**Annex C**(normative) **Data element definitions**

**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 |
|  | 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 | CCYYMMDDhh  mmss | 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 |
|  | 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 |
|  | 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 |
|  |  | 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) |
|  |  | 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 |
|  |  | 34-03, 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 |
|  |  | 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 |
| 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 |
|  |  | 51-02/72 | Customer phone number, home | LLVAR | ans..16 |
|  |  | 51-02/72 | Customer phone number, business | LLVAR | ans..16 |
|  |  | 51-02/72 | Customer phone number, mobile | LLVAR | ans..16 |
|  |  | 51-02/72 | Customer phone number, other | LLVAR | ans..16 |
|  |  | 51-02/72 | Customer email address, personal | LLVAR | ans..99 |
|  |  | 51-02/72 | Customer email address, business | LLVAR | ans..99 |
|  |  | 51-02/72 | 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 |
|  |  | 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 |
|  |  | 51-04/74 | 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 |
|  |  | 51-05/75 | 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 |
| 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 |
| 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 | CCYYMMDDhh  mmss | 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 |
|  | 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 |
|  |  | 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 |
| 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 |
| 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 |
|  |  | 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 |
|  |  | 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 |
|  |  | 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 |
|  |  | 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 |
|  |  | 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 |
| 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 |  |  | Reserved for ISO use | 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 |
| 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 |

**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 |
| 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 5.2.1 and 5.2.65.2.6) | 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 5.2.1 and 5.2.6) | 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 |
| 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 |
| 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 |  |
| 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 5.2.55.2.5) | 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 5.2.1) | 47 |  |  |
| Additional data private | Reserved for private data. The use of this data element is determined by bilateral agreement. | LLLVAR | ans..999 | (see 5.2.1) | 48 |  |  |
| Additional identification reference number | Identification number on additional identification document. | LLVAR | ans..30 | (see 5.2.1 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 5.2.1, 5.2.2 and C.3.17) | 44 |  | X |
| 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 5.2.3 and C.3.35.5) |  |  | 104-08, 104-74 |
| Airline amount total fare | The total airline ticket amount. |  | n 12 | (see 5.2.3 and C.3.35.5) |  |  | 104-08, 104-74 |
| Airline amount total fees | The total fees associated with an airline ticket. |  | n 12 | (see 5.2.3 and C.3.35.5) |  |  | 104-08, 104-74 |
| Airline amount total taxes | The total taxes associated with an airline ticket. |  | n 12 | (see 5.2.3 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. | CCYYMMD D | 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 |
| 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 Bibliograph y) |  |  | 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 5.2.3 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 5.2.3 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 5.2.3 and C.3.6) | 8 | X |  |
| Amount fee | Amount of the fee within the fee type code. Contained in amounts fees. |  | xn 13 | (see 5.2.35.2.3 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 5.2.3 and C.3.36) |  | 109, 110 |  |
| Amount net reconciliation | The net value of all gross amounts. |  | xn 21 | (see 5.2.3 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 5.2.3 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 5.2.3 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 5.2.3 and C.3.2) | 4 | X |  |
| Amount type additional amounts | Identifies the kind of amount contained in amounts additional. |  | an 2 | (see 5.2.3, C.3.22 and D7) |  | 54 |  |
| 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 5.2.3 and C.3.22) | 54 | X |  |
| Amounts fees | Fees associated with this transaction. | LLLVAR | ans..216 | (see 5.2.3 and C.3.18) | 46 | X |  |
| Amounts original | The amount data elements from the original transaction. |  | n 32 | (see 5.2.3 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 5.2.1, 5.2.3 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 |  |  |
| 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 5.2.7, 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 |
| 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. | YYYYMMD DHHMMSS | 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 |  |
| 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 5.2.5) | 58 |  |  |
| Auto amount adjusted | Amount of miscellaneous charges incurred after the vehicle was rented, e.g. extra hours. |  | n 12 | (see 5.2.3 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 5.2.3 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/kilometre s | 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 |
| 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. | CCYYMMD D | 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 |
| 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. | CCYYMMD D | 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 |
| 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 5.2.7 and C.3.16.1) |  |  | 43-01, 43-71 |
| 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 |  |
| 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 5.2.7 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 |
| 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 |  |  |
| 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 displayed on the POS for the cardholder. |  | n 3 | (see C.3.11) |  | 27 |  |
| 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 5.2.4) | 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 5.2.4 and C.3.18) |  | 46 |  |
| 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 5.2.4) | 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 |  |
| 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 5.2.3 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 5.2.3 and C.3.4) |  | 6 |  |
| 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 5.2.3and 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 5.2.3 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 5.2.3 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 5.2.3 and C.3.27) |  | 66 |  |
| 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 5.2.3 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 5.2.3 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 5.2.3 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 5.2.3 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 5.2.3 and C.3.6) |  | 8 |  |
| 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 5.2.3 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 5.2.3 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 5.2.3 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 5.2.3 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 5.2.3 and C.3.2) |  | 4 |  |
| 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 5.2.3 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 5.2.3 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 5.2.3 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 5.2.3 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 |
| 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. | CCYYMMD D | n 8 |  | 73 |  |  |
| 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. | CCYYMMD  Dhhmmss | 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). | MMDDhh mmss | n 10 | (see C.3.5) | 7 |  |  |
| Date anticipated | The date on which the sale, purchase or transfer is expected to occur. | CCYYMMD D | 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. | CCYYMMD D | n 8 | (see C.3.7) |  | 12 |  |
| Date reconciliation | The year, month and day for which financial totals are reconciled between the acquirer and the card issuer. | CCYYMMD D | n 8 |  | 28 |  |  |
| Date settlement | The year, month and day for which funds shall be transferred between acquirer and card issuer. | CCYYMMD D | 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 |  |
| 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 |
| Destination exchange rate | Contains the exchange rate for the transaction party associated with the destination |  | n 8 | (see 5.2.4 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 |  |
| 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 5.2.4 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=request ed | 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 |  |  |
| 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 5.2.3 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 5.2.3 and C.3.35.9) |  |  | 104-78 |
| Fleet line item value including tax | Total line amount including tax. |  | n 12 | (see 5.2.3 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 |
| 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 identification code | Code identifying the forwarding institution. | LLVAR | n..11 | (see 5.2.5) | 33 |  |  |
| 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 |  |
| 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 5.2.3 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 5.2.3 and C.3.35.3) |  |  | 104-72 |
| Invoice amount duty | Duty on the total purchase amount. |  | n 12 | (see 5.2.3 and C.3.35.3) |  |  | 104-72 |
| Invoice amount freight excluding tax | Amount charged for freight/delivery excluding any tax. |  | n 12 | (see 5.2.3 and C.3.35.3) |  |  | 104-72 |
| Invoice amount freight including tax | Amount charged for freight/delivery including any tax. |  | n 12 | (see 5.2.3 and C.3.35.3) |  |  | 104-72 |
| Invoice amount total tax | Total amount of tax on the transaction. |  | n 12 | (see 5.2.3 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 |
| 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. | CCYYMMD D | 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 5.2.3 and C.3.35.3) |  |  | 104-72 |
| 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 trace identifier was assigned. |  | ans 1 | (see C.3.9) |  | 21 |  |
| 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 5.2.3 and C.3.35.4) |  |  | 104-73 |
| Line item amount tax | Tax amount for the line item. |  | n 12 | (see 5.2.3 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 |
| 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 5.2.3 and C.3.35.4) |  |  | 104-73 |
| Line item value including tax | Total line amount including tax. |  | n 12 | (see 5.2.3 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 5.2.3 and C.3.35.8) |  |  | 104-77 |
| Lodging amount billing adjustment | Amount of any additional charges incurred after the cardholder’s departure from the lodging facility. |  | n 12 | (see 5.2.3 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 5.2.3 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 5.2.3 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 5.2.3 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 5.2.3 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 5.2.3 and C.3.35.8) |  |  | 104-77 |
| Lodging amount room rate | Daily room charges exclusive of taxes and fees. |  | n 12 | (see 5.2.3 and C.3.35.8) |  |  | 104-77 |
| Lodging amount room tax | Daily room tax amount. |  | n 12 | (see 5.2.3 and C.3.35.8) |  |  | 104-77 |
| 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. | CCYYMMD D | n 8 | (see C.3.35.8) |  |  | 104-77 |
| Lodging date departure | Date on which the cardholder checked out of the lodging facility. | CCYYMMD D | 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 |  |
| 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 |
| 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 5.2.3 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 5.2.3 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 5.2.3 and C.3.27) |  | 66 |  |
| Original amount transaction | The original amount of the transaction. Contained in amounts original. |  | n 16 | (see 5.2.3 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 5.2.3 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. | CCYYMMD Dhhmmss | 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 conform with ISO 4217). |  | n 3 | (see C.3.31.1) |  |  | 71-01, 71-71 |
| 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 |
| 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 |  |
| 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 5.2.5) | 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 |  |
| 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 5.2.3 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 5.2.3 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. | Constructe d (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 utilized | 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 |
| 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 |
| 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 |  |
| 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 5.2.5) | 93 |  |  |
| 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 5.2.5) | 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 indicated a transfer (40-49). |  | n 10 | (see C.3.33) |  | 75 |  |
| Transport data | Contains data from the originator of the message that shall be returned unaltered in a response message. | LLLVAR | ans..999 |  | 59 |  |  |
| Transstain | 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 5.2.3 and C.3.35.6) |  |  | 104-75 |
| Trip leg amount fare | The trip leg airline ticket amount. |  | n 12 | (see 5.2.3 and C.3.35.6) |  |  | 104-75 |
| Trip leg amount fees | The fees associated with each trip leg. |  | n 12 | (see 5.2.3 and C.3.35.6) |  |  | 104-75 |
| Trip leg amount taxes | The total taxes associated with each trip leg. |  | n 12 | (see 5.2.3 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 Bibliograph y) |  |  | 104-75 |
| Trip leg class of travel | Class of airline journey as defined by ATPCO. |  | an 2 | (see C.3.35.6 and Bibliograph y) |  |  | 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. | CCYYMMD D | n 8 | (see C.3.35.6) |  |  | 104-75 |
| Trip leg departure airport | Airport from which journey/leg departs as defined by ATPCO. |  | an 5 | (see C.3.35.6 and Bibliograph y) |  |  | 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 Bibliograph y) |  |  | 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 Bibliograph y) |  |  | 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 Bibliograph y) |  |  | 104-75 |
| User format identifier | Identifier applied by acquirer based on bilateral agreements. |  | n 1 | (see C.3.13) |  | 31 |  |
| Value amount additional amounts | The additional amounts in the indicated currency. |  | n 12 | (see 5.2.3 and C.3.22) |  | 54 |  |
| Value amount cardholder billing | The cardholder billing amount in the indicated currency. |  | n 12 | (see 5.2.3 and C.3.4) |  | 6 |  |
| Value amount cardholder billing fee | The cardholder billing fee amount in the indicated currency. |  | n 8 | (see 5.2.3 and C.3.6) |  | 8 |  |
| Value amount fee | The fee amount in the indicated currency. |  | n 8 | (see 5.2.3 and C.3.18) |  | 46 |  |
| Value amount net reconciliation | The net reconciliation amount in the indicated currency. |  | xn 17 | (see 5.2.3 and C.3.34) |  | 97 |  |
| Value amount reconciliation | The reconciliation amount in the indicated currency. |  | n 12 | (see 5.2.3 and C.3.3) |  | 5 |  |
| Value amount reconciliation fee | The reconciliation fee amount in the indicated currency. |  | n 8 | (see 5.2.3 and C.3.18) |  | 46 |  |
| Value amount transaction | The transaction amount in the indicated currency. |  | n 12 | (see 5.2.3 and C.3.2) |  | 4 |  |
| Value original amount fee | The original fee amount in the indicated currency. |  | n 8 | (see 5.2.3 and C.3.27) |  | 66 |  |
| Value original amount reconciliation | The original reconciliation amount in the indicated currency. |  | n 12 | (see 5.2.3 and C.3.12) |  | 30 |  |
| Value original amount reconciliation fee | The original reconciliation fee amount in the indicated currency. |  | n 8 | (see 5.2.3 and C.3.27) |  | 66 |  |
| Value original amount transaction | The original transaction amount in the indicated currency. |  | n 12 | (see 5.2.3 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. | | | | | | | |

**Specific requirements for data elements**

**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).

**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.

**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.

**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:

— 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.

**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 in5.2.5) 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.

**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.

**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.

**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) |

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**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 | – |

**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 |

**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 |

**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 |

**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 |

**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 |

**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 |

**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 |

**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

**Card acceptor name/location (bit 43)**

Card acceptor name/location is a composite data element (see 4.4.4) 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 | – |

**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. | | | | |

**Additional response data (bit 44)**

Additional response data is a composite data element (see 4.4.4) 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 | – |

**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 |

**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.

**Verification data (bit 49)**

Verification data is a composite data element (see 44.4.4) 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 | – |

**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 |

**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 |

**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.

**Customer-related data (bit 51)**

Customer-related data is a composite data element (see 4.4.4) 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 | 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 | – |

**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 |

**Contact information sub-elements**

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

**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 |

**Customer identification sub-elements**

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

**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 |

**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 |

**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 |

**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.

**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.

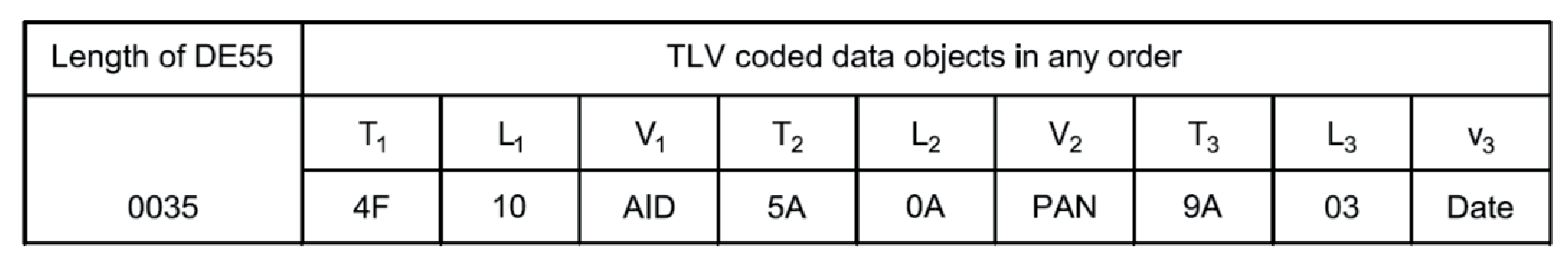
If the data pertains to more than one application, the data for each application shall be grouped together and shall be wrapped by a constructed data object for the length of the data for that application.

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.

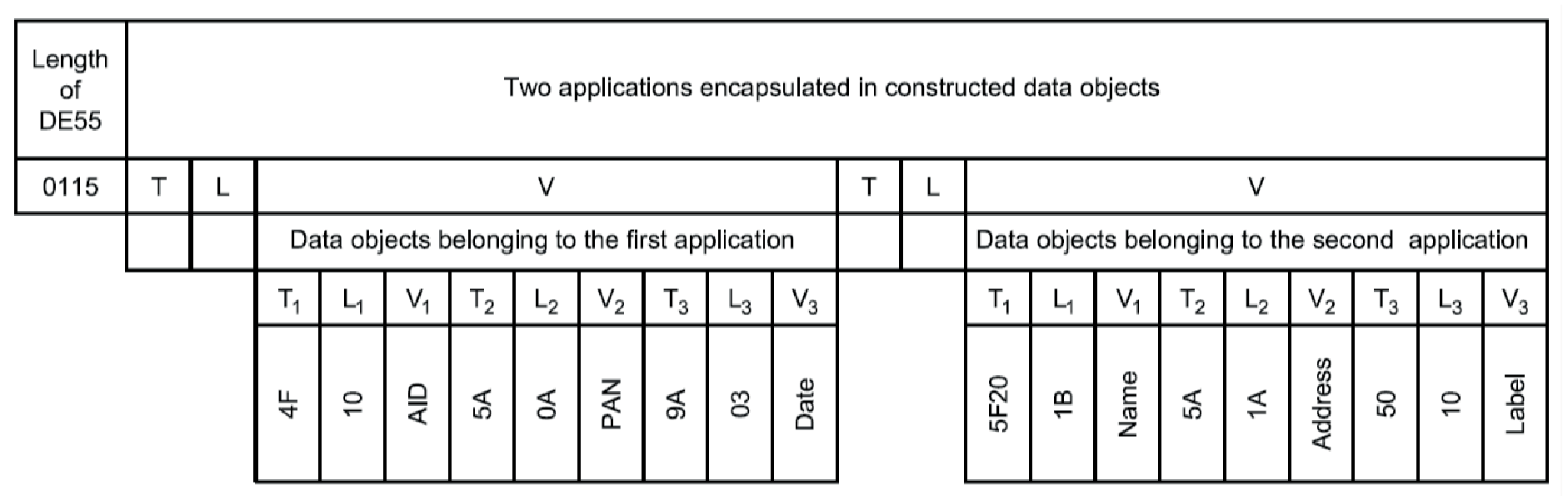
Figure C.1 shows how a typical ISO/IEC 7816-6-compliant single application can be constructed where there is no application constructed data wrapped around the application objects.

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.



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



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

**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.

**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.

**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.

**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.

**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.

**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.

**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.

**Additional transaction specific data (bit 71)**

Additional transaction specific data is a composite data element (see 4.4.4) 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 |
| Reserved for ISO use | 03-40 | 73-DF | – |
| Reserved for National use | 41-55 | E0-EF | – |
| Reserved for Private use | 56-70 | F0-FE | – |

**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 |

**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 |

**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).

**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.

**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.

**Transaction specific data (bit 104)**

Transaction specific data is a composite data element (see 4.4.4) 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.30 — 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 |
| Reserved for ISO use | 18-40 | 88-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. | | | |

**Sale header data**

Table C.31 contains summary-level information about the goods or services being purchased.

**Table C.31 — 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 |

**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.32.

**Table C.32 — Bit 104— Transaction specific data — Free-form description data — Dataset identifier 71**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dataset bit** | **Name** | **Format** | **Representation** |
| 1 | Continuation bit |  |  |
| 2 | Free-form description data | LLLVAR | ans..999 |

**Invoice header data**

Table C.33 contains summary level information of invoice data.

**Table C.33 — Bit 104— Transaction specific data — Invoice header data — Dataset identifier 72**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dataset bit** | **Name** | **Format** | **Representation** |
| 1 | Continuation bit |  |  |
| 2 | Invoice tax Indicator | 0 = Tax not included  1 = Tax included | n 1 |
| 3 | Invoice cardholder order reference number | LLVAR | an..22 |
| 4 | Invoice cardholder’s tax reference number | LLVAR | an..13 |
| 5 | Invoice card acceptor invoice reference number | LLVAR | an..12 |
| 6 | Invoice card acceptor tax reference number | LLVAR | an..20 |
| 7 | Invoice amount total tax |  | n 12 |
| 8 | Invoice amount bottom line discount |  | n 12 |
| 9 | Invoice destination postal code | LLVAR | an..10 |
| 10 | Invoice ship from postal code | LLVAR | an..10 |
| 11 | Invoice destination country code |  | an 3 |
| 12 | Invoice order date | CCYYMMDD | n 8 |
| 13 | Invoice amount freight including tax |  | n 12 |
| 14 | Invoice cost centre | LLVAR | a..20 |
| 15 | Invoice customer reference | LLVAR | ans..20 |
| 16 | Invoice card acceptor order number | LLVAR | an..15 |
| 17 | Continuation bit |  |  |
| 18 | Invoice value excluding tax |  | n 12 |
| 19 | Invoice original invoice number | LLVAR | an..15 |
| 20 | Invoice card acceptor customer reference number | LLVAR | an..17 |
| 21 | Invoice freight tax rate |  | n 4 |
| 22 | Invoice amount freight excluding tax |  | n 12 |
| 23 | Invoice card acceptor type |  | ans 4 |
| 24 | Invoice amount duty |  | n 12 |
| 25 | Continuation bit |  |  |
| 26 | Invoice destination state/province code |  | ans 3 |
| 27 | Invoice amount alternate tax |  | n 12 |
| 28 | Invoice amount alternate tax indicator | Y = yes N = no  Space = unknown | as 1 |
| 29 | Invoice alternate tax identifier |  | ans 15 |

**Invoice line item data**

Table C.34 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.34 — Bit 104— Transaction specific data — Invoice line item data — Dataset identifier 73**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dataset bit** | **Name** | **Format** | **Representation** |
| 1 | Continuation bit |  |  |
| 2 | Line item dataset sequence number |  | b 2 |
| 3 | Line item commodity code | LLVAR | an..16 |
| 4 | Line item product code | LLVAR | an..15 |
| 5 | Line item descriptor | LLVAR | an..40 |
| 6 | Line item unit of measure | LLVAR | a..12 |
| 7 | Line item unit price excluding tax | LLVAR | n..12 |
| 8 | Line item product quantity | LLVAR | n..12 |
| 9 | Line item amount discount |  | n 12 |
| 10 | Line item tax rate |  | n 5 |
| 11 | Line item value excluding tax |  | n 12 |
| 12 | Line item value including tax |  | n 12 |
| 13 | Line item amount tax |  | n 12 |
| 14 | Line item quantity minor unit |  | n 1 |
| 15 | Line item discount indicator | Y = yes N = no  Space = unknown | as 1 |
| 16 | Line item tax type |  | ans 4 |
| 17 | Continuation bit |  |  |
| 18 | Line item value debit/credit indicator | D = Debit C = Credit  Space = unknown | as 1 |
| 19 | Line item discount rate |  | ans 5 |

**Passenger transport itinerary data**

The data defined in Table C.35 and Table C.36 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.35 — Bit 104— Transaction specific data — Passenger transport itinerary data – 1 — Dataset identifier 74**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dataset bit** | **Name** | **Format** | **Representation** |
| 1 | Continuation bit |  |  |
| 2 | Airline ticket number | LLVAR | an..15 |
| 3 | Airline carrier name | LLVAR | an..19 |
| 4 | Airline travel agency code |  | an 8 |
| 5 | Airline ticket agency name | LLVAR | an..25 |
| 6 | Airline plan number |  | an 2 |
| 7 | Airline invoice number |  | an 6 |
| 8 | Airline original currency code |  | n 3 |
| 9 | Airline passenger name | LLVAR | ans..29 |
| 10 | Airline customer reference | LLVAR | ans.. 20 |
| 11 | Airline amount original invoice |  | n 12 |
| 12 | Airline ticket issue address | LLVAR | ans..16 |
| 13 | Airline date ticket issue | CCYYMMDD | n 8 |
| 14 | Airline amount total fare |  | n 12 |
| 15 | Airline amount total fees |  | n 12 |
| 16 | Airline amount total taxes |  | n 12 |
| 17 | Continuation bit |  |  |

**Passenger transport journey data**

**Table C.36 — Bit 104— Transaction specific data — Passenger transport journey data – 2 — Dataset identifier 75**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dataset bit** | **Name** | **Format** | **Representation** |
| 1 | Continuation bit |  |  |
| 2 | Trip leg dataset sequence number |  | b 2 |
| 3 | Trip leg number |  | n 2 |
| 4 | Trip leg departure airport |  | an 5 |
| 5 | Trip leg carrier code |  | an 2 |
| 6 | Trip leg fare basis code | LLVAR | an..15 |
| 7 | Trip leg class of travel |  | an 2 |
| 8 | Trip leg stop over code |  | an 1 |
| 9 | Trip leg destination code |  | an 5 |
| 10 | Trip leg date of travel | CCYYMMDD | n 8 |
| 11 | Trip leg amount departure tax |  | n 12 |
| 12 | Trip leg conjunction ticket number | LLVAR | an..15 |
| 13 | Trip leg exchange ticket number | LLVAR | an..15 |
| 14 | Trip leg coupon number |  | ans 1 |
| 15 | Trip leg flight number |  | ans 5 |
| 16 | Trip leg departure time |  | n 4 |
| 17 | Continuation bit |  |  |
| 18 | Trip leg departure time segment code | A = a.m.  P = p.m.  Space = unknown | as 1 |
| 19 | Trip leg arrival time |  | n 4 |
| 20 | Trip leg arrival time segment code | A = a.m.  P = p.m.  Space = unknown | as 1 |
| 21 | Trip leg amount fare |  | n 12 |
| 22 | Trip leg amount fees |  | n 12 |
| 23 | Trip leg amount taxes |  | n 12 |
| 24 | Trip leg endorsements/restrictions | LLVAR | ans..20 |
| 25 | Continuation bit |  |  |

**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 bit** | **Name** | **Format** | **Representation** |
| 1 | Continuation bit |  |  |
| 2 | Auto rental address | LLVAR | ans..26 |
| 3 | Auto rental date | CCYYMMDD | n 8 |
| 4 | Auto rental time | HHMM | n 4 |
| 5 | Auto return address | LLVAR | ans..26 |
| 6 | Auto return date | CCYYMMDD | n 8 |
| 7 | Auto return time | HHMM | n 4 |
| 8 | Auto rental distance |  | n 5 |
| 9 | Auto distance unit of measure | K = kilometres M = miles | a 1 |
| 10 | Auto rental agreement reference | LLVAR | ans..25 |
| 11 | Auto vehicle registration number |  | an 17 |
| 12 | Auto odometer reading |  | n 8 |
| 13 | Auto renter name | LLVAR | ans..29 |
| 14 | Auto return city | LLVAR | ans..18 |
| 15 | Auto return state/province |  | ans 3 |
| 16 | Auto return country |  | ans 3 |
| 17 | Continuation bit |  |  |
| 18 | Auto return location identifier |  | ans 10 |
| 19 | Auto customer service toll-free phone number |  | ans 16 |
| 20 | Auto rental rate |  | n 12 |
| 21 | Auto rental rate time period | D = daily  W = weekly M = monthly Space = unknown | as 1 |
| 22 | Auto maximum free miles/kilometres |  | n 4 |
| 23 | Auto amount vehicle insurance |  | n 12 |
| 24 | Auto vehicle insurance indicator | Y = yes N = No | as 1 |
|  |  | Space = unknown |  |
| 25 | Continuation bit |  |  |
| 26 | Auto amount adjusted |  | n 12 |
| 27 | Auto amount adjusted indicator code |  | as 1 |
| 28 | Auto program code |  | ans 2 |
| 29 | Auto rental city | LLVAR | ans..18 |
| 30 | Auto rental state/province |  | ans 3 |
| 31 | Auto rental country |  | ans 3 |
| 32 | Auto rental location identifier |  | ans 10 |
| 33 | Continuation bit |  |  |
| 34 | Auto rental class identifier |  | ans 4 |

**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 bit** | **Name** | **Format** | **Representation** |
| 1 | Continuation bit |  |  |
| 2 | Lodging customer service toll-free phone number |  | ans 16 |
| 3 | Lodging date arrival | CCYYMMDD | n 8 |
| 4 | Lodging date departure | CCYYMMDD | n 8 |
| 5 | Lodging folio number |  | ans 10 |
| 6 | Lodging facility phone number |  | ans 16 |
| 7 | Lodging amount billing adjustment |  | n 12 |
| 8 | Lodging amount room rate |  | n 12 |
| 9 | Lodging amount room tax |  | n 12 |
| 10 | Lodging program code |  | ans 2 |
| 11 | Lodging amount phone charges |  | n 12 |
| 12 | Lodging amount restaurant/room service |  | n 12 |
| 13 | Lodging amount bar/mini-bar |  | n 12 |
| 14 | Lodging amount laundry/dry cleaning |  | n 12 |
| 15 | Lodging amount other services |  | n 12 |
| 16 | Lodging amount other services indicator |  | ans 3 |
| 17 | Continuation bit |  |  |
| 18 | Lodging amount gift shop |  | n 12 |

**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.

**Table C.39 — Bit 104— Transaction specific data — Fleet card data — Dataset identifier 78**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dataset bit** | **Name** | **Format** | **Representation** |
| 1 | Continuation bit |  |  |
| 2 | Fleet motor fuel oil company brand name |  | n 4 |
| 3 | Fleet motor fuel service type code |  | ans 1 |
| 4 | Fleet product code | LLVAR | an..15 |
| 5 | Fleet unit price excluding tax |  | n 12 |
| 6 | Fleet unit price including tax |  | n 12 |
| 7 | Fleet unit of measure | LLVAR | ans..12 |
| 8 | Fleet product quantity | LLVAR | n..12 |
| 9 | Fleet quantity minor unit |  | n 1 |
| 10 | Fleet line item value excluding tax |  | n 12 |
| 11 | Fleet line item value including tax |  | n 12 |
| 12 | Fleet odometer reading |  | n 8 |
| 13 | Fleet vehicle registration number |  | an 17 |
| 14 | Fleet driver number/other identification number | LLVAR | n..17 |
| 15 | Fleet motor fuel prompt code |  | n 1 |
| 16 | Fleet amount bottom line discount |  | n 12 |
| 17 | Continuation bit |  |  |
| 18 | Fleet amount total tax |  | n 12 |

**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 |

**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).

**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.