

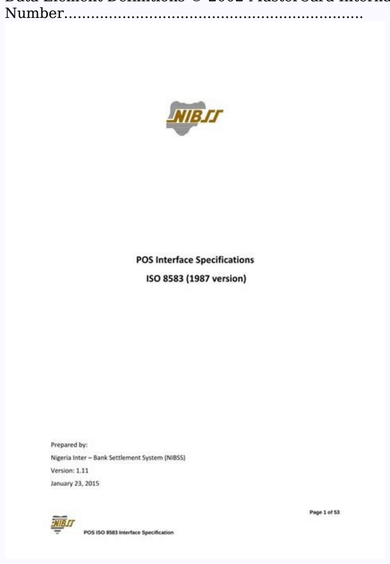
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Customer care +41 22 749 08 88 Opening hours: Monday to Friday - 09:00-12:00, 14:00-17:00 (UTC+1) Page 1 © 2002 MasterCard International Incorporated MasterCard® Debit Switch Online Specifications • June 2002 4-i 4444 ISO 8583–1987 Data Element Definitions This section provides a detailed definition of all data elements used within ISO 8583–1987 online financial institution card (bank card) messages.
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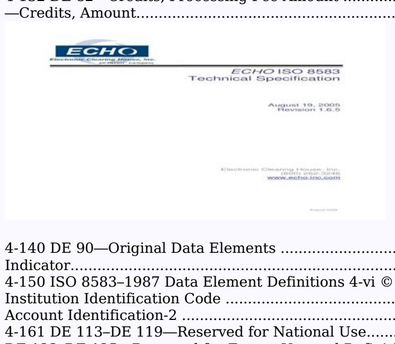
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Summary list of all ISO 8583–1987 data elements in the order of their ISO- assigned bit map numbers, including annotation of those data elements which are currently not implemented within the ISO 8583–1987 specification. 3. Detailed definition of each message data element, presented in the order of the data element bit map number. Information provided for each data element includes the following: − Data element definition − Data element usage − Data element formats, including data representation attributes, data field format, and data field length − Data element values or field edits indicating the specific value(s) or permissible range of values that may be present within the data element − Product application notes, where applicable, that detail unique, product-specific, or message-specific usage of the data element ISO 8583–1987 Data Element Definitions Annotation Conventions for Data Element Attributes 4-2 © 2002 MasterCard International Incorporated June 2002 • MasterCard® Debit Switch Online Specifications Annotation Conventions for Data Element Attributes The following notation conventions are used throughout this section to describe the attributes of ISO 8583–1987 message data elements: Conventions for Data Representation The data encoding conventions listed below have been adapted for all ISO 8583–1987 messages: • The system aligns all message data element fields on byte boundaries; such as a data field cannot begin with the low order “nibble” or any bit other than the high-order bit of any byte. • All of the following data types are encoded for transmission between the MDS and processor systems using EBCDIC display character representation: • All numeric (attribute n) data elements are right justified with leading zeroes unless otherwise specified in the individual data element definitions. All other data elements are left justified with trailing blanks unless otherwise specified. • All binary (attribute b) data elements are constructed of bit-strings which have lengths that are an integral number of 8-bit bytes. No binary data element has a length of less than eight bits (one byte). • All track-2 or track-3 (attribute z) data elements are encoded as EBCDIC representations of the hexadecimal data specified in ISO specification 7811 and 7812. Thus, a hex “D” (binary “1101”) is encoded as an EBCDIC “D” character, and so on. The LLVAR or LLLVAR length specification associated with these data elements specifies the field length in number of bytes.
• The system encodes all length subfields as numeric EBCDIC, right justified with leading zeroes. − Fields designated LL are 2-character numeric subfields with values from “01” to “99”. − Fields designated LLL are 3-character numeric subfields with values from “001” to “999”. ISO 8583–1987 Data Element Definitions Annotation Conventions for Data Element Attributes © 2002 MasterCard International Incorporated MasterCard® Debit Switch Online Specifications • June 2002 4-3 General Representation Table 4.1—Data Representation Attributes Notation Description a alphabetic characters only (MUST USE UPPERCASE LETTERS) a n numeric characters only s special characters only an alpha and numeric characters as alpha and special characters ns numeric and special characters ans alpha, numeric, and special characters b binary data z magnetic stripe track-2 or track-3 data x character “C” or “D” to indicate “credit” or “debit” value of a dollar amount a The MDS application requires use of uppercase letters in data specifying state and country codes.
Thus, safe, general practice is to code alpha data as uppercase. ISO 8583–1987 Data Element Definitions Annotation Conventions for Data Element Attributes 4-4 © 2002 MasterCard International Incorporated June 2002 • MasterCard® Debit Switch Online Specifications Length Attributes Table 4.2—Data Length Attributes Notation Description - digit(s) Fixed length in number of positions. Example: “n-3” indicates a 3-position numeric field. Example: “an-10” indicates a 10-position alphanumeric field. 74410132064.pdf digit(s) Variable length field, with maximum number of positions specified. Example: “n...11” indicates a variable length numeric field of up to 11 digits. Example: “an...25” indicates a variable length alphanumeric field of up to 25 characters. LLVAR When present with a variable length field specification, this indicates that the data element contains two subfields: LL indicates the number of positions in the variable-length data field that follows. Length may be 1 to 99, unless otherwise restricted. guia de tuberculosis minsa pdf VAR is the variable length data field. Example: “an...25, LLVAR” indicates a variable-length alphanumeric data field having a length of up to 25 characters.
LLLVAR When present with a variable length field specification, this indicates that the data element contains two subfields: LLL indicates the number of positions in the variable-length data field that follows. Length may be 1 to 999, unless otherwise restricted. VAR is the variable length data field. Example: “an...500, LLLVAR” indicates a variable-length alphanumeric data field having a length of up to 500 characters. ISO 8583–1987 Data Element Definitions Annotation Conventions for Data Element Attributes © 2002 MasterCard International Incorporated MasterCard® Debit Switch Online Specifications • June 2002 4-5 Field Content Attributes Table 4.3—Data and Time Attributes Notation Description MM month (two digits, 01–12) DD day (two digits, 01–31) YY year (last two digits of calendar year, 00–99) hh hour (two digits, 00–23) mm minute (two digits, 00–59) ss second (two digits, 00–59) ISO 8583–1987 Data Element Definitions Message Data Elements 4-6 © 2002 MasterCard International Incorporated June 2002 • MasterCard® Debit Switch Online Specifications Message Data Elements Table 4.4 lists all data elements implemented within the ISO 8583–1987 message standard. Where indicated, some data elements are not currently used. ISO 8583–1987 messages should not contain these data elements. Table 4.4—ISO 8583–1987 Message Standard Data Elements Number Name Attributes 1 Bit map, Secondary b-64 2 Primary Account Number n...19; LLVAR 3 Processing Code n-6 4 Amount, Transaction n-12 5 Amount, Settlement n-12 6 Amount, Cardholder Billing n-12 7 Transmission Date and Time n-10; MMDDhhmmss 8 Amount, Cardholder Billing Fee (not currently used) n-8 9 Conversion Rate, Settlement n-8 10 Conversion Rate, Cardholder Billing n-8 11 System Trace Audit Number n-6 12 Time, Local Transaction n-6; hhmmss 13 Date, Local Transaction n-4; MMDD 14 Date, Expiration n-4; YYMM 15 Date, Settlement n-4; MMDD 16 Date, Conversion n-4; MMDD 17 Date, Capture (not currently used) n-4; MMDD 18 Merchant Type (MCC) n-4 19 Acquiring Institution Country Code (not currently used) n-3 20 Primary Account Number, Extended, Country Code (not currently used) n-3 21 Forwarding Institution Country Code (not currently used) n-3 22 Point of Service Entry Mode n-3 ISO 8583–1987 Data Element Definitions Message Data Elements © 2002 MasterCard International Incorporated MasterCard® Debit Switch Online Specifications • June 2002 4-7 Number Name Attributes 23 Card Sequence Number n-3 24 Network International Identifier (not currently used) n-3 25 Point of Service Condition Code (not currently used) n-2 26 Point of Service PIN Capture Code n-2 27 Authorization Identification Response Length (not currently used) n-1 28 Amount, Transaction Fee x+n-8 29 Amount, Settlement Fee x+n-8 30 Amount, Transaction Processing Fee (not currently used) x+n-8 31 Amount, Settlement Processing Fee x+n-8 32 Acquiring Institution Identification Code n...11; LLVAR 33 Forwarding Institution Identification Code n...11; LLVAR 34 Primary Account Number, Extended (not currently used) ns...28; LLVAR 35 Track-2 Data z...37; LLVAR 36 Track-3 Data (not currently used) z...104; LLLVAR 37 Retrieval Reference Number an-12 38 Authorization Identification Response an-6 39 Response Code an-2 40 Service Restriction Code (not currently used) an-3 41 Card Acceptor Terminal Identification ans-8 42 Card Acceptor Identification Code ans-15 43 Card Acceptor Name/Location ans-40 44 Additional Response Data ans...25; LLVAR 45 Track-1 Data ans...79; LLVAR 46 Additional Data (ISO) (not currently used) ans...999; LLLVAR 47 Additional Data (National) (not currently used) ans...999; LLLVAR 48 Additional Data (Private/ISO 8583–1987) ans...999; LLLVAR 49

Currency Code, Transaction n-3 ISO 8583–1987 Data Element Definitions Message Data Elements 4-8 © 2002 MasterCard International Incorporated June 2002 • MasterCard® Debit Switch Online Specifications Number Name Attributes 50 Currency Code, Settlement n-3 51 Currency Code, Cardholder Billing n-3 52 Personal Identification Number (PIN) Data b-64 53 Security Related Control Information (not currently used) n-16 54 Additional Amounts an...120; LLLVAR 55 Integrated Circuit Card (ICC) System Related Data b...255; LLLVAR 56 Reserved (ISO) (not currently used) ans...999; LLLVAR 57–59 Reserved (National) (not currently used) ans...999; LLLVAR 60 Advice Reason Code ans...060; LLLVAR 61 Point of Service (POS) Data ans...026; LLLVAR 62 Intermediate Network Facility (INF) Data ans...050; LLLVAR 63 Network Data ans...044; LLLVAR 64 Message Authentication Code (MAC) (not currently used) b-64 65 Bit map, Extended (not currently used) b-64 66 Settlement Code n-1 67 Extended Payment Code (not currently used) n-2 68 Receiving Institution Country Code (not currently used) n-3 69 Settlement Institution Country Code (not currently used) n-3 70 Network Management Information Code n-3 71 Message Number (not currently used) n-4 72 Message Number Last (not currently used) n-4 73 Date, Action (not currently used) n-6; YYMMDD 74 Credits, Number n-10 75 Credits, Reversal Number n-10 76 Debits, Number n-10 77 Debits, Reversal Number n-10 78 Transfers, Number n-10 79 Transfers, Reversal Number n-10 ISO 8583–1987 Data Element Definitions Message Data Elements © 2002 MasterCard International Incorporated MasterCard® Debit Switch Online Specifications • June 2002 4-9 Number Name Attributes 80 Inquiries, Number n-10 81 Authorizations, Number n-10 82 Credits, Processing Fee Amount n-12 83 Credits, Transaction Fee Amount n-12 84 Debits, Processing Fee Amount n-12 85 Debits, Transaction Fee Amount n-12 86 Credits, Amount n-16 87 Credits, Reversal Amount n-16 88 Debits, Amount n-16 89 Debits, Reversal Amount n-16 90 Original Data Elements n-42 91 File Update Code an-1 92 File Security Code (not currently used) an-2 93 Response Indicator (not currently used) an-5 94 Service Indicator (not currently used) an-7 95 Replacement Amount n-42 96 Message Security Code (not currently used) b-64 97 Amount, Net Settlement x+n-16 98 Payee (not currently used) ans-25 99 Settlement Institution Identification Code n...11; LLVAR 100 Receiving Institution Identification Code n...11; LLVAR 101 File Name ans...17; LLVAR 102 Account Identification-1 ans...28; LLVAR 103 Account Identification-2 ans...28; LLVAR 104 Transaction Description (not currently used) ans...100; LLLVAR 105–111 Reserved for ISO use (not currently used) ans...999; LLLVAR 112 Parcelas Data ans...248; LLLVAR 113–119 Reserved for National use (not currently used) ans...999; LLLVAR 120 Record Data ans...999; LLLVAR 121 Authorizing Agent Identification Code (not currently used) ans...011; LLLVAR Customer care +41 22 749 08 88 Opening hours: Monday to Friday - 09:00-12:00, 14:00-17:00 (UTC+1)