73
Travel identification issuing state, province or region code	Identifies the state, province or region within the country of issuance of the travel identification (shall conform with ISO 3166-2 or the local authority).		ans 3	(see C.3.21.3)			51-03, 51-73
Trip leg amount departure tax	Tax payable by airline passenger on departure.		n 12	(see **Error! Reference source not found.** and C.3.35.6)			104-75

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Trip leg amount fare	The trip leg airline ticket amount.		n 12	(see **Error! Reference source not found.** and C.3.35.6)			104-75
Trip leg amount fees	The fees associated with each trip leg.		n 12	(see **Error! Reference source not found.** and C.3.35.6)			104-75
Trip leg amount taxes	The total taxes associated with each trip leg.		n 12	(see **Error! Reference source not found.** and C.3.35.6)			104-75
Trip leg arrival time	Time of arrival for each trip leg.		n 4	(see C.3.35.6)			104-75
Trip leg arrival time segment code	Indicates whether the arrival time is in the a.m. or the p.m.	A = a.m. P = p.m. space = unknown	as 1	(see C.3.35.6)			104-75
Trip leg carrier code	Code of airline carrier as defined by ATPCO.		an 2	(see C.3.35.6 and Bibliography)			104-75
Trip leg class of travel	Class of airline journey as defined by ATPCO.		an 2	(see C.3.35.6 and Bibliography)			104-75
Trip leg conjunction ticket number	The ticket that contains additional coupons on an itinerary that is more than four trip legs.	LLVAR	an..15	(see C.3.35.6)			104-75
Trip leg coupon number	Identifies the coupon associated with each trip leg.		ans 1	(see C.3.35.6)			104-75
Trip leg dataset sequence number	Identifies the sequence in which multiple datasets with the same dataset identifier should be processed.		b 2	(see C.3.35.6)			104-75
Trip leg date of travel	Date of departure of airline journey.	CCYYMMDD	n 8	(see C.3.35.6)			104-75

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Trip leg departure airport	Airport from which journey/leg departs as defined by ATPCO.		an 5	(see C.3.35.6 and Bibliography)			104-75
Trip leg departure time	Time of departure for each trip leg.		n 4	(see C.3.35.6)			104-75
Trip leg departure time segment code	Indicates whether the departure time is in the a.m. or p.m.	A = a.m. P = p.m. space = unknown	as 1	(see C.3.35.6)			104-75
Trip leg destination code	Code of destination airport as defined by ATPCO.		an 5	(see C.3.35.6 and Bibliography)			104-75
Trip leg endorsements/restrictions	Agency-added or government required notations, or restrictions such as non-refundable, that are applicable to a trip leg.	LLVAR	ans..20	(see C.3.35.6)			104-75
Trip leg exchange ticket number	The original airline ticket number replaced by a new ticket number.	LLVAR	an..15	(see C.3.35.6)			104-75
Trip leg fare basis code	Basis for calculation of airline fare as defined by ATPCO.	LLVAR	an..15	(see C.3.35.6 and Bibliography)			104-75
Trip leg flight number	Number assigned to each trip leg by the operating or marketing air carrier.		ans 5	(see C.3.35.6)			104-75
Trip leg number	Number of leg or stage of airline journey of a multi-flight booking.		n 2	(see C.3.35.6)			104-75
Trip leg stop over code	Code of stop over airport during an airline journey as defined by ATPCO.		an 1	(see C.3.35.6 and Bibliography)			104-75
User format identifier	Identifier applied by acquirer based on bilateral agreements.		n 1	(see C.3.13)		31	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Value amount additional amounts	The additional amounts in the indicated currency.		n 12	(see **Error! Reference source not found.** and C.3.22)		54	
Value amount cardholder billing	The cardholder billing amount in the indicated currency.		n 12	(see **Error! Reference source not found.** and C.3.4)		6	
Value amount cardholder billing fee	The cardholder billing fee amount in the indicated currency.		n 8	(see **Error! Reference source not found.** and C.3.6)		8	
Value amount fee	The fee amount in the indicated currency.		n 8	(see **Error! Reference source not found.** and C.3.18)		46	
Value amount net reconciliation	The net reconciliation amount in the indicated currency.		xn 17	(see **Error! Reference source not found.** and C.3.34)		97	
Value amount reconciliation	The reconciliation amount in the indicated currency.		n 12	(see **Error! Reference source not found.** and C.3.3)		5	
Value amount reconciliation fee	The reconciliation fee amount in the indicated currency.		n 8	(see **Error! Reference source not found.** and C.3.18)		46	
Value amount transaction	The transaction amount in the indicated currency.		n 12	(see **Error! Reference source not found.** and C.3.2)		4	
Value original amount fee	The original fee amount in the indicated currency.		n 8	(see **Error! Reference source not found.** and C.3.27)		66	

Name	Description	Format	Representation	Notes	Bit	Cons.	Comp.
Value original amount reconciliation	The original reconciliation amount in the indicated currency.		n 12	(see **Error! Reference source not found.** and C.3.12)		30	
Value original amount reconciliation fee	The original reconciliation fee amount in the indicated currency.		n 8	(see **Error! Reference source not found.** and C.3.27)		66	
Value original amount transaction	The original transaction amount in the indicated currency.		n 12	(see **Error! Reference source not found.** and C.3.12)		30	
Verification data	Additional data required to support identification of the cardholder	LLLLVAR	ans..9999	(see C.3.19)	49		X
Wallet provider identification	Identifies the provider of the wallet.	LLVAR	ans..35	(see C.3.21.4)			51-04, 51-74
Wallet provider identification assigner	Identifies the assigner of the wallet provider identification.	LLVAR	ans..35	(see C.3.21.4)			51-04, 51-74
Wallet provider country	Identifies the country where the wallet provider is domiciled (shall conform with ISO 3166-1).		n 3	(see C.3.21.4)			51-04, 51-74
Wallet provider short name	Contains the name of the wallet provider.	LLVAR	ans..35	(see C.3.21.4)			51-04, 51-74
Wallet, additional data	Additional data about the wallet.	LLLVAR	ans..256	(see C.3.21.4)			51-04, 51-74
XID	Value assigned to a transaction as a unique transaction identifier.		b 20	(see C.3.14.2 and C.3.14.3)			34-01, 34-72, 34-73

[1] Encryption data (bit 50) replaces PIN data (bit 52), security- related control information (bit 53) and key management data (bit 96).

[2] Encryption data (bit 50) replaces Key management data (bit 96). This element is still included in ISO.

[3] Encryption data (bit 50) replaces PIN data (bit 52). This element is still included in this document for compatibility while transitioning to bit 50

[4] Encryption data (bit 50) replaces security related control information (bit 53).This element is still included in this document for compatibility while transitioning to bit 50.

C.3 Specific requirements for data elements

C.3.1 Processing code (bit 3)

The processing code is a constructed data element of three parts totalling six positions:

a) transaction type code, an 2;

b) account type code 1, an 2;

c) account type code 2, an 2.

The transaction type code describes the specific transaction type (see D.21). The account type Code 1 describes the account type affected for debits and inquiries and the "from" account for transfers. The account type Code 2 describes the account type affected for credits and the "to" account for transfers (see D.2).

C.3.2 Amount transaction (bit 4)

The Amount transaction data element is a constructed data element of three parts totalling 16 positions:

a) currency code amount transaction, n 3;

b) currency minor unit amount transaction, n 1;

c) value amount transaction, n 12.

C.3.3 Amount reconciliation (bit 5)

The Amount reconciliation data element is a constructed data element of three parts totalling 16 positions:

a) currency code amount reconciliation, n 3;

b) currency minor unit amount reconciliation, n 1;

c) value amount reconciliation, n 12.

C.3.4 Amount cardholder billing (bit 6)

The Amount cardholder billing is a constructed data element of three parts totalling 16 positions:

a) currency code amount cardholder billing, n 3;

b) currency minor unit amount cardholder billing, n 1;

c) value amount cardholder billing, n 12.

The Amount cardholder billing data element may be used to:

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— provide the Amount transaction expressed in the currency of the cardholder in a response message, e.g. for printing on a receipt;

— provide the Amount transaction expressed in the currency of the cardholder in a request, advice or notification message when it is different from both the currency of transaction and currency of reconciliation.

C.3.5 Date and time transmission (bit 7)

Date and time transmission is a primitive data element. The message initiator creates the Date and time transmission. The content is the UTC timestamp of each message initiator and will change as the content of Forwarding institution identification code changes, following the course of the transaction from one institution to the next.

It is used to support process control between successive institutions through which a transaction is passing. The "message initiator" is each individual institution (as described in**Error! Reference source not found.**) creating its own individual message for passing the transaction on to the next institution. Successive recipients of the message can then log the content of the field for reference purposes.

C.3.6 Amount cardholder billing fee (bit 8)

The Amount cardholder billing fee is a constructed data element of three parts totalling 12 positions:

a)   currency code amount cardholder billing fee, n 3;

b)   currency minor unit amount cardholder billing fee, n 1;

c)   value amount cardholder billing fee, n 8.

The Amount cardholder billing fee data element may be used to provide cardholder fee information, e.g. for posting to a cardholder account, for printing on a receipt.

C.3.7 Date and time local transaction (bit 12)

The Date and time local transaction is a constructed data element of two parts totalling 14 positions:

a)   date local transaction, n 8 format CCYYMMDD;

b)   time local transaction, n 6 format hhmmss.

These parts provide the local year, month, day and time in which the transaction takes place at the card acceptor location in Authorization messages and Financial Presentment messages.

In all other message classes, it is the year, month, day and time set by the initiator of the first message in the transaction.

In all cases it shall remain unchanged throughout the lifetime of the transaction.

C.3.8 Message error indicator (bit 18)

The Message error indicator data element is a constructed data element of up to ten sets of values. Each set of values shall define a single error condition and shall consist of six parts totalling 14 positions:

a) error severity code, n 2;

b) message error code, n 4;

c) data element in error, n 3;

d) data sub-element in error (in constructed data element), n 2;

e) dataset identifier in error (in composite data element), b 1;

f) dataset bit or tag in error (in composite data element), b 2.

The error severity code shall contain a value of 00 to denote a rejected message. Additional values may be set by bilateral agreement to denote a message that was accepted and processed but contained invalid data in non-critical elements.

The message error code shall contain a code identifying the error condition, such as missing data or non-numeric data. Refer to D.15 for a list of message error codes.

The Data element in error shall contain the data element number (001-128) from the message bitmap in which the erroneous data exists.

The Data sub-element in error shall contain a value of zeroes if the data element in error is a primitive or composite data element. If the data element in error is a constructed data element, the data sub-element in error shall contain the part of the element that is in error.

The Dataset identifier in error shall contain a value of zeroes if the data element in error is a primitive or constructed data element. If the data element in error is a composite data element, the dataset identifier in error shall contain the dataset identification number, in binary format, in which the erroneous data occurs.

The Dataset bit or tag in error shall contain a value of zeroes if the data element in error is a primitive or constructed data element. If the data element in error is a composite data element, the dataset bit or tag in error shall contain the dataset bit number or tag number, in binary format, of the erroneous data.

These parts may be repeated several times, so that up to ten different error conditions per message may be reported in this data element.

Table C.3, Table C.4, and Table C.5 show examples of typical error situations.

EXAMPLE 1   An error in a primitive data element. It is assumed that the receiver rejects a message because Message reason code does not contain a valid value. The receiver shall format the Message error indicator data element as shown in Table C.3.

Table C.3 — Error in a primitive element

Data element	Value

Error severity code	00
Message error code	0003
Data element in error	025
Data sub-element in error	00
Dataset identifier in error	00 (binary format)
Dataset bit or tag in error	0000 (binary format)

EXAMPLE 2   An error in a constructed data element. It is assumed that the receiver rejects a message because Original amount transaction contains non-numeric data. The receiver shall format the Message error indicator data element as shown in Table C.4.

Table C.4 — Error in a constructed element

Data element	Value
Error severity code	00
Message error code	0004
Data element in error	030
Data sub-element in error	01
Dataset identifier in error	00 (binary format)
Dataset bit or tag in error	0000 (binary format)

EXAMPLE 3   An error in a composite data element. It is assumed that the receiver rejects a message because the Cardholder certificate serial number is missing. The receiver shall format the Message error indicator data element as shown in Table C.5.

Table C.5 — Error in a composite data element

Data element	Value
Error severity code	00
Message error code	0001
Data element in error	034
Data sub-element in error	00
Dataset identifier in error	72 (binary format)
Dataset bit or tag in error	0002 (binary format)

C.3.9   Transaction life cycle identification data (bit 21)

The Transaction life cycle identification data data element is a constructed data element of four parts totalling 22 positions:

a)   life cycle support indicator, ans 1;

b)   life cycle trace identifier, ans 15;

c)   life cycle transaction sequence number, n 2;

d)   life cycle authentication token, n 4.

Transaction life cycle identification data is a unique identifier used to match transactions across message classes, e.g. authorization to financial presentment or financial presentment to chargeback. It shall contain the same value in all message classes throughout a transaction's life cycle. When this data element is used in transaction matching, one of the methods specified in F.3 shall be used.

Life cycle support indicator is a one-digit message class code indicating the point in a transaction's life when the Life cycle trace identifier was allocated, e.g. 1 for authorization, 2 for financial presentment.

Life cycle trace identifier formatting and the institution that assigns it are defined by bilateral agreement.

Life cycle support indicator and Life cycle trace identifier are allocated at the first point in a transaction's life cycle in which it travels between the acquirer and the card issuer. Once assigned, the Life cycle support indicator and Life cycle trace identifier shall be present in all subsequent messages related to the transaction (e.g. responses, acknowledgements, chargebacks, reversals, retrievals) and shall contain the same value as those originally assigned.

Life cycle transaction sequence number may be assigned by the acquirer following the receipt of an authorization and prior to the submission of the financial presentment.

e)   Where a single authorization was obtained covering a number of financial presentments (e.g. in the airline industry an acquirer may obtain one authorization when a single card is used to purchase multiple tickets at the same time), the acquirer may then submit multiple financial presentments, one for each ticket. Each financial presentment shall contain the same Life cycle trace identifier and an incrementing value in Life cycle transaction sequence number (e.g. 01, 02).

f)   Where multiple authorizations were obtained covering a single financial presentment (e.g. in the hotel industry where an acquirer obtains several authorizations when a cardholder chooses to extend his stay), the acquirer may:

(1) assign the same non-zero value to Transaction life cycle identification data for each authorization and submit the same value in the financial presentment;

(2) alternatively, assign different values to the Transaction life cycle identification data for each authorization and then submit a single financial presentment where the Transaction life cycle identification data of the final authorization obtained shall be used.

Life cycle authentication token is assigned by the card issuer when the transaction is authorised. The acquirer returns it in the following financial presentment message. It is used as a quick means of ensuring that critical data elements contain the same values in the authorization and financial presentment. The card issuer creates it by applying a mutually agreed algorithm to the contents of specific data elements in the authorization request message. The acquirer then submits the same Life cycle authentication token in the financial presentment. Upon receipt of the financial presentment, the card issuer applies the same algorithm and checks to see if this new result equals the Life cycle

authentication token submitted by the acquirer. If so, the card issuer may assume that the values of the critical data elements are the same between the authorization and financial presentment.

The Life cycle transaction sequence number and Life cycle authentication token may be omitted if mutually agreed by the transaction participants. If omitted, these data elements shall contain all zeroes.

C.3.10 Point of service data code (bit 22)

The Point of service data code is a constructed data element (see 4.4.2) of four parts totalling 16 binary characters:

a) card-reading method used at POS, b 4 (see C.3.10.1);

b) cardholder verification method used at POS, b 4 (see C.3.10.2);

c) POS environment, b 4 (see C.3.10.3);

d) security characteristics, b 4 (see C.3.10.4).

The Point of service data code is used to indicate how the transaction was completed at the POS. The data provided by this data element, in conjunction with that provided in Point of service capability, allows card issuers to make appropriate authorization and chargeback decisions.

C.3.10.1 Card-reading method used at POS

The actual method used to obtain the data depends on a number of factors. D.19.1 gives the bit positions indicating the card-reading capabilities actually used by the POS or how account data was obtained for this transaction. The acquirer shall also indicate if a transaction is a fallback transaction by setting the appropriate bit.

C.3.10.2 Cardholder verification method used at POS

The actual method used to verify the cardholder depends on a number of factors. D.19.2 gives bit positions indicating the cardholder verification method actually used by the POS. Multiple cardholder verification methods may be specified, when applicable, for a given transaction.

C.3.10.3 POS Environment

The POS environment may influence the card issuer's authorization decision. A transaction that may be approved at an attended POS may, for example, be declined if the transaction is taking place across the Internet without an acceptable security technique being used.

The significant factor, from the point of view of a card issuer, is the ability of the card acceptor to perform card and cardholder security checks, e.g. any ICC checks, or to compare any signatures with that on the card and possibly pick up the card if requested to do so.

For the purposes of this document:

— attended POS is where the card, cardholder and card acceptor are all present;

— unattended POS is where any one of either the card, cardholder or card acceptor are not present.

The options that this document defines are:

a) unknown, where the acquirer has no information as to the POS environment for this transaction;

b) attended POS, where it is known that the card, cardholder and acceptor are all present;

c) unattended unknown, where it is known that one or other of the card, cardholder or acceptor are not present but it is not known what type of unattended transaction this is;

d) mail order/telephone order, where the transaction completes using a network (such as the telephone network or postal network) where there is no direct communication links possible with the cardholder or the card;

e) electronic commerce, where the transaction is conducted using the Internet. Electronic commerce data indicates which security technique has been used. If an ICC has been read, then IC) systems related data may also be present;

f) mobile commerce, where the transaction is conducted using a mobile phone operator's network (either completely or as a gateway to the Internet). Electronic commerce data indicates which security technique has been used. If an ICC has been read, then ICC systems related data may also be present;

g) recurring (or periodic) transaction, where a cardholder has lodged card details with a card acceptor who submits transactions on a periodic basis, e.g. subscriptions and utility bills;

h) stored details, where card details are stored with the retailer and called upon as transactions are performed, e.g. hotel reservations, Internet wallets and RFID tokens;

i) CAT, which is an automated device that is operated solely by the cardholder, e.g. an automated fuel dispenser;

j) ATM, which is a specific type of CAT but is separately identified due to the higher fraud risks associated with cash. The location of an ATM is also significant, e.g. whether on or off the premises of a financial institution;

k) deferred transaction, where the financial presentment takes place after an agreed period of time has elapsed;

l) instalment transaction, where a fixed number of financial presentment transactions are submitted, usually at agreed intervals.

D.19.3 gives the bit positions indicating the actual environment where the transaction took place. Multiple POS environment characteristics may be specified, when applicable, for a given transaction.

C.3.10.4 Security characteristics

For unattended transactions, the security characteristics of the communications link between the cardholder and the card acceptor are a factor in card issuer authorization and chargeback decision processes. D.19.4 gives the bit positions indicating the security characteristics applicable to the transaction. Multiple security characteristics may be specified, when applicable, for a given transaction.

C.3.11 Point of service capability (bit 27)

Point of service capability is a constructed data element of 11 parts totalling 27 positions:

a)   POS card-reading capability, b 4 (see C.3.11.1);

b)   POS cardholder verification capability, b 4 (see C.3.11.2);

c)   Approval code length, n 1;

d)   Cardholder receipt data length, n 3;

e)   Card acceptor receipt data length, n 3;

f)   Cardholder display data length, n 3;

g)   Card acceptor display data length, n 3;

h)   ICC scripts data length, n 3;

i)   Magnetic stripe track 3 rewrite capability, a 1 (Y or N only);

j)   Card capture capability, a 1 (Y or N only);

k)   PIN input length capability, b 1 (see C.3.11.3).

For d), e), f), g) and h), a length of 000 indicates that the POS does not support card issuer input for this option and a length of 999 indicates that the POS capability is unknown

The Point of service capability data element is used to indicate the capabilities of the POS.

The use of the data provided by this data element in conjunction with that provided in Point of service data code allows card issuers to make appropriate authorization and chargeback decisions.

The growing variety and complexity of transactions is creating the need for the card issuer to be able to send data back to the POS, either for the cardholder, the card acceptor staff, or to update the storage medium on the card, e.g. the ICC via script processing.

To support these requirements, it is necessary for the card issuer to be aware of the limitations of the POS in terms of the amount of data it can accept and the output options it can support.

Additional response data shall be used to return display or receipt details (see C.3.17). Any ICC data shall be returned in ICC systems related data and any track 3 data shall be returned in Track 3 data. The Action code indicates if a card is to be captured or not.

C.3.11.1 POS card-reading capability

A card issued to a cardholder may support several different reading technologies to hold information about the account and the cardholder. It is inevitable that cards will be used in points of service where support for the latest technologies may not yet be available. Table D.19 lists the bit position within the 32 bits (four bytes) for each card-reading capability of the POS that may be applicable to the transaction. Multiple POS card-reading capabilities may be specified, when applicable, for a given transaction.

C.3.11.2 POS cardholder verification capability

A card issuer may support a number of cardholder verification methods, depending on the technologies available on the card. The capabilities of the POS may not be as advanced as the capabilities of the card in supporting all the different techniques for verifying the cardholder. Table D.20 lists the bit position within the 32 bits (four bytes) for each cardholder verification capability of the POS that may be applicable to the transaction. Multiple POS cardholder verification capabilities may be specified, when applicable, for a given transaction.

C.3.11.3 PIN input length capability

The capability of the POS (or ATM) to accept PIN digits input by the cardholder is given as a single binary number where the value indicates the number of PIN digits which can be captured. A value of all zeroes indicates that the capture capability is unknown.

C.3.12 Amounts original (bit 30)

The Amounts original data element is a constructed data element of two parts totalling 32 positions:

a)   original amount transaction, n 16;

b)   original amount reconciliation, n 16.

Both amounts shall consist of three parts totalling 16 positions each, as follows:

—   currency code (Original amount transaction or Original amount reconciliation), n 3;

—   currency minor unit (Original amount transaction or Original amount reconciliation), n 1;

—   value (Original amount transaction or Original amount reconciliation), n 12.

Absence of data shall be indicated by zeroes. These parts shall be used when attempting to partially reverse or partially chargeback a previous transaction or to perform a partial approval and shall contain the original amounts. They shall also be used when performing replacement or supplementary authorizations. The new transaction amounts shall be in the appropriate data elements. These amounts are for information only and shall not be used in the calculation of reconciliation totals.

C.3.13 Acquirer reference number (bit 31)

The Acquirer reference number is a constructed data element consisting of five parts totalling 23 positions:

a)   user format identifier, n 1;

b)   acquirer number, n 6;

c)   Julian processing date, n 4;

d)   sequence number, n 11;

e)   Luhn check digit, n 1.

C.3.14 Acceptance environment data (bit 34)

Acceptance environment data is a composite data element (see 4.4.3) that supports data needed from the POS for processing. Data elements are assigned to specific datasets, as identified in Table C.6.

Table C.6 — Acceptance environment specific datasets

Dataset	TLV dataset identifier	Bitmap dataset identifier	See subclause
Account-based digital signature without certificate (retired)	–	71	C.3.14.1
Public key certificate authentication data (retired)	–	72	C.3.14.2
Authentication data	01	73	C.3.14.3
Acceptance environment additional data	02	74	C.3.14.4
Additional service request data	03	75	C.3.14.5
Additional service result data	04	76	C.3.14.6
Terminal information	05	77	C.3.14.7
Reserved for ISO use	05-40	75-DF	–
Reserved for National use	41-55	E0-EF	–
Reserved for Private use	56-70	F0-FE	–

C.3.14.1 Account-based digital signature without certificate sub-elements

Contains digital signature data used in support of an electronic commerce transaction, see Table C.7.

NOTE This usage has been superseded by dataset 01/73 and is shown here for backward compatibility. New implementations are encouraged to use dataset 01/73 instead of dataset 71.

Table C.7 — Bit 34 — Acceptance environment — Account-based digital signature without certificate sub-elements — Dataset identifier 71

Dataset 71 DBM bit	Name	Format	Representation
1	Continuation bit		

2	Account-based digital signature	LLVAR	b..90

C.3.14.2 Public key certificate authentication data sub-elements

Contains digital certificate and cryptography system data used in support of an electronic commerce transaction, see Table C.8.

NOTE This usage has been superseded by dataset 01/73 and is shown here for backward compatibility. New implementations are encouraged to use dataset 01 or 73 instead of dataset 72.

Table C.8 — Bit 34 — Acceptance environment — Public key certificate authentication data sub-elements — Dataset identifier 72

Dataset 72 DBM bit	Name	Format	Representation
1	Continuation bit		
2	Cardholder certificate serial number	LLVAR	b..16
3	Card acceptor certificate serial number	LLVAR	b..16
4	XID		b 20
5	Transstain		b 20
6-15	Reserved for ISO use		
16	Multiple TLV sub-elements	LLLVAR	b..255
Tag 80	Authentication code	TLV	ansb..50

C.3.14.3 Authentication data sub-elements

Contains data used in supporting of authentication process, see Table C.9

Table C.9 — Bit 34 — Acceptance environment — Authentication data — Dataset identifier 01/73

Dataset 01 TLV tag	Dataset 73 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Account-based digital signature	LLVAR	b..90
81	3	Cardholder certificate serial number	LLVAR	b..16
82	4	Card acceptor certificate serial number	LLVAR	b..16
83	5	XID		b 20
84	6	Authentication Value		b 20
85	7	Authentication code	LLVAR	ansb..50

86	8	Authentication message version number	LLVAR	ans..8
87	9	Authentication message category		an 2
88	10	Authentication merchant name	LLVAR	ans..40
89	11	Authentication browser IP address	LLVAR	ans..45
8A	12	Authentication device information	LLLLVAR	ans..9999
8B	13	Authentication purchase amount	LLVAR	ans..48
8C	14	Authentication purchase currency		n 3
8D	15	Authentication purchase date and time		n 14
8E	16	Authentication address match indicator		a 1
–	17	Continuation bit		
8F	18	Authentication intermediary transaction identifier	LLVAR	ans..36
90	19	Authentication server transaction identifier	LLVAR	ans..36
91	20	Authentication status		a 1
92	21	APP IP Address	LLVAR	ans..45
93	22	Shipping Indicator	(see D.20)	an 2

C.3.14.4 Acceptance environment additional data sub-elements

Information about the point of interaction is growing in usage in transactions, such as terminal or browser information. This dataset contains data from the point of interaction that is used in support of a transaction, see Table C.10.

Table C.10 — Bit 34 — Acceptance environment — Additional data — Dataset identifier 02/74

Dataset 02 TLV tag	Dataset 74 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Initiating party	0 = customer 1 = merchant	an 1
81	3	Secure temporary storage, POS device capable	1 = true	an 1
82	4	Secure temporary storage, Issuer capable	1 = true	an 1
83	5	Secure temporary storage, transaction utilized	1 = true	an 1
84	6	High risk transaction, acceptor	1 = true	an 1
85	7	Risk conditions, acceptor	LLVAR Constructed (array)	an 2, iterative (may repeat up to 30 times)

86	8	Deferred delivery	1 = true	an 1
87	9	Acceptance environment authentication outage indicator	0 = no authentication outage 1= authentication outage	n 1
88	10	Payment Credential Merchant Relationship Indicator (use case, autofill on the browser site)	0=no link 1=linked	an1
89	11	Account Entry Device Type	0 = Dedicated mPOS Terminal with PCI compliant dongle (with or without key pad) 1 = Off-the shelf mobile-Consumer 2 = Off-the shelf mobile - Merchant	an1

C.3.14.5 Additional service request data sub-elements

Identifies the additional service(s) to perform or that have been performed as a part of the transaction, see Table C.11.

Table C.11 — Bit 34 — Acceptance environment — Additional service request data — Dataset identifier 03/75

Dataset 03 TLV tag	Dataset 75 DBM bit	Name	Format	Representation
–	1	Continuation bit		

80	2	Card activation requested	Y = yes N = no	a 1
81	3	Cashback requested	Y = yes N = no	a 1
82	4	DCC requested	Y = yes N = no	a 1
83	5	Instant payment requested	Y = yes N = no	a 1
84	6	Loyalty requested	Y = yes N = no	a 1
85	7	Account balance requested	Y = yes N = no	a 1

C.3.14.6 Additional service result data sub-elements

Contains the result(s) of the additional service(s) performed as a part of the transaction, see Table C.12.

Table C.12 — Bit 34 — Acceptance environment — Additional service result data — Dataset identifier 04/76

Dataset 04 TLV tag	Dataset 76 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Card activation result	(see Table D.5)	an 2
81	3	Cashback result	(see Table D.5)	an 2
82	4	DCC result	(see Table D.5)	an 2
83	5	Instant payment result	(see Table D.5)	an 2
84	6	Loyalty result	(see Table D.5)	an 2
85	7	Account balance result	(see Table D.5)	an 2

C.3.14.7 Terminal information

Table C.13 identifies additional information about the terminal used at the point of interaction for a transaction.

Table C.13 — Bit 34 — Acceptance environment — Terminal information — Dataset identifier 05/77

Data set 05 TLV tag	Data set 77 DBM bit	Name	Format	Representation
	1	Continuation bit		b 1

80	2	Terminal serial number	LLVAR	ans..50
81	3	Terminal software version	LLVAR	ans..70
82	4	Terminal location, latitude/longitude	LLVAR	ans..25
83	5	Terminal certification identification	LLVAR	ans..35

C.3.15 Action code (bit 39)

Action code is a primitive data element. The numbering scheme for action codes shall be based upon the type of action and has no direct correlation to the message type identifier. The action codes are grouped as follows:

0xxx: authorization/financial presentment approved. 1xxx: authorization/financial presentment denied.

2xxx: authorization/financial presentment denied, pick up card. 3xxx: file actions.

4xxx: reversal or chargeback actions. 5xxx: reconciliation actions.

6xxx: administrative actions. 7xxx: fee collection actions.

8xxx: network management actions. 9xxx: error/response actions.

The action code values are given in D3

C.3.16 Card acceptor name/location (bit 43)

Card acceptor name/location is a composite data element (see **Error! Reference source not found.**) containing information related to the card acceptor, such as name, city and phone number, see Table C.14.

Table C.14

Dataset	TLV dataset identifier	Bitmap dataset identifier	See subclause
Card acceptor name/location data	01	71	C.3.16.1
Reserved for ISO use	02-40	72-DF	–
Reserved for National use	41-55	E0-EF	–
Reserved for Private use	56-70	F0-FE	–

C.3.16.1 Card acceptor name/location sub-elements

Table C.15 lists the sub-elements, which may be present in the Card acceptor name/location data dataset (01 or 71).

Table C.15 — Bit 43 —Card acceptor name/location — Card acceptor name/location data — Dataset identifier 01/71

Dataset 01 TLV tag	Dataset 71 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Card acceptor name [a]	LLVAR	ans..50
81	3	Card acceptor street address	LLVAR	ans..99
82	4	Card acceptor city [a]	LLVAR	ans..50
83	5	Card acceptor state, province, or region code		ans 3
84	6	Card acceptor postal code		ans 10
85	7	Card acceptor country code [a]		a 3
86	8	Card acceptor phone number		ans 16
87	9	Card acceptor customer service phone number		ans 16
88	10	Card acceptor additional contact information	LLVAR	ans..30
89	11	Card acceptor internet URL	LLLVAR	ans..255
8A	12	Card acceptor email address	LLVAR	ans..99
8B	13	Card acceptor geographic location	LLVAR	ans..19
8C	14	Card acceptor additional address information	LLLVAR	ans..255
[a] This sub-element is required when bit 43 is present.				

C.3.17 Additional response data (bit 44)

Additional response data is a composite data element (see **Error! Reference source not found.**) which informs the card issuer of the capabilities of the POS to support the printing and or display of data from the card issuer. The data to be printed or displayed is returned to the POS in this data element. Table C.16 lists the sub-elements, which may be present.

The potential maximum length of all the sub-elements exceeds that of this data element. It is up to the card issuer to adjust the lengths of the individual sub-elements to ensure the maximum length of this data element is not exceeded.

Table C.16 — Additional response data specific datasets

Dataset	TLV dataset identifier	Bitmap dataset identifier	See subclause
Additional response data	01	71	C.3.17.1
Reserved for ISO use	02-40	72-DF	–
Reserved for National use	41-55	E0-EF	–
Reserved for Private use	56-70	F0-FE	–

C.3.17.1 Additional response data sub-elements

Table C.17 lists sub-elements which may be present in additional response data dataset (01/71)

Table C.17 — Bit 44 — Additional Response Data — Dataset identifier 01/71

Dataset 01 TLV tag	Dataset 71 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Cardholder receipt data	LLVAR	ans..99
81	3	Card acceptor receipt data	LLVAR	ans..99
82	4	Cardholder display data	LLVAR	ans..99
83	5	Card acceptor display data	LLVAR	ans..99
84	6	Card issuer telephone number		ans 16

C.3.18 Amounts fees (bit 46)

The Amounts fees data element is a constructed data element of up to six sets of values. Each set of values shall consist of four parts totalling 36 positions:

a) fee type code, n 2. (see D.11);

b) amount fee, xn 13;

c) conversion rate fee, n 8;

d) amount reconciliation fee, xn 13.

The second and fourth parts shall both consist of three parts totalling 13 positions, as follows:

— currency code (Amount fee or Amount reconciliation fee), n 3;

— currency minor unit (Amount fee or Amount reconciliation fee), n 1;

— sign (Amount fee or Amount reconciliation fee), a 1 ("C" or "D");

— value (Amount fee or Amount reconciliation fee), n 8.

C.3.19 Verification data (bit 49)

Verification data is a composite data element (see 4**Error! Reference source not found.**) containing additional data used to support the identification of someone (e.g. cardholder) or something (e.g. account existence) through the use of address verification, account verification or other identification, such as a driver's licence, see Table C.18.

Table C.18 — Verification data specific datasets

Dataset	TLV dataset identifier	Bitmap dataset identifier	See subclause

Verification request data	01	71	C.3.19.1
Verification results data	02	72	C.3.19.2
Reserved for ISO use	03-40	73-DF	–
Reserved for National use	41-55	E0-EF	–
Reserved for Private use	56-70	F0-FE	–

C.3.19.1 Verification request data sub-elements

Table C.19 contains sub-elements may be present in verification request data dataset (01/71).

Table C.19 — Bit 49 — Verification data — Verification request data — Dataset identifier 01/71

Dataset 01 TLV tag	Dataset 71 DBM bit	Name	Format	Representation
–	1	Continuation bit	–	–
80	2	Card verification data		n 4
81	3	Cardholder billing street address		ans 40
82	4	Cardholder billing postal code		ans 10
83	5	Cardholder billing address compressed		ans 16
84	6	Additional identification type		n 1
85	7	Additional identification reference number	LLVAR	ans..30

C.3.19.2 Verification results data sub-elements

Table C.20 contains sub-elements may be present in verification result data dataset (02/72).

Table C.20 — Bit 49 — Verification data — Verification results data — Dataset identifier 02/72

Dataset 02 TLV tag	Dataset 72 DBM bit	Name	Format	Representation
–	1	Continuation bit	–	–
80	2	Address verification result code		an 1

C.3.20 Encryption data (bit 50)

ISO 13492 has been updated to support new security algorithms and encryption of other sensitive data. As a result of those updates, changes have been made in this document. Those opting to use new features defined in ISO 13492 shall use this data element in place of the existing data elements 52 - PIN data, 53 - Security-related control information and 96 – Key management data. See ISO 13492 for more details on the specific data definitions and usage.

C.3.21 Customer-related data (bit 51)

Customer-related data is a composite data element (see **Error! Reference source not found.**) that contains customer-related data that may be used to further identify or otherwise provide information associated with the customer, such as account information, contact information and customer identification.

Customer-related data may be implemented using either a dataset or TLV or using the Bitmap structure and consist of three sub elements. Table C.21 lists the sub elements.

Table C.21 — Customer related data specific datasets

Dataset	TLV dataset identifier	Bitmap dataset identifier	See subclause
Account data	01	71	C.3.21.1
Contact information -> Reserved for ISO use	02	72	C.3.21.2
Customer identification	03	73	C.3.21.3
Wallet data	04	74	C.3.21.4
Account owner data	05	75	C.3.21.5
Reserved for ISO use	06-40	76-DF	–
Reserved for National use	41-55	E0-EF	–
Reserved for Private use	56-70	F0-FE	–

C.3.21.1 Account data sub-elements

This dataset contains additional information related to the PAN or underlying account, see Table C.22.

Table C.22 — Bit 51— Customer related data — Account data — Dataset identifier 01/71

Dataset 01 TLV tag	Dataset 71 DBM bit	Name	Format	Representation
–	1	Continuation bit	–	–
80	2	Payment account reference	LLVAR	an..35
81	3	PAN reference identifier	LLVAR	ans..35
82	4	Account Reference Code (see D.1)		n 2
83	5	Account Identifier	LLVAR	an.. 70
84	6	Account Identifier Type (see D.		an 2

C.3.21.2 Contact information sub-elements

This dataset contains customer contact information, such as phone number and email address, see Table C.23.

NOTE This usage has been changed to reserve for ISO use, all the sub-elements listed here moved to dataset 05/75 and is shown here for backward compatibility. New implementation is encouraged to use dataset 05/75

Table C.23 — Bit 51— Customer related data — Contact information — Dataset identifier 02/72

Dataset 02 TLV tag	Dataset 72 DBM bit	Name	Format	Representation
–	1	Continuation bit	–	–
80	2	Customer phone number, home	LLVAR	ans..16
81	3	Customer phone number, business	LLVAR	ans..16
82	4	Customer phone number, mobile	LLVAR	ans..16
83	5	Customer phone number, other	LLVAR	ans..16
84	6	Customer email address, personal	LLVAR	ans..99
85	7	Customer email address, business	LLVAR	ans..99
86	8	Customer email address, other	LLVAR	ans..99

C.3.21.3 Customer identification sub-elements

Acquirers and Issuers may use this data set to carry customer's identification information, see Table C.24.

Note, the usage of Tag 80-98/bit 1-28 will be replaced by the code/value, changed to reserved for ISO use, list here for backward capability. New implementation is encouraged to use tag 9F20-9F26/bit 37-44.

Table C.24 — Bit 51— Customer related data — Customer identification — Dataset identifier 03/73

Dataset 03 TLV tag	Dataset 73 DBM bit	Name	Format	Representation
–	1	Continuation bit	–	–
80	2	Customer Identification (unspecified)	LLVAR	ans..99
81	3	Proxy Identification	LLVAR	ans..99
82	4	National Identification	LLVAR	ans..35
83	5	National Identification issuing country code		n 3
84	6	Social Security Number	LLVAR	ans..35
85	7	Passport Number	LLVAR	ans..35
86	8	Driver License	LLVAR	ans..35
87	9	Driver licence issuing country		n 3

88	10	Driver licence issuing state, province or region code		ans 3
89	11	Alien registration number	LLVAR	ans..35
8A	12	Tax identification	LLVAR	ans..35
8B	13	Tax identification issuing country code		n 3
8C	14	Tax identification issuing state, province or region code		ans 3
8D	15	Passport issuing country code		n 3
8E	16	Alien registration number issuing country code		n 3
–	17	Continuation bit		
8F	18	Law enforcement identification	LLVAR	ans..35
90	19	Law enforcement identification issuing country code		n 3
91	20	Law enforcement identification issuing state, province or region code		ans 3
92	21	Military identification	LLVAR	ans..35
93	22	Military identification rank	LLVAR	ans..35
94	23	Military identification issuing country code		n 3
95	24	Travel identification (non-passport)	LLVAR	ans..35
–	25	Continuation bit		
96	26	Travel identification issuing country code		n 3
97	27	Travel identification issuing state, province or region code		ans 3
98	28	Travel identification issuing entity		ans..35
99-9C	29-32	Reserved for ISO use		
-	33	Continuation bit		
9D-9E	34-35	Reserved for ISO use		
9F1F	36	Customer reference code (see D.1)		n 2
9F20	37	Identification type Code (see D.27)		a 4
9F21	38	Identification subtype	LLVAR	ans..35
9F22	39	Identification value	LLVAR	ans..70
9F23	40	Identification Issuing entity	LLVAR	ans...50
=	41	Continuation bit		
9F24	42	Identification Issuing Country Code		a 3

Deleted: 41

Deleted: n

9F25	43	Identification Issuing Sub-division Minor Code	LLVAR	an..3	**Deleted:** 42
9F26	44	Identification Issuing Sub-division Major Code	LLVAR	an..3	**Deleted:** 43

C.3.21.4 Wallet data sub-elements

This data set identifies details about a wallet and its provider, see Table C.25.

Table C.25 — Bit 51— Customer related data — Wallet data — Dataset identifier 04/74

Dataset 04 TLV tag	Dataset 74 DBM bit	Name	Format	Representation
–	1	Continuation bit	–	–
80	2	Wallet provider identification	LLVAR	ans..35
81	3	Wallet provider identification assigner	LLVAR	ans..35
82	4	Wallet provider country		n 3
83	5	Wallet provider short name	LLVAR	ans..35
84	6	Wallet, additional data	LLLVAR	ans..256
85	7	Wallet Account ID	LLVAR	ans..70
86	8	Wallet Account Email	LLVAR	ans..256
87	9	Wallet provider Reason codes for the Assessment result	LLVAR	ans..70

C.3.21.5 Account owner data

Table C.26 contains information related to customers of an account. This interactive dataset will have a separate instance for each account owner and account reference.

Table C.26 — Bit 51— Customer related data — Account owner data — Dataset identifier 05/75

Data set 05 TLV tag	Data set 75 DBM bit	Name	Format	Representation
–	1	Continuation bit		b 1
80	2	Account reference code (see D.1)		n 2
81	3	Account owner designation	01 = Primary 02 = Secondary	n 2
82	4	Account owner name, full	LLVAR	an..99
83	5	Account owner name, given	LLVAR	an..35
84	6	Account owner name, middle	LLVAR	an..35
85	7	Account owner name, last	LLVAR	an..35

86	8	Account owner address line 1	LLVAR	ans..99
87	9	Account owner address line 2	LLVAR	ans..99
88	10	Account owner street name	LLVAR	ans..99
89	11	Account owner building number	LLVAR	ans..16
8A	12	Account owner postal code	LLVAR	ans..16
8B	13	Account owner city name	LLVAR	ans..50
8C	14	Account owner country sub division code, minor	LLVAR	ans..16
8D	15	Account owner country sub division code, major	LLVAR	ans..16
8E	16	Account owner country		a 3
8F	18	Account Owner Nationality		a 3
90	19	Account Owner Country of birth		a 3
91	20	Account Owner Occupation	LLVAR	ans..35
92	21	Date of birth	CCYYMMDD	n 8
93	21	Account Owner phone number, home	LLVAR	ans..16
94	22	Account Owner phone number, business	LLVAR	ans..16
95	23	Account Owner phone number, mobile	LLVAR	ans..16
96	24	Account Owner phone number, other	LLVAR	ans..16
–	25	Continuation bit		
97	26	Account Owner email address, personal	LLVAR	ans..99
98	27	Account Owner email address, business	LLVAR	ans..99
99	28	Account Owner email address, other	LLVAR	ans..99
9A-9C	29-32	Reversed for ISO use		
–	33	Continuation bit		
9D-9E	34-35	Reversed for ISO use		

C.3.22 Amounts additional (bit 54)

The Amounts additional data element is a constructed data element of up to six sets of values. Each set of values shall consist of three parts totalling 21 positions:

a) account type additional amounts, an 2 (as defined in positions 3 and 4 or positions 5 and 6 of the processing code data element (see D.2);

b) amount type additional amounts, an 2 (amount type code values are in D.7);

c) amount additional amounts, xn 17.

The third part (the Amount additional amounts data element) shall consist of three parts totalling 17 positions:

— currency code amount additional amounts, n 3;

— currency minor unit amount additional amounts, n 1;

— sign, a 1 ("C" or "D");

— value amount additional amounts, n 12.

C.3.23 Integrated circuit card (ICC) related data (bit 55)

The ICC related data data element is a special form of a composite data element (see 4.4.3) used to transmit ICC related data from the ICC to the card issuer and from the card issuer to the ICC.

If the data is in accordance with ISO/IEC 7816-6, there is no requirement for a dataset identifier or DBM as these functions are covered by the ISO/IEC 7816-6 TLV coding structures. The result is that the dataset identifier is replaced by the T element, the dataset length by the L element and the sub-elements by the V element.

The ICC data may consist of either a constructed data object and/or a series of individual data objects as specified in ISO/IEC 7816-6.

If the data is in accordance with ISO/IEC 7816-6 and pertains to a single application, the data may be wrapped in a constructed data object. Data structures not in accordance with ISO/IEC 7816-6 are subject to bilateral agreement.

If the data pertains to more than one application, the data for each application shall be grouped together and shall be wrapped by a constructed data object for the length of the data for that application.

Tags may be in any order. Tags are application-specific so that the same tag may appear in more than one application and have different meanings in each application. The constructed data objects may have the same or different tag values. It is up to the card issuer to determine how to process each application.

Figure C.1 shows how a typical ISO/IEC 7816-6-compliant single application can be constructed where there is no application constructed data wrapped around the application objects.

Figure C.2 shows how two typical ISO/IEC 7816-6 applications can be constructed where both have to be wrapped in constructed data objects. The constructed data object tags of 70 and 71 are used within the figure for illustrative purposes only and are not meant to imply any specific usage or purpose in implementations of this document.

The values for the tag and length elements in Figure C.1 and Figure C.2 are given as the hexadecimal equivalent of the relevant binary values. The length of bit 55 is given as a 4-digit numeric value.

Length of DE55	TLV coded data objects in any order								
	T_1	L_1	V_1	T_2	L_2	V_2	T_3	L_3	v_3
0035	4F	10	AID	5A	0A	PAN	9A	03	Date

Figure C.1 — A single application with no constructed data object present

Length of DE55			Two applications encapsulated in constructed data objects																				
0115	T	L	V									T	L	V									
			Data objects belonging to the first application											Data objects belonging to the second application									
			T_1	L_1	V_1	T_2	L_2	V_2	T_3	L_3	V_3			T_1	L_1	V_1	T_2	L_2	V_2	T_3	L_3	V_3
			4F	10	AID	5A	0A	PAN	9A	03	Date			5F20	1B	Name	5A	1A	Address	50	10	Label

Figure C.2 — Two applications each encapsulated within a constructed data object

C.3.24 Original data elements (bit 56)

The Original data elements is a constructed data element of four parts of up to 41 positions:

a)   original message type identifier, n 4;

b)   original system trace audit number, n 12;

c)   original date and time local transaction, n 14;

d)   original acquiring institution identification code, n 11.

Absence of data shall be indicated by zeroes. The length of the variable length sub-element Original acquiring institution identification code is determined from the overall length of this data element.

C.3.25 Authorization life cycle code (bit 57)

The Authorization life cycle code data element is a constructed data element consisting of two parts totalling three positions:

a)   time code, n 1 (see D.8);

b)   time interval, n 2.

Time interval contains a value of 01 to 99 indicating the number of units of time specified in Time code in position 1.

C.3.26 Message authentication code (MAC) (bit 64)

Message authentication code is a primitive data element. This field is used to validate the source and the text of the message between the sender and receiver.

The last bit position of each bitmap shall be reserved for the Message authentication code data element. (See also C.3.37.)

If message authentication is used, the final bit in the final bitmap of the message shall represent the MAC data element and the final bit of any previous bitmaps shall contain zero. This means that only one MAC data element shall be present per message and the MAC data element shall be the last data element of the message.

C.3.27 Amounts original fees (bit 66)

The Amounts original fees data element is a constructed data element of up to six sets of values. Each set of values shall consist of four parts totalling 36 positions:

a) original fee type code, n 2 (see D.11);

b) original amount fee, xn 13;

c) original conversion rate fee, n 8;

d) original amount reconciliation fee, xn 13.

These parts shall be used when attempting to partially reverse or partially chargeback a previous transaction or to perform a partial approval, and shall contain the original fee amounts. The new fee amounts shall be in the appropriate data elements. The original fee amounts are for information only and shall not be used in the calculation of reconciliation totals.

The second and fourth parts (the original amount fee and Original amount reconciliation fee data elements) shall both consist of three parts totalling 13 positions:

— currency code (original amount fee or original amount reconciliation fee), n 3;

— currency minor unit (original amount fee or original amount reconciliation fee), n 1;

— sign (amount fee or amount reconciliation fee), a 1 ("C" or "D");

— value (original amount fee or original amount reconciliation fee), n 8.

C.3.28 Batch/file transfer message control (bit 68)

The Batch/file transfer message control data element is a constructed data element of two parts totalling nine positions:

a) batch/file transfer acknowledgement code, an 1 (seeD.10);

b) batch/file transfer message sequence number, n 8.

See E.19.4.2 and E.20.4.2 for additional information.

C.3.29 Batch/file transfer control data (bit 69)

The Batch/file transfer control data data element is a constructed data element of two parts totalling 40 positions:

a) batch/file transfer message count, n 8;

b) batch/file transfer file identification, ans 32.

See E.19.4.3 and E.20.4.3 for additional information.

C.3.30 File transfer description data (bit 70)

The File transfer description data data element is a constructed data element of three parts totalling 18 positions:

a) file transfer file size, n 6;

b) file transfer elementary data record count, n 6;

c) file transfer remaining elementary data record count, n 6.

See E.20.4.4 for additional information.

C.3.31 Additional transaction specific data (bit 71)

Additional transaction specific data is a composite data element (see **Error! Reference source not found.**) containing additional data captured as a part of a transaction, see Table C.27.

Table C.27 — Additional transaction specific data

Dataset	TLV dataset identifier	Bitmap dataset identifier	See subclause
Rate information	01	71	C.3.31.1
Jurisdiction and settlement data	02	72	C.3.31.2
Expanded Amounts, Transaction	03	73	C.3.31.3
Expanded Amount, Fees	04	74	C.3.31.4
Expanded Amount, Additional	05	75	C.3.31.5
Expanded Amount, Reconciliation Total	06	76	C.3.31.6
Transaction Lifecycle Identifier Data	07	77	C.3.31.7
Reserved for ISO use	07-40	77-DF	–
Reserved for National use	41-55	E0-EF	–
Reserved for Private use	56-70	F0-FE	–

C.3.31.1 Rate information

Table C.28 identifies additional information about rates that are or may be applicable to a transaction.

Table C.28 — Bit 71— Additional transaction specific data — Rate information — Dataset identifier 01/71

Data set 01 TLV tag	Data set 71 DBM bit	Name	Format	Representation
	1	Continuation bit		b 1
80	2	Exchange rate provider	LLVAR	ans..70
81	3	Exchange rate identification	LLVAR	ans..70
82	4	Exchange rate		n 8
83	5	Base currency code, originator		n 3
84	6	Counter currency code, originator		n 3
85	7	Exchange rate, originator		n 8
86	8	Exchange rate type, originator	1=buy, 2=sell, 3=mid, 4=agreed	n 1
87	9	Exchange rate agreement type, originator	0=normal, 1=spot, 2=forward contract	n 1
88	10	Base currency code, destination		n 3
89	11	Counter currency code, destination		n 3
8A	12	Exchange rate, destination		n 8
8B	13	Exchange rate type, destination	1=buy, 2=sell, 3=mid, 4=agreed	n 1
8C	14	Exchange rate agreement type, destination	0=normal, 1=spot, 2=forward contract	n 1
8D	15	Exchange rate lock requested	0=not requested 1=requested	n 1
8E	16	Exchange rate lock eligible	0=not eligible, 1=eligible	n 1
	17	Continuation bit		
8F	18	Exchange rate lock applied	0=not applied, 1=applied	n 1

C.3.31.2 Jurisdiction and settlement data

Table C.29 contains jurisdiction and settlement information that is applicable to the transaction.

Table C.29 — Bit 71— Additional transaction specific data — Jurisdiction and settlement data — Dataset identifier 02/72

Data set 02 TLV tag	Data set 72 DBM bit	Name	Format	Representation
	1	Continuation bit		b 1
80	2	Domestic indicator	0=non-domestic 1=domestic	n 1
81	3	Domestic qualification	LLVAR	ans..35
82	4	On-us Indicator	0=non on-us transaction 1=on-us transaction	n 1
83	5	Settlement Service Type Proposed	LLVAR	ans..35
84	6	Settlement Service Type Applied	LLVAR	ans..35

C.3.31.3 Expanded Amounts, Transaction

Table C.30 contains jurisdiction and settlement information that is applicable to the transaction.

Table C.30 — Bit 71— Additional transaction specific data — Expanded Amount Transaction — Dataset identifier 02/72

Data set 03 TLV tag	Data set 73 DBM bit	Name	Format	Representation
–	1	Continuation bit		b 1
80	2	Transaction Currency		n 3
81	3	Currency Minor Unit of Transaction Amount		n 1
82	4	Transaction Amount	LLVAR	n..18
83	5	Reconciliation Currency Code		n 3
84	6	Currency Minor Unit of Reconciliation Amount		n 1
85	7	Reconciliation Amount	LLVAR	n..18
86	8	Cardholder Billing Currency Code		n 3

87	9	Currency Minor Unit of Cardholder Billing Amount		n 1
88	10	Cardholder Billing Amount	LLVAR	n..18
89	11	Original Transaction Currency Code		n 3
8A	12	Original Currency Minor Unit of Transaction Amount		n 1
8B	13	Original Transaction Amount	LLVAR	n..18
8C	14	Original Reconciliation Currency		n 3
8D	15	Original Currency Minor Unit of Reconciliation Amount		n 1
8E	16	Original Reconciliation Amount	LLVAR	n..18
–	17	Continuation bit		
8F	18	Original Cardholder Billing Currency		n 3
90	19	Original Currency Minor Unit of Cardholder Amount Billing		n 1
91	20	Original Cardholder Billing Amount	LLVAR	n..18

C.3.31.4 Expanded Amounts, fees

Table C.31 contains the expanded amount fees that is applicable to the transaction.

Table C.31 – Bit 71 – Additional Transaction Specific Data – Expanded Amount Fees- Dataset Identifier -04/74

Data set 04 TLV tag	Data set 74 DBM bit	Name	Format	Representation
–	1	Continuation bit		b 1
80	2	Fee Type code		n 2
81	3	Fee Program	LLVAR	ans..35
82	4	Fee Descriptor	LLVAR	ans..35
83	5	Sign (C=Credit, D=Debit)		a 1
84	6	Minor unit of Fee Amount and reconciliation Fee Amount		n 1
85	7	Currency Code, Fee Amount		n 3
86	8	Fee Amount	LLVAR	n..18
87	9	Currency Code, Reconciliation Fee Amount		n 3
88	10	Reconciliation Fee Amount	LLVAR	n..18
89	11	Reconciliation Exchange Rate	LLVAR	n..8
89	11	Assigner ACQR= Acquirer, AGNT=Agent, ISUR=Issuer		a 4

C.3.31.5 Expanded Amount, Additional

Table C.32 contains the expanded amount, Additional that is applicable to the transaction.

Table C.32 – Bit 71 – Additional Transaction Specific Data – Expanded Amount Additional-Dataset Identifier -05/75

Data set 05 TLV tag	Data set 75 DBM bit	Name	Format	Representation
–	1	Continuation bit		b 1
80	2	Amount Type code		n 2
81	3	Sign (C=Credit, D=Debit)		a 1
82	4	Currency Minor Unit of Transaction Amount		n 1
83	5	Amount Value	LLVAR	n..18

C.3.31.6 Expanded Amounts, Reconciliation Total

Table C.33 contains the expanded amount fees that is applicable to the transaction.

Table C.33 – Bit 71 – Additional Transaction Specific Data – Expanded Amount Reconciliation Total - Dataset Identifier -06/76

Data set 06 TLV tag	Data set 76 DBM bit	Name	Format	Representation
–	1	Continuation bit		b 1
80	2	Credit Amount	LLVAR	n..24
81	3	Credit Chargeback Amount	LLVAR	n..24
82	4	Credit Reversal Amount	LLVAR	n..24
83	5	Debit Amount	LLVAR	n..24
84	6	Debit Chargeback Amount	LLVAR	n..24
85	7	Debit Reversal Amount	LLVAR	n..24
86	8	Currency Code Amount, Net Reconciliation		n..3
87	9	Currency minor unit amount, Net reconciliation		n 1
88	10	Amount, Net Reconciliation	LLVAR	n..24

C.3.31.7 Transaction Life Cycle Identifier Data

Table C.34 contains the expanded amount, transactions. (note: this dataset is mirrored bit 21, but change the length of trace id and authentication token)

Table C.34 – Bit 71 – Additional Transaction Specific Data – Transaction Life Cycle Identifier Data- Dataset Identifier -07/77

Data set 07 TLV tag	Data set 77 DBM bit	Name	Format	Representation
–	1	Continuation bit		b 1
80	2	life cycle support indicator		an 1
81	3	life cycle trace Identifier	LLVAR	ans…36
82	4	life cycle transaction sequence number		an 2
83	5	life cycle authentication token	LLVAR	ans…36
84	6	Associated Transaction Life Cycle Trace Identifier	LLVAR	ans…36
85	7	Life Cycle trace identifier validation	LLVAR	ans…37

C.3.32 Reconciliation data primary (bit 74)

The Reconciliation data primary data element is a constructed data element of 12 parts (containing all the individual values needed to calculate Amount net reconciliation) totalling 156 positions:

a) credits amount, n 16;

b) credits number, n 10;

c) credits chargeback amount, n 16;

d) credits chargeback number, n 10;

e) credits reversal amount, n 16;

f) credits reversal number, n 10;

g) debits amount, n 16;

h) debits number, n 10;

i) debits chargeback amount, n 16;

j) debits chargeback number, n 10;

k) debits reversal amount, n 16;

l) debits reversal number, n 10.

The currency code and the associated currency minor units applicable to these data elements are the ones applicable to Amount net reconciliation (see C.3.34).

C.3.33 Reconciliation data secondary (bit 75)

The Reconciliation data secondary data element is a constructed data element of nine parts totalling 90 positions:

a) authorizations number, n 10;

b) authorizations reversal number, n 10;

c) inquiries number, n 10;

d) inquiries reversal number, n 10;

e) fee collections number, n 10;

f) payments number, n 10;

g) payments reversal number, n 10;

h) transfers number, n 10;

i) transfers reversal number, n 10.

C.3.34 Amount net reconciliation (bit 97)

The Amount net reconciliation data element is a constructed data element of three parts totalling 21 positions:

a) currency code amount net reconciliation, n 3;

b) currency minor unit amount net reconciliation, n 1;

c) value amount net reconciliation, xn 17.

C.3.35 Transaction specific data (bit 104)

Transaction specific data is a composite data element (see **Error! Reference source not found.**) containing data related to the non-financial aspects of a transaction.

Financial transaction cards are being used in an increasing number of transactions where additional, non-financial data is being collected as part of value-added services provided by the card issuer. There is a wide and growing range of such additional data covering many differing business environments, e.g. airline itinerary data or purchasing card data with its supporting tax data.

Much of the additional data is industry-specific and therefore only a small selection will ever accompany any one transaction. Non-financial data elements are assigned to industry-specific datasets as in Table C.30.

Table C.35 — Transaction specific data datasets

Dataset	TLV dataset identifier	Bitmap dataset identifier	See subclause
Sale header data	01	7A	C.3.35.1
Sale line item data	02	7B	a
Statement header data	03	7C	a
Statement line item data	04	7D	a
Free form description data	05	71	C.3.35.2
Invoice header data	06	72	C.3.35.3
Invoice line item data	07	73	C.3.35.4
Passenger transport itinerary data	08	74	C.3.35.5
Passenger transport journey data	09	75	C.3.35.6
Vehicle rental/vehicle data	0A	76	C.3.35.7
Lodging summary data	0B	77	C.3.35.8
Lodging line item data	0C	79	a
Fleet card data	0D	78	C.3.35.9
Travel agency header data	0E	7E	a
Travel package line item data	0F	7F	a
Shipping header data	10	80	a
Shipping package line item data	11	81	a
Telecom services header data	12	82	a
Telecom services line item data	13	83	a
Temporary services header data	14	84	a
Temporary services line item data	15	85	a
Instalment	16	86	a
Transaction attributes	17	87	C.3.35.10
Recurring Payment	18	88	C3.35.11
Fleet Header Data	19	89	C3.35.12
Fleet Line Item Data	1A	8A	C3.35.13
Transaction Tax Data	1B	8B	C3.35.14
Reserved for ISO use	1C-40	8C-BF	–

Reserved for National use	41-55	C0-DF	–
Reserved for Private use	56-70	E0-FE	–

a The TLV and Bitmap dataset identifier have been reserved for the dataset definition shown.

C.3.35.1 Sale header data

Table C.36 contains summary-level information about the goods or services being purchased.

Table C.36 — Bit 104— Transaction specific data — Sale header data — Dataset identifier 01/7A

Dataset 01 TLV tag	Dataset 7A DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Date, Anticipated	CCYYMMDD	n 8

C.3.35.2 Free-form description data

Acquirers and card issuers may need to exchange transaction description data that supports an industry or programme that is not defined in existing transaction-specific data dataset IDs. In order to respond quickly to these new business opportunities, the parties involved may agree to a proprietary format for this new data and exchange it by means of the free form description data, see Table C.37.

Table C.37 — Bit 104— Transaction specific data — Free-form description data — Dataset identifier 71

Dataset 05 TLV tag	Dataset 71 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Free-form description data	LLLVAR	ans..999

C.3.35.3 Invoice header data

Table C.38 contains summary level information of invoice data.

Table C.38 — Bit 104— Transaction specific data — Invoice header data — Dataset identifier 72

Dataset 06 TLV tag	Dataset 72 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Invoice tax Indicator	0 = Tax not included 1 = Tax included	n 1

81	3	Invoice cardholder order reference number	LLVAR	an..22
82	4	Invoice cardholder's tax reference number	LLVAR	an..13
83	5	Invoice card acceptor invoice reference number	LLVAR	an..12
84	6	Invoice card acceptor tax reference number	LLVAR	an..20
85	7	Invoice amount total tax		n 12
86	8	Invoice amount bottom line discount		n 12
87	9	Invoice destination postal code	LLVAR	an..10
88	10	Invoice ship from postal code	LLVAR	an..10
89	11	Invoice destination country code		an 3
8A	12	Invoice order date	CCYYMMDD	n 8
8B	13	Invoice amount freight including tax		n 12
8C	14	Invoice cost centre	LLVAR	a..20
8D	15	Invoice customer reference	LLVAR	ans..20
8E	16	Invoice card acceptor order number	LLVAR	an..15
–	17	Continuation bit		
8F	18	Invoice value excluding tax		n 12
90	19	Invoice original invoice number	LLVAR	an..15
91	20	Invoice card acceptor customer reference number	LLVAR	an..17
92	21	Invoice freight tax rate		n 4
93	22	Invoice amount freight excluding tax		n 12
94	23	Invoice card acceptor type		ans 4
95	24	Invoice amount duty		n 12
–	25	Continuation bit		
96	26	Invoice destination state/province code		ans 3
97	27	Invoice amount alternate tax		n 12
98	28	Invoice amount alternate tax indicator	Y = yes N = no Space = unknown	as 1
99	29	Invoice alternate tax identifier		ans 15

C.3.35.4 Invoice line item data

Table C.39 contains the line item details of the invoice data. The data in Table C.34 will be repeated for each item on an invoice.

Table C.39 — Bit 104— Transaction specific data — Invoice line item data — Dataset identifier 73

Dataset 07 TLV tag	Dataset 73 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Line item dataset sequence number		b 2
81	3	Line item commodity code	LLVAR	an..16
82	4	Line item product code	LLVAR	an..15
83	5	Line item descriptor	LLVAR	an..40
84	6	Line item unit of measure	LLVAR	a..12
85	7	Line item unit price excluding tax	LLVAR	n..12
86	8	Line item product quantity	LLVAR	n..12
87	9	Line item amount discount		n 12
88	10	Line item tax rate		n 5
89	11	Line item value excluding tax		n 12
8A	12	Line item value including tax		n 12
8B	13	Line item amount tax		n 12
8C	14	Line item quantity minor unit		n 1
8D	15	Line item discount indicator	Y = yes N = no Space = unknown	as 1
8E	16	Line item tax type		ans 4
–	17	Continuation bit		
8F	18	Line item value debit/credit indicator	D = Debit C = Credit Space = unknown	as 1
90	19	Line item discount rate		ans 5

C.3.35.5 Passenger transport itinerary data

The data defined in Table C.40 and Table C.41 gives the data necessary for card issuers to provide travel reporting services to cardholders and their employers. The data in Table C.36 will be repeated for each leg of a journey.

Table C.40 — Bit 104— Transaction specific data — Passenger transport itinerary data – 1 — Dataset identifier 74

Dataset 08 TLV tag	Dataset 74 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Airline ticket number	LLVAR	an..15
81	3	Airline carrier name	LLVAR	an..19
82	4	Airline travel agency code		an 8
83	5	Airline ticket agency name	LLVAR	an..25
84	6	Airline plan number		an 2
85	7	Airline invoice number		an 6
86	8	Airline original currency code		n 3
87	9	Airline passenger name	LLVAR	ans..29
88	10	Airline customer reference	LLVAR	ans.. 20
89	11	Airline amount original invoice		n 12
8A	12	Airline ticket issue address	LLVAR	ans..16
8B	13	Airline date ticket issue	CCYYMMDD	n 8
8C	14	Airline amount total fare		n 12
8D	15	Airline amount total fees		n 12
8E	16	Airline amount total taxes		n 12
–	17	Continuation bit		

C.3.35.6 Passenger transport journey data

Table C.41 — Bit 104— Transaction specific data — Passenger transport journey data – 2 — Dataset identifier 75

Dataset 09 TLV tag	Dataset 75 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Trip leg dataset sequence number		b 2
81	3	Trip leg number		n 2
82	4	Trip leg departure airport		an 5
83	5	Trip leg carrier code		an 2
84	6	Trip leg fare basis code	LLVAR	an..15
85	7	Trip leg class of travel		an 2

86	8	Trip leg stop over code		an 1
87	9	Trip leg destination code		an 5
88	10	Trip leg date of travel	CCYYMMDD	n 8
89	11	Trip leg amount departure tax		n 12
8A	12	Trip leg conjunction ticket number	LLVAR	an..15
8B	13	Trip leg exchange ticket number	LLVAR	an..15
8C	14	Trip leg coupon number		ans 1
8D	15	Trip leg flight number		ans 5
8E	16	Trip leg departure time		n 4
–	17	Continuation bit		
8F	18	Trip leg departure time segment code	A = a.m. P = p.m. Space = unknown	as 1
90	19	Trip leg arrival time		n 4
91	20	Trip leg arrival time segment code	A = a.m. P = p.m. Space = unknown	as 1
92	21	Trip leg amount fare		n 12
93	22	Trip leg amount fees		n 12
94	23	Trip leg amount taxes		n 12
95	24	Trip leg endorsements/restrictions	LLVAR	ans..20
–	25	Continuation bit		

C.3.35.7 Vehicle rental data

The data in Table C.37 is used to provide vehicle rental reporting services to cardholders and their employers.

Table C.37 — Bit 104— Transaction specific data — Vehicle rental data — Dataset identifier 76

Dataset 0A TLV tag	Dataset 76 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Auto rental address	LLVAR	ans..26
81	3	Auto rental date	CCYYMMDD	n 8

82	4	Auto rental time	HHMM	n 4
83	5	Auto return address	LLVAR	ans..26
84	6	Auto return date	CCYYMMDD	n 8
85	7	Auto return time	HHMM	n 4
86	8	Auto rental distance		n 5
87	9	Auto distance unit of measure	K = kilometres M = miles	a 1
88	10	Auto rental agreement reference	LLVAR	ans..25
89	11	Auto vehicle registration number		an 17
8A	12	Auto odometer reading		n 8
8B	13	Auto renter name	LLVAR	ans..29
8C	14	Auto return city	LLVAR	ans..18
8D	15	Auto return state/province		ans 3
8E	16	Auto return country		ans 3
–	17	Continuation bit		
8F	18	Auto return location identifier		ans 10
90	19	Auto customer service toll-free phone number		ans 16
91	20	Auto rental rate		n 12
92	21	Auto rental rate time period	D = daily W = weekly M = monthly Space = unknown	as 1
93	22	Auto maximum free miles/kilometres		n 4
94	23	Auto amount vehicle insurance		n 12
95	24	Auto vehicle insurance indicator	Y = yes N = No	as 1
			Space = unknown	
–	25	Continuation bit		
96	26	Auto amount adjusted		n 12
97	27	Auto amount adjusted indicator code		as 1
98	28	Auto program code		ans 2
99	29	Auto rental city	LLVAR	ans..18
9A	30	Auto rental state/province		ans 3

9B	31	Auto rental country		ans 3
9C	32	Auto rental location identifier		ans 10
–	33	Continuation bit		
9D	34	Auto rental class identifier		ans 4

C.3.35.8 Lodging data

The data in Table C.38 is used to report information regarding lodging (hotel, motel, etc.) transactions.

Table C.38 — Bit 104— Transaction specific data — Lodging data — Dataset identifier 77

Dataset 0B TLV tag	Dataset 77 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Lodging customer service toll-free phone number		ans 16
81	3	Lodging date arrival	CCYYMMDD	n 8
82	4	Lodging date departure	CCYYMMDD	n 8
83	5	Lodging folio number		ans 10
84	6	Lodging facility phone number		ans 16
85	7	Lodging amount billing adjustment		n 12
86	8	Lodging amount room rate		n 12
87	9	Lodging amount room tax		n 12
88	10	Lodging program code		ans 2
89	11	Lodging amount phone charges		n 12
8A	12	Lodging amount restaurant/room service		n 12
8B	13	Lodging amount bar/mini-bar		n 12
8C	14	Lodging amount laundry/dry cleaning		n 12
8D	15	Lodging amount other services		n 12
8E	16	Lodging amount other services indicator		ans 3
–	17	Continuation bit		
8F	18	Lodging amount gift shop		n 12

C.3.35.9 Fleet card data

The data in Table C.39 is used to report information regarding motor fuel and related purchases involving company-owned fleets of vehicles.

NOTE this usage will be superseded by dataset 19/89 and 1A/8A and is shown here for backward compatibility. New implementations are encouraged to use dataset 19/89 and 1A/8A.

Table C.39 — Bit 104— Transaction specific data — Fleet card data — Dataset identifier 0D/78

Dataset 0D TLV tag	Dataset 78 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Fleet motor fuel oil company brand name		n 4
81	3	Fleet motor fuel service type code		ans 1
82	4	Fleet product code	LLVAR	an..15
83	5	Fleet unit price excluding tax		n 12
84	6	Fleet unit price including tax		n 12
85	7	Fleet unit of measure	LLVAR	ans..12
86	8	Fleet product quantity	LLVAR	n..12
87	9	Fleet quantity minor unit		n 1
88	10	Fleet line item value excluding tax		n 12
89	11	Fleet line item value including tax		n 12
8A	12	Fleet odometer reading		n 8
8B	13	Fleet vehicle registration number		an 17
8C	14	Fleet driver number/other identification number	LLVAR	n..17
8D	15	Fleet motor fuel prompt code		n 1
8E	16	Fleet amount bottom line discount		n 12
–	17	Continuation bit		
8F	18	Fleet amount total tax		n 12

C.3.35.10 Transaction attributes

Table C.40 identifies additional attributes of the transaction.

Table C.40 — Bit 104— Transaction specific data — Transaction attributes — Dataset identifier 17/87

Dataset 17 TLV tag	Dataset 87 DBM bit	Name	Format	Representation
	1	Continuation bit		
80	2	Prepayment		an 1

C.3.35.11 Recurring Payment

Table C.41 contains additional information related to recurring payment.

Table C.41 — Bit 104— Transaction specific data — Recurring Payment — Dataset identifier 18/88

Dataset 18 TLV tag	Dataset 88 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Recurring Payment Type	1 - Registration / first transaction 2 - Subsequent transaction 3 - Modification 4 – Cancellation	n 1
81	3	Payment Amount Indicator Per Transaction	1 = fixed amount Recurring Payment 2 = Recurring Payment with maximum amount	n 1
82	4	Number of Recurring Payment	01-99	n 2
83	5	Frequency of Recurring Payment	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	n 2

84	6	Registration Reference Number	LLVAR	an..35
85	7	Maximum Recurring Payment Amount		n 12
86	8	Validation Indicator	0 = not validated 1 = validated	n 1

C.3.35.12   Fleet Header Data

Table C.42 contains additional summary information related to Fleet transaction.

Table C.42 — Bit 104— Transaction specific data — Fleet Header Data — Dataset identifier 19/89

Dataset 0A TLV tag	Dataset 76 DBM bit	Name	Format	Representation
–	1	Continuation bit		
80	2	Purchase Type		an 1
81	3	Summary commodity identification	LLVAR	ans..35
82	4	Gross fuel amount	LLVAR	n..18
83	5	Net fuel amount	LLVAR	n..18
84	6	gross non-fuel amount	LLVAR	n..18
85	7	Net fuel amount	LLVAR	n..18
86	8	discount amount - fuel	LLVAR	n..12
87	9	discount amount – non-fuel	LLVAR	n..12
88	10	Total discount amount	LLVAR	n..12
89	11	tax amount - fuel	LLVAR	n..12
8A	12	tax amount – non-fuel	LLVAR	n..12
8B	13	Total tax	LLVAR	n..12
8C	14	VAT/Tax Rate		n 4
8D	15	Driver's name	LLVAR	ans..70
8E	16	Driver's ID	LLVAR	ans..70
–	17	Continuation bit		
8F	18	Driver driving license	LLVAR	ans..70
90	19	Driver's employer	LLVAR	ans..70
91	20	Driver's employee ID	LLVAR	ans..70

92	21	Driver's date of birth	CCYYMMDD	n 8
93	22	Vehicle number	LLVAR	ans..35
94	23	Vehicle Identification number	LLVAR	ans..35
95	24	Vehicle Fleet number	LLVAR	ans..10
–	25	Continuation bit		
96	26	Vehicle Sub fleet number	LLVAR	ans..35
97	27	Vehicle Unit number	LLVAR	ans..35
98	28	Vehicle Trailer number	LLVAR	ans..35
99	29	Vehicle tag	LLVAR	ans..35
9A	30	Vehicle tag entry mode		a 4
9B	31	Replacement vehicle indicator		a 1
9C	32	Vehicle odometer reading	LLVAR	n..18
–	33	Continuation bit		
9D	34	Vehicle Fleet hubometer	LLVAR	n..18
9E	35	Vehicle Maintenance Identification	LLVAR	ans..35
9F1F	36	Card fuel prompt code		n 1
9F20	37	Agent fuel prompt code	LLVAR	ans..35
9F21	38	Trip number	LLVAR	ans..35
9F22	39	Trip Job number	LLVAR	ans..10
9F23	40	Trip Work order	LLVAR	ans..70
–	41	Continuation bit		
9F24	42	Trip Invoice number	LLVAR	ans..70
9F25	43	Trip Billing identification	LLVAR	ans..70
9F26	44	Trip Control number	LLVAR	ans..35
9F27	45	Trip Delivery ticket number	LLVAR	ans..35
9F28	46	Local amenity	LLLVAR	ans..250

C.3.35.13 Fleet Line Item Data

Table C.43contains additional line litems information related to Fleet transaction.

Table C.43 — Bit 104— Transaction specific data — Fleet Line Item Data— Dataset identifier 1A/8A

Dataset 18 TLV tag	Dataset 88 DBM bit	Name	Format	Representation
-	1	Continuation bit		
80	2	Fuel Indicator	1=true 0=false	an 1
81	3	Service Type	FLSV=Full service HSDI=High speed dispense SLSV=Self service	a 4
82	4	Fuel Brand Code		an..4
83	5	Product Code	LLVAR	an.. 4
84	6	Product Category/Description	LLVAR	an..35
85	7	Product Qualifier	LLVAR	an.. 6
86	8	Product Code Assigner	LLVAR	an..35
87	9	Unit Price Tax Indicator	1=true 0=false	an 1
88	10	Unit Price	LLVAR	n.. 12
89	15	Unit Price minor unit		n 1
8A	16	Unit of Measure	LITR=Liter USGA=US Gallon GBGA?=Imperial Gallon PUND=Pound KILO=Kilometer KWHO=Kilowatt Hour CHMT=Charging Minutes	a..4
-	17	Continuation bit		
8B	18	Product Quantity	LLVAR	n.. 12
8C	19	quantity minor unit		n1
8D	20	Total time plugged in	HHMMSS	n 6
8E	21	Total charging time	HHMMSS	n 6
8F	22	Start time of charge	HHMMSS	n 6
90	23	Finish time of charge	HHMMSS	n 6
91	24	Total Amount Including Tax (Gross price)	LLVAR	n.. 12

	25	Continuation bit		
92	26	Total Amount Excluding Tax	LLVAR	n.. 12
93	27	Discount Rate - Percentage		n..4
94	28	Discount Rate – Unit Discount		n..5
95	29	Discount Rate – Flat rate per transaction		n.. 5
96	30	Total Discount Amount	LLVAR	n..12
97	31	Net Amount (Gross-Tax-Discount)	LLVAR	n..12
98	32	Non-Taxable Indicator	1=true 0=false	an 1
-	33	Continuation bit		
99	34	VAT/Local Tax Included Indicator	1=true 0=false	an 1
9A	35	VAT/Local Tax Amount	LLVAR	n.. 12
9B	36	VAT/Local Rate		n 4
9C	37	National Tax Included Indicator	1=true 0=false	an 1
9D	38	National Tax Amount	LLVAR	n.. 12
9E	39	National Tax Rate		n 4
9F01	40	Other Tax Included Indicator	1=true 0=false	an 1
-	41	Continuation bit		
9F02	42	Other Tax Amount	LLVAR	n..12
9F03	43	Other Tax Rate		n 4

C.3.35.14 Transaction Tax Data

Table C.44 contains transaction tax data.

Table C.44 — Bit 104— Transaction specific data — Transaction Tax Data— Dataset identifier 1B/8B

Dataset 18 TLV tag	Dataset 88 DBM bit	Name	Format	Representation
-	1	Continuation bit		
80	2	Tax Type Code		an 4

81	3	Tax Description	LLVAR	ans..35
82	4	Tax Exemption	0 = true, 1 = false	an 1
83	5	Tax Exempt Reason	LLVAR	ans..35
84	6	Tax Amount	LLVAR	n..12
85	7	Tax Rate		n 4
86	8	Tax Included in Total	0 = true, 1 = false	an 1
87	9	Tax Amount Sign	C= Credit, D=Debit	a 1

C.3.36 Data in Local Language (Bit 108)

Data in Local Language is a composite data element (see Clause 4.4.3) containing additional data captured as a part of a transaction.

Table C.45 — Data in Local Language

Dataset	TLV dataset identifier	Bitmap dataset identifier	See subclause
Account Owner Data	01	71	C.3.36.1
Acceptor Data	02	72	C.3.36.2
Sponsored Merchant Data	03	73	C.3.36.3
Customer Device Data	04	74	C.3.36.4
Transaction related data	05	75	C.3.36.5
Additional Response Data	06	76	C.3.36.6
Reserved for ISO use	07-40	77-DF	–
Reserved for National use	41-55	E0-EF	–
Reserved for Private use	56-70	F0-FE	–

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C.3.36.1 Account Owner Data in Local Language

Table C3.45 account owner data in local language

Table C.46 — Account Owner Data in Local Language

Data set 01 TLV tag	Data set 71 DBM bit	Name	Format	Representation	Maximum number of Characters
–	1	Continuation bit		b 1	
80	2	Language code	ISO 639 (2 or 3 AN)	an..3	

81	3	Data encoding format		n 2	
82	4	Account reference code (see D.1)		n 2	
83	5	Account owner designation	01 = Primary 02 = Secondary	n 2	
84	6	Account owner name, full	LLLVAR	b..560	140
85	7	Account owner name, given	LLLVAR	b..280	70
86	8	Account owner name, middle	LLLVAR	b..280	70
87	9	Account owner name, last	LLLVAR	b..280	70
88	10	Account Owner Alias	LLLVAR	b..280	70
89	11	Account owner address line 1	LLLVAR	b..800	200
8A	12	Account owner address line 2	LLLVAR	b..800	200
8B	13	Account owner street name	LLLVAR	b..800	200
8C	14	Account owner building number	LLLVAR	b..140	35
8D	15	Account owner postal code	LLLVAR	b..140	35
8E	16	Account owner city name	LLLVAR	b..400	100
	17	Continuation bit	LLLVAR		
8F	18	Account owner country sub division minor name	LLLVAR	b..400	100
90	19	Account owner country sub division major name	LLLVAR	b..400	100
91	20	Account Owner Occupation	LLLVAR	b..140	35

C.3.36.2 Acceptor Data in Local Language

Table C3.46 acceptor data in local language

Table C.47 — Bit 108— Data in Local Language - Acceptor data — Dataset identifier 02/72

Data set 02 TLV tag	Data set 72 DBM bit	Name	Format	Representation	Maximum number of Characters
–	1	Continuation bit		b 1	
80	2	Language code	ISO 639 (2 or 3 AN)	an..3	
81	3	Data encoding format		n 2	
82	4	Acceptor short name	LLLVAR	b..280	70

83	5	Acceptor legal corporate name	LLLVAR	b..840	210
84	6	Acceptor DBA name	LLLVAR	b..840	210
85	7	Acceptor name and location	LLLVAR	b..840	210
86	8	Acceptor address line 1	LLLVAR	b..800	200
87	9	Acceptor address line 2	LLLVAR	b..800	200
88	10	Acceptor street name	LLLVAR	b..800	200
89	11	Acceptor building number	LLLVAR	b..140	35
8A	12	Acceptor postal code	LLLVAR	b..140	35
8B	13	Acceptor city name	LLLVAR	b..400	100
8C	14	Acceptor country sub division minor name	LLLVAR	b..400	100
8D	15	Acceptor country sub division major name	LLLVAR	b..400	100
8E	16	Acceptor additional address	LLLLVAR	b..2048	512
	17	Continuation bit			
8F	18	Acceptor additional contact	LLLLVAR	b..2048	512

C.3.36.3 Sponsored Merchant Data in Local Language

Table C.47 Sponsored Merchant data in local language.

Table C.48— Bit 108— Data in Local Language – Sponsored Merchant data — Dataset identifier 03/73

Data set 03 TLV tag	Data set 73 DBM bit	Name	Format	Representation	Maximum number of Characters
–	1	Continuation bit		b 1	
80	2	Language code	ISO 639 (2 or 3 AN)	an..3	
81	3	Data encoding format		n 2	
82	4	Sponsored merchant short name	LLLVAR	b..280	70
83	5	Sponsored merchant common name	LLLVAR	b..560	140
84	6	Sponsored merchant legal corporate name	LLLVAR	b..840	210
85	7	Sponsored merchant DBA name	LLLVAR	b..840	210
86	8	Sponsored merchant address line 1	LLLVAR	b..800	200
87	9	Sponsored merchant address line 2	LLLVAR	b..800	200

88	10	Sponsored merchant street name	LLLVAR	b..800	200
89	11	Sponsored merchant building number	LLLVAR	b..140	35
8A	12	Sponsored merchant postal code	LLLVAR	b..140	35
8B	13	Sponsored merchant city name	LLLVAR	b..400	100
8C	14	Sponsored merchant country sub division minor name	LLLVAR	b..400	100
8D	15	Sponsored merchant country sub division major name	LLLVAR	b..400	100
8E	16	Sponsored merchant additional address	LLLLVAR	b..2048	512
	17	Continuation bit			
8F	18	Sponsored merchant additional contact	LLLLVAR	b..2048	512

C.3.36.4 Customer Device Data in Local Language

Table C.48 Customer Device data in local language.

Table C.49 — Bit 108— Data in Local Language – Customer Device data — Dataset identifier 04/74

Data set 04 TLV tag	Data set 74 DBM bit	Name	Format	Representation	Maximum number of Characters
–	1	Continuation bit		b 1	
80	2	Language code	ISO 639 (2 or 3 AN)	an..3	
81	3	Data encoding format		n 2	
82	4	Customer device name	LLLVAR	b..400	100
83	5	Customer device name Normalized	LLLVAR	b..400	100

C.3.36.5 Free-form description Data in Local Language

Table C.49 Free-form description data in local language.

Table C.50— Bit 108— Data in Local Language – Free-form description data — Dataset identifier 04/74

Data set 04 TLV tag	Data set 74 DBM bit	Name	Format	Representation	Maximum number of Characters

135

–	1	Continuation bit		b 1	
80	2	Language code	ISO 639 (2 or 3 AN)	an..3	
81	3	Data encoding format		n 2	
82	4	Free-form transaction description	LLLLVAR	b..4000	1000

C.3.36.6 Additional Response Data in Local Language

Table C.50 Additional Response data in local language.

Table C.51 — Bit 108— Data in Local Language – Additional Response Data — Dataset identifier 04/74

Data set 04 TLV tag	Data set 74 DBM bit	Name	Format	Representation	Maximum number of Characters
–	1	Continuation bit		b 1	
80	2	Language code	ISO 639 (2 or 3 AN)	an..3	
81	3	Data encoding format		n 2	
82	4	Cardholder receipt data	LLLVAR	b..800	200
83	5	Card acceptor receipt data	LLLVAR	b..800	200
84	6	Cardholder display data	LLLVAR	b..800	200
85	7	Card acceptor display data	LLLVAR	b..800	200

C.3.37 Reconciliation fee amounts (bit 109/110)

Reconciliation fee amounts credit and Reconciliation fee amounts debit are both constructed data element of up to six sets of values. Each set of values shall consist of three parts totalling 24 positions:

a) fee type code, n 2 (see D.11);

b) amount fee total, n 12;

c) number fee total, n 10.

Fees are accumulated for reconciliation in one of two data elements. The currency code and the associated currency minor units applicable to these data elements are the ones applicable to Amount net reconciliation (see C.3.34).

C.3.38 Message authentication code (MAC) (bit 128)

MAC is a primitive data element. The MAC field is used to validate the source and the text of the message between the sender and receiver.

The last bit position of each bitmap shall be reserved for the MAC data element. (See also C.3.26.)

If message authentication is used, the final bit in the final bitmap of the message shall represent the MAC data element and the final bit of any previous bitmaps shall contain zero. This means that only one MAC data element shall be present per message and the MAC data element shall be the last data element of the message.