

DTA

Standards and Formats

A joint service provided by the Swiss banks

Information

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Amendment control

All significant amendments carried out on this document are listed below, with the date of the amendment, a brief amendment description and a statement of the section concerned.

Date	Version	Amendment description	Section/appendix
January 2006	1.0	First edition	all
13.11.2006	2.0	Amounts under examples adjusted to reflect current practice (left-aligned, completed with blanks on right).	3.6.3
		"ma" added to segment fields and reserve fields in the third column. In magnetic tape format, "51x" added to Header. Amounts given as examples in Field 32A: left-aligned with blanks on the right.	4 (generally)
		Field 32A: Addition re. "max. 2 places after the comma".	4.2, 4.3
		Field 59: Addition of "with no dashes" for 9-digit PC account and example line 4 completed with blanks.	4.3
		Field 57A: or 57D: Details re. automatic cession for Non-CH or Non-LI IBAN. Field 58: New example = CH-IBAN.	4.6
		Various validation rules deleted as they are no longer relevant. Various amendments to error messages and actions.	5
01.03.2007	3.0	TA 830, Field 57 A: The 2nd line must contain, for domestic payments, the BC number, and for cross-border payments the 8- or 11-character BIC address (=SWIFT address) of the beneficiary's institution.	2.2.3, 4.4
		TA 836, Field 70 stated more precisely	4.6
		New transaction type TA 837 (payments to financial institutions in Switzerland and abroad, in all currencies)	2.1, 2.2.6, 3.4, 4.1, 4.4, 4.7, 5
01.05.2007	3.1	TA 830 and TA 837, Field 57 A: The 2nd line must contain the 8- or 11-character BIC address (=SWIFT address) of the beneficiary's institution.	2.2.3, 2.2.6, 4.4, 4.7
01.09.2007	3.2	TA 837 number of lines in Field 57x and title in Field 72x	4.7
21.08.2008	3.3	Renaming of Swiss Interbank Clearing into SIX Interbank Clearing	generally
14.11.2008	3.4	Change of character set: lower case letters are no longer changed into upper case letters. Invalid characters are changed into "." (full-stop) instead of "Blank".	3.7, 7.1, 7.2
01.08.2009	3.5	More precise statements.	3.2, 3.6.3, 4.4, 4.6, 4.7, 5
01.06.2011	3.6	Examples of payment slips updated	6

Description of amendments

The previous amendments from the preceding version are marked in the document using the track changes facility, to the extent that these amendments are meaningful. Layout amendments, corrections of spelling mistakes and altered terms that are repeated several times throughout the entire document, are not marked. Older amendments from other versions should be removed from the amendment control.

The amendments are marked in the document with a blue line in the margin.

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1 Introduction

1.1 Basic principles

The Swiss banks offer their customers to transmit payments over electronic channels **in a standardized DTA format**

as a means of executing payments quickly, safely and paperless.

Banking clients who have a computer system at their disposal, or who are connected to a data processing system, can take advantage of payments in DTA format.

IT manufacturers and software vendors provide standard software for entering and transmitting payment data.

Payments in DTA format are sent to the bank by use of electronic data transmission via a secure Internet channel. The sending of physical data carriers (diskettes and magnetic tapes) are not allowed.

1.2 Direct/indirect transmission

The DTA format is designed in such a way that a single data file is sufficient to electronically transmit different types of payments in Swiss francs and foreign exchange.

Normally the payments are transmitted **directly** to the ordering bank by e-banking.

Alternatively an **indirect** transmission to SIX Interbank Clearing is possible but only after arrangement with the bank. For this kind of transmission the instruction "Payment transmission in DTA format to SIX Interbank Clearing" applies in addition.

1.3 Payment date

The processing is only possible on a bank business day. The general rules issued by the ordering bank apply for a processing in time.

1.4 Responsibility

The ordering party is responsible for the contents of the data file and also for adopting measures to counter misuse.

1.5 Input validation

Prior to processing the DTA payment data undergo a variety of validation checks (see section 5 "DTA validation rules").

The sender is informed as soon as possible about any detected errors, so that corrections can be made immediately.

1.6 Bank clearing register

As a service, SIX Interbank Clearing provides a list of BC numbers and bank master data containing all details of the financial institutions and their branches in the form of a downloadable file. This file contains all necessary information about the financial institutions and its branches. Further information can be obtained via the homepage www.six-interbank-clearing.com of SIX Interbank Clearing.

1.7 Legal requirements

Previous to transmitting payments in DTA format a bank individual agreement has to be concluded between the ordering party and his bank.

2 Payment options

2.1 Overview of the transaction types

DTA supports the following types of transactions (TA):

TA Definition

- | | |
|-----|---|
| 826 | ISR payments (orange payment slips with reference number) |
| 827 | Domestic CHF payments (bank and postal account payments and postal orders)
<i>(postal orders are not accepted by all banks; see section 2.2.4)</i> |
| 830 | Payments to financial institutions abroad in CHF and foreign exchange (FX) as well as domestic foreign exchange payments |
| 832 | Bank cheques in CHF and foreign exchange (FX)
<i>(not accepted by all banks; see section 2.2.4)</i> |
| 836 | Payments with an IBAN (International Bank Account Number) in Switzerland and abroad, in all currencies |
| 837 | Payments to financial institutions in Switzerland and abroad, in all currencies
<i>(only use this type of transaction after consulting the bank to be instructed; see section 2.2.6)</i> |
| 890 | Total record |

By using TA 827, 836 and 837 also **salary and pension payments** can be transmitted. These payments specify this in the header (payment type field = 1).

2.2 Description of the transaction types (TA)

2.2.1 TA 826, ISR payments

This type of transaction allows to enter **orange payments slips** (ISR and ISR⁺ slips) for submission to the bank. ISR slips display pre-printed details of the amount whilst ISR⁺ slips do not have the amount pre-printed.

A specimen of slip can be found in section 6.1.

2.2.2 TA 827, domestic CHF payments (bank and postal account payments and postal orders)

This type of transaction is used to execute the following **domestic CHF payments** which, as a rule, are debited to a CHF account with the ordering party's:

- Payments for transmission to the account of a beneficiary of a clearing bank (bank clearing payments)
- Payments for transmission to a beneficiary's postal account or by postal order (cash to the beneficiary)

Remark: Some banks refuse to accept orders for transmission by postal orders via DTA transaction TA 827.

Specimens of slips can be found in section 6.2.

2.2.3 TA 830, payments to financial institutions abroad in CHF and FX as well as domestic FX payments

This type of transaction is used to make payments in **CHF or FX to customers of banks abroad**, and **FX payments to customers of domestic banks**.

The payments can be debited either to a CHF or foreign currency account with the customer's bank.

For the financial institution of the beneficiary, either the full postal address or the SWIFT address can be entered. SWIFT addresses can be obtained from the financial institution if required.

2.2.4 TA 832, bank cheques in CHF and FX

This involves instructions to the ordering party's bank to issue the beneficiary with a **bank cheque** for the payment amount in question to be debited to a CHF or foreign currency account.

As a general rule or if, for example, the mailing address of the beneficiary is incomplete, the ordering party's bank is at liberty to send the cheques to the ordering party without prior notification.

Remark: Some banks refuse to accept orders for cheques via DTA transaction TA 832. If necessary, approval may have to be requested in advance from the ordering party's bank.

2.2.5 TA 836, payments with an IBAN in Switzerland and abroad, in all currencies

This type of transaction can only be used if the beneficiary's **account number** corresponds to the **IBAN standard** for the country concerned.

With the help of an IBAN it is possible to unequivocally determine the country, bank or postal account and the beneficiary. Visit the SIX Interbank Clearing web site www.six-interbank-clearing.com ⇒ [Standardization](#) to obtain further details about IBAN.

Specimens and slips with IBAN can be found in section 6.2.

2.2.6 TA 837, payments to financial institutions in Switzerland and abroad, in all currencies

Remark: In order to use TA 837, there has to be a bilateral agreement with the bank being instructed, because this type of transaction is not necessarily supported by all banks.

This type of transaction can be used to send payments in **all currencies to the customers of financial institutions in Switzerland and abroad**.

The payments can be charged to a CHF or foreign currency account at the customer's bank.

The **account number** of the beneficiary can also be entered as an **IBAN**.

For the financial institution of the beneficiary, either the full postal address or the SWIFT address can be entered. SWIFT addresses can be obtained from the financial institution if required.

2.2.7**TA 890, total record**

TA 890 is only generated once for a data file and must be displayed as the final record. It contains the total for all submitted payments.

3 Technical provisions

3.1 Break down of the records

DTA format is a matter of standard records. Each individual payment must be accompanied by an independent record. A record comprises two parts, namely a HEADER and TEXT.

3.2 Sorting

The records are to be sorted in ascending order based on the following fields:

- Requested processing date
- Ordering party identification (field identification 20:, pos. 1 to 5)
- Bank clearing no. of the beneficiary bank

Following the final payment a total record (see section 2.2.7 "TA 890, total record") has to be indicated.

3.3 Format acceptance

Most banks accept payments in DTA format from their customers only in fixed format (diskettes). In case of remitting variable format (magnetic tape format) by a customer a previous acceptance by his bank is necessary.

3.4 Fixed format (diskettes)

In contrast to the variable format (magnetic tapes) a payment embraces several segments, except for the total record:

- Transaction type 826 3 segments
- Transaction type 827 3 to 5 segments (segments 4 and 5 optional)
- Transaction type 830 4 to 6 segments (segments 5 and 6 optional)
- Transaction type 832 3 to 5 segments (segments 4 and 5 optional)
- Transaction type 836 5 segments
- Transaction type 837 4 to 7 segments (segments 5, 6 and 7 optional)
- Transaction type 890 1 segment

The fixed format has a fixed length of 128 characters per segment.

Each segment is terminated by an end-sector mark (ASCII: "CRLF"; HEX: "0D0A").

Layout and content of the individual header fields and the message texts are described in section 4 "Record descriptions". It is also indicated whether the fields of transaction types are mandatory (ma) or optional (op). "op" means in the fixed format that "blanks" = **BBB** must be filled in instead of the field content.

3.5 Variable format (magnetic tape)

3.5.1 Variable text format

For the text, a maximum length is specified for each field. Each text field, therefore, requires a field identifier. This identifier comprises either two digits (nn) or three alphanumerical characters (nnx). The maximum field length is excluding the field identifier and the delimiter. The fields within the text are to be specified according to the field identifiers in ascending order.

3.5.2 Field separators

The start and end of a record (payment) as well as the division between header and text is indicated by the following characters:

SOH	Start of record	} = 1 record
HEADER		
CRLF+	Start of text	
TEXT		
CRLF-	End of text	
ETX	End of record	

A differentiation between the following characters is made within the text:

CRLF New line for the same field (e.g. between the 1st and 2nd address line)

CRLF: Field separator (e.g. the reference number)

Id. Rec. *	EBCDIC	Binary Code	Hexadecimal
FS1	SOH	0000 0001	01
FS2	CRLF+	0000 1101 0010 0101 0100 1110	0D 25 4E
FS3	CRLF:	0000 1101 0010 0101 0111 1010	0D 25 7A
FS4	CRLF-	0000 1101 0010 0101 0110 0000	0D 25 60
FS5	ETX	0000 0011	03
TAG	:	0111 1010	7A
CS2	CRLF	0000 1101 0010 0101	0D 25

* Identifiers in an "ideal record"

SOH = start of header

CRLF+ = carriage return (CR), line feed (LF), plus (+)

CRLF = carriage return (CR), line feed (LF),
colon (:) = field separator

CRLF- = carriage return (CR), line feed (LF), minus (-)

ETX = end of text

:

= 2- or 3-digit field identifiers plus colon (:)

CRLF = carriage return (CR), line feed (LF)

3.5.3 Record structure

SOH 1	HEADER 2	CRLF+ 3	20 4	: 5	MUS0112345678901 6	CRLF: 7		
25 4	: 5	10235678 6	CRLF: 7	.....	.....	CRLF: 7	50 4	: 5
MUSTER AG 11	CRLF 10	BAHNHOFPLATZ 17 12			CRLF 10	POSTFACH 8099 13		
CRLF 10	8000 ZUERICH 14		CRLF: 7	.....	.....	CRLF- 15	ETX 16	

- 1 Start of the record
- 2 Header
- 3 Start of the text
- 4 Field identifier
- 5 Separator between field identifier and field contents
- 6 Field contents
- 7 Field separator
-
-
- 10 New line
- 11 Address line 1
- 12 Address line 2
- 13 Address line 3
- 14 Address line 4
- 15 End of text
- 16 End of record

Structure, description as well as the maximum length of the individual text fields can be seen in the record description tables (see section 4). Furthermore, it is stated whether the field is mandatory (ma) or optional (op) for a particular type of transaction.

3.6 Structure of the individual fields

3.6.1 Addresses

If an account number is permitted in an address field, it must be prefixed by "/C/".

Addresses comprise at least two lines

- Line 1: Surname/first name
- Line 2: Postcode/place

A maximum of four address lines is permitted.

3.6.2 Date

All date fields must conform to the format YYMMDD (year, month, day).

Examples:

21 September 2011 = 110921

4 December 2011 = 111204

3.6.3 Amount and conversion rate

Format = nn....,nn

The comma (used in place of the English-language decimal point) must be included. The comma must be taken into account when calculating the maximum length of this field.

Examples:

Amount	Fixed format	Variable format
CHF 2	2,00BBBBBBBBB or 2,BBBBBBBBBB	2,00 or 2,
CHF 0.15	0,15BBBBBBBBB	0,15
EUR 123.40	123,40BBBBBBB or 123,4BBBBBBB	123,4

Conversion rate	Fixed format	Variable format
1.5196	1,5196BBBBBBB	1,5196
0.96425	0,96425BBBBBB	0,96425

3.6.4 Currency code

Format = 3x

The 3-digit ISO/SWIFT currency codes can be found in www.iso.org.

3.7 Permitted characters

All permitted characters and symbols both in ASCII format (ISO Latincode 8859-1) and in EBCDIC format are specified in separate table lists in section 7.1 and 7.2. Control characters and individual special characters will be converted after submission into other characters or "." (full stop).

4 Record descriptions

Table legend:

The following tables contain indications and abbreviations as follows:

Field ID:	nn	=	numerical field number (e.g. 20:)
	nnx	=	alphanumeric field number (e.g. 32A:)

Abbreviations:	ma	=	mandatory
	op	=	optional

Designation of field length:	n	=	numerical
	2n	=	2 numerical positions
	x	=	alphanumeric
	16x	=	16 alphanumeric positions
	nn * nnx	=	Number of lines with number of characters (alphanumeric)

Examples:	BBB	=	"Blanks" (Spaces)
-----------	-----	---	-------------------

The column "Field ID" in the following tables is only relevant in the variable format (magnetic tape).

In the fixed format (diskettes) the "Field ID" does not exist.

4.1 Header structure

The structure of the header is identical for fixed and variable formats and for all transaction types. It has a fixed length and therefore no Field ID does exist for the variable format. For each transaction a header is mandatory.

Field ID	Field description		Description	Picture fixed length	Examples fixed format
--	Requested processing date	ma	<p>This field must be completed with the requested processing date for TA 826 and TA 827:</p> <ul style="list-style-type: none"> max. 60 calendar days following date of delivery max. 10 calendar days prior to date of delivery <p>Enter zeros for other types of transaction, as the value-date is mentioned in field 32A.</p>	6n	051021 (YYMMDD) or 000000 (zeros)
--	Bank clearing no. of the beneficiary's bank	ma	<p>TA 827 bank payments</p> <p>For TA 827, this field must contain the bank clearing no. of the beneficiary's bank if payment is made to a clearing bank.</p> <p>BC number (format) <i>entered manually:</i> The BC no. is to be entered flush left without punctuation. Remaining positions of the field contain blanks. <i>optical reading:</i> If the slip is subjected to an optical reader it must display the following format:</p> <p>Pos. 1 and 2 = 07 Pos. 3 to 7 = BC no. Pos. 8 = Check digit for the BC no. Pos. 9 = Check digit for the complete field Pos. 10 to 12 = "blanks"</p>	12x	99999BBBBBBB 9999BBBBBBBBB 999BBBBBBBBBB BBBBBBBBBBBBB 070888845BBB

Field ID	Field description		Description	Picture fixed length	Examples fixed format
			TA 827 postal payments For payments made to a postal account or for postal orders instructions (TA 827 too), this field must remain blanks. Other transaction types For all other transaction types (TA 826, 830, 832, 836, 837, 890), this field must remain blanks.		BBBBBBBBBBBBBB
--	Output sequence number	ma	Required for processing within the bank and is to be completed with zeros by the sender.	5n	00000 (5 zeros)
--	Creation date	ma	Date when data file was created. Must be the same for all data records. <ul style="list-style-type: none"> max. greater/less than 90 calendar days as the date of delivery. 	6n	021018 (YYMMDD)
--	Bank clearing no. of the ordering party's bank	ma	Bank clearing no. of the ordering party's bank (flush left, remainder of field completed with blanks). For TA 890 (Total record), this field must be completed with blanks. The BC no. is to be entered without punctuation.	7x	99999BB 9999BBB 999BBBB BBBBBBBB
--	Data file sender identification	ma	Identification must be included as a means of identifying the sender of the data file. The same identification must be included for all records.	5x	ABC12
--	Entry sequence number	ma	All records for each data file must be numbered sequentially starting with 00001.	5n	00023
--	Transaction type	ma	Record transaction type (see section 2.1)	3n	827
--	Payment type	ma	Indicate salary and pension payments TA 827, 836 and 837 with code 1. Enter code 0 for all other payments including pension payments.	1n	1 or 0 (zero)
--	Processing flag	ma	Required for processing within the bank and is to be completed with zeros by the sender.	1n	0 (zero)
total				51x	

4.2 TA 826, ISR payments

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 01
		ma		51x	51x	Header see section 4.1
20:	Reference no.	ma	This field is divided into: <ul style="list-style-type: none"> first 5 characters: ordering party identification remaining 11 characters: transaction no. defined by the ordering party; must be unique within a data file. 	16x	16x	ABC0100123478901
25:	Account to be debited	ma	<p>Without IBAN</p> <p>Contains the number of the account to be debited at the ordering party's bank:</p> <ul style="list-style-type: none"> max. 16-digit account no. (structure as defined by the bank); remaining positions must contain blanks <p>With IBAN</p> <p>Only to be used in agreement with the bank.</p> <p>Format:</p> <p>The blanks are to be omitted within the IBAN</p> <p>Pos. 1 and 2 = Country code (= CH or LI)</p> <p>Pos. 3 and 4 = Check digit for the complete field</p> <p>Pos. 5 to 9 = BC number; must concur with the ordering party's BC no.</p> <p>Pos. 10 to 21 = Bank account number</p> <p>Pos. 22 to 24 = blanks</p>	24x	24x	<p>10235678BBBBBBBBBBBBBBBBBB</p> <p>CH9300762011623852957BBB</p>

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
32A:	Payment amount	ma	<p>The amount is displayed according to SWIFT standards. All three sub-fields must be specified in the following sequence:</p> <ul style="list-style-type: none"> Value date (= blanks, as indicated in the header) ISO currency code: CHF only Amount <p>For slips with 5-digit party numbers, a maximum of 7 places before the decimal point and, for slips with 9 digits, a maximum of 8 places before and a maximum of 2 places after the decimal point are accepted.</p>	<p>6x</p> <p>3x</p> <p>12x</p>	24x	<p>BBBBBB</p> <p>CHF</p> <p>9, 5BBBBBBBBBB</p>
		ma		14x		Reserve
total				128x		

		ma		2n		Segment = 02
50:	Ordering party	ma	Ordering party's address	4 * 20x	4 * 20x	
		ma		46x		Reserve
total				128x		

[illegible]

4.3 TA 827, domestic CHF payments (bank and postal account payments and postal orders)

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 01
		ma		51x	51x	Header see section 4.1
20:	Reference number	ma	First 5 positions DTA-ID and 11 positions transaction reference number. Details see field description in TA 826.	16x	16x	ABC0100123478901
25:	Account to be debited	ma	Without IBAN or with IBAN Details see field description in TA 826	24x	24x	10235678BBBBBBBBBBBBBBBB or CH9300762011623852957BBB
32A:	Payment amount	ma	The amount is displayed according to SWIFT standards. All three sub-fields must be specified in the following sequence: <ul style="list-style-type: none"> Value date 6 x (= blanks, as indicated in the header) ISO currency code: CHF only Amount Payments in favour of postal accounts may display a maximum of 9 positions before the decimal place. A maximum of 6 positions before the decimal place is permitted for postal orders instructions. A maximum of 2 places after the decimal point are accepted.	6x 3x 12x	24x	BBBBBB CHF 9,5BBBBBBBBBB
		ma		14x		Reserve
total				128x		

		ma		2n		Segment = 02
50:	Ordering party	ma	Ordering party's address	4 * 24x	4 * 35x	
		ma		30x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 03
59:	Beneficiary	ma	Bank payments Bank account no. (max. 27 positions) and beneficiary's address. Line 1 for manual entry: 21-digit CH-IBAN or bank account no. preceded by /C/ Recommendation: payments with IBAN should – if possible – be completed with TA 836. Line 1 for reading the slip optically: 27 positions from code line (pos. 18 to 44) preceded by /C/ Lines 2 to 5: Beneficiary's address	30x	5 * 35x	/C/CH9300762011623852957BBBBBB or /C/111222333BBBBBBBBBBBBBBBBBBBBBB /C/0000000000000000001112223339
			Postal payments to a postal account Line 1: Postal account no. (always 9 digits, with no dashes) preceded with /C/ Format: (Example: 25-9034-2) Pos. 1 to 3: = /C/ Pos. 4 and 5: = leading digit (= 25) Pos. 6 to 11: = allocation number (= 009034) Pos. 12: = check digit for postal account no. Lines 2 to 5: Name and address of the beneficiary	30x	5 * 30x	/C/250090342BBBBBBBBBBBBBBBBBB
				4 * 24x		
				4 * 24x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
			Postal order Line 1: after "/C/" filled in with blanks. Lines 2 to 5: The full address is mandatory for a postal order. A valid postal code/zip code and town must appear on the last line.	30x 4 * 24x	4 * 30x	/C/BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB MARIO HUGBBBBBBBBBBBBBBBB BURGSTRASSE 11BBBBBBBBBB 4132 MUTTENZBBBBBBBBBBBBBB BBBBBBBBBBBBBBBBBBBBBBBBBB
total				128x		
		ma		2n		Segment = 04
70:	Reason for payment	op	Message to the (end) beneficiary. For payments to a postal account or made by postal order, max. 28 characters per line.	4 * 28x	4 * 35x	
		ma		14x		Reserve
total				128x		
		ma		2n		Segment = 05
55:	End beneficiary	op	End beneficiary's account number and address Line 1 = account number preceded by /C/ Line 2 to 5 = address This field may not be used for bank clearing payments.	30x 4 * 24x	5 * 35x	
total				128x		

4.4 TA 830, payments to financial institutions abroad in CHF and FX as well as domestic FX payments

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 01
		ma		51x	51x	Header see section 4.1
20:	Reference number	ma	First 5 positions DTA-ID and 11 positions transaction reference number. Details see field description in TA 826.	16x	16x	ABC0100123478901
25:	Account to be debited	ma	Without IBAN or with IBAN Details see field description in TA 826	24x	24x	10235678BBBBBBBBBBBBBBBBBB or CH9300762011623852957BBB
32A:	Payment amount	ma	The amount is displayed according to SWIFT standards. All three sub-fields must be specified in the following sequence: <ul style="list-style-type: none"> • Value date • ISO currency code • Amount 	6x 3x 15x	24x	051031 USD 39,55BBBBBBBBBB
		ma		11x		Reserve
total				128x		

		ma		2n		Segment = 02
36:	Conversion rate	op	Only indicated if previously agreed on the basis of the bank's foreign exchange rate. A maximum of 6 decimal places is permitted.	12x	12x	
50:	Ordering party	ma	Ordering party's address	4 * 24x	4 * 35x	
		ma		18x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 03
		ma	Identification bank address "A" or "D"	1x		
57A: or 57D:	Beneficiary's institution (bank/post office)	ma	<p>Line 1 The 1st line contains, where available, /C/ and the identification of the beneficiary's institution (e.g. bank sorting code, BC number), otherwise blanks.</p> <p>Line 2 to 5 (Option "A") The 2nd line must contain the 8- or 11-character BIC address (= SWIFT address) of the beneficiary's institution. (Lines 3 to 5 must be left blank.)</p> <p>Line 2 to 5 (Option "D") Lines 2 to 5 can be used to enter the name and address of the beneficiary's institution.</p>	5 * 24x	5 * 35x	<p>/C/88844422BBBBBBBBBBBBBBBB</p> <p>BBBBLLRRNL2BBBBBBBBBBBBBBBB</p> <p>SPARKASSE OBERSEEBBBBBBBBBBBB BBBBBB ANYWHEREBBBBBBBBBBBBBBBBBBBB BBBB</p>
		ma		5x		Reserve
total				128x		

		ma		2n		Segment = 04
59:	Beneficiary	ma	<p>Line 1 contains /C/ and the account number (max. 21 positions), otherwise blanks.</p> <p>Recommendation: payments with IBAN should – if possible – be completed with TA 836 or 837.</p> <p>The beneficiary's address is to be entered in lines 2 to 5.</p>	5 * 24x	5 * 35x	/C/111222333BBBBBBBBBBBBBBBB
		ma		6x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2 n		Segment = 05
70:	Reason for payment	op	Message to the beneficiary.	4 * 30x	4 * 35x	
		ma		6x		Reserve
total				128x		

		ma		2 n		Segment = 06
72:	Bank payment instructions	op	<p>This field should only be used under exceptional circumstances e.g. for differing charging instructions to the ordering party's bank.</p> <p>In order that "automatic further processing" is possible, the rules for charges should be specified by entering one of the following standard codes in line 1 of field 72:</p> <p>a) for charge-free payment to the beneficiary: "CHG/OUR" (<i>to our charge</i>)</p> <p>b) all charges – even those of the ordering party's bank – to be deducted from the payment amount: "CHG/BEN" (<i>charge beneficiary</i>)</p> <p>c) where charges are split, it is recommended not to give any details since this represents the usual case, i.e. any charges resulting from the ordering party's bank are debited to the ordering party whilst those from the beneficiary's bank are usually deducted from the beneficiary.</p>	4 * 30x	6 * 35x	
		ma		6x		Reserve
total				128x		

4.5 TA 832, bank cheques in CHF and FX

Attention: Some banks refuse to accept orders for cheques via DTA transaction TA 832. If necessary, approval may have to be requested in advance from the ordering party's bank.

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 01
		ma		51x	51x	Header see section 4.1
20:	Reference number	ma	First 5 positions DTA-ID and 11 positions transactions reference number Details see field description in TA 826	16x	16x	ABC0100123478901
25:	Account to be debited	ma	Without IBAN or with IBAN Details see field description in TA 826	24x	24x	10235678BBBBBBBBBBBBBBBBBB or CH9300762011623852957BBB
32A:	Payment amount	ma	The amount is displayed according to SWIFT standards. All three sub-fields must be specified in the following sequence: <ul style="list-style-type: none"> Value date 6 x (= blanks, as indicated in the header) ISO currency code Amount 	6x 3x 15x	24x	051031 USD 39,55BBBBBBBBBBBB
		ma		11x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 02
36:	Conversion rate	op	Only indicated if previously agreed on the basis of the bank's foreign exchange rate. A maximum of 6 decimal places is permitted.	12x	12x	
50:	Ordering party	ma	Ordering party's address	4 * 24x	4 * 35x	
		ma		18x		Reserve
total				128x		

		ma		2n		Segment = 03
59:	Beneficiary	ma	Line 1 contains /C/; an account number is not allowed. Name and full address are to be entered in lines 2 to 5 where possible.	5 * 24x	5 * 35x	/C/BBBBBBBBBBBBBBBBBBBB TOM FORSTERBBBBBBBBBBBB PEACHTREE ROAD 45BBBBBB 65432 SAN DIEGOBBBBBBBB CALIFORNIABBBBBBBBBBBB
		ma		6x		Reserve
total				128x		

		ma		2n		Segment = 04
70:	Reason for payment	op	Message to the beneficiary	4 * 30x	4 * 35x	
		ma		6x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 05
72:	Bank payment instructions	op	<p>This field should only be used under exceptional circumstances e.g. for differing charging instructions to the ordering party's bank.</p> <p>In order that "automatic further processing" is possible, the rules for charges should be specified by entering one of the following standard codes in line 1 of field 72:</p> <p>a) for charge-free payment to the beneficiary: "CHG/OUR" (to our charge)</p> <p>b) all charges – even those of the ordering party's bank – to be deducted from the payment amount: "CHG/BEN" (charge beneficiary)</p> <p>c) where charges are split, it is recommended not to give any details since this represents the usual case, i.e. any charges resulting from the ordering party's bank are debited to the ordering party whilst those from the beneficiary's bank are usually deducted from the beneficiary.</p>	4 * 30x	6 * 35x	
		ma		6x		Reserve
total				128x		

4.6 TA 836, payments with an IBAN (International Bank Account Number) in Switzerland and abroad, in all currencies

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 01
		ma		51x	51x	Header see section 4.1
20:	Reference number	ma	First 5 positions DTA-ID and 11 positions transaction reference number. Details see field description in TA 826.	16x	16x	ABC0100123478901
25:	Account to be debited	ma	Without IBAN or with IBAN Details see field description in TA 826	24x	24x	10235678BBBBBBBBBBBBBBBBBB or CH9300762011623852957BBB
32A:	Payment amount	ma	The amount is displayed according to SWIFT standards. All three sub-fields must be specified in the following sequence: <ul style="list-style-type: none"> Value date ISO currency code Amount 	6x 3x 15x	24x	051031 EUR 99,45BBBBBBBBBB
		ma		11x		Reserve
total				128x		

		ma		2n		Segment = 02
36:	Conversation rate	op	Only indicated if previously agreed on the basis of the bank's foreign exchange rate. A maximum of 6 decimal places is permitted.	12x	12x	1,5150BBBBBB
50:	Ordering party	ma	Ordering party's address	3 * 35x	4 * 35x	
		ma		9x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 03
		ma	Identification bank address "A" or "D"	1x		
57A: or 57D:	Beneficiary's institution (bank/post office)	ma	<p>when option "A" 8- or 11-digit BIC address (=SWIFT address)</p> <p>when option "D" Name and address of the beneficiary's institution</p> <p>If Field 58 contains a CH or LI IBAN, no details on the financial institution are required.</p> <p>In this case, option "D" must be chosen in disc format and the address field completed with blanks.</p>	2 * 35x	4 * 35x	BBBBLRRNL2BBBBBBBBBBBBBBBBBBBB BBBB SPARKASSE OBERSEEBBBBBBBBBBBBBB BBBBBB ANYWHEREBBBBBBBBBBBBBBBBBBBB BBBB
58:	IBAN	ma	The blanks are to be omitted within the IBAN.	34x	34x	CH3808888123456789012BBBBBBBBBB BBB
		ma		21x		Reserve
total				128x		

		ma		2n		Segment = 04
59:	Beneficiary	ma	Name and address of the beneficiary	3 * 35x	4 * 35x	
		ma		21x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 05
		ma	Identification Purpose "I" or "U"	1x		
70I: or 70U:	Purpose	ma ma	Structured reference number 1 line of 20 positions fixed (without blanks), commencing with 2-digit check-digit (PP) or unstructured, free text max. 3 or 4 lines of 35 characters	3 * 35x fixed 20x, rest blank 3 * 35x	fixed 20x 4 * 35x	
71IA	Rules for charges	ma	Format: 0 = OUR = All charges debited to the ordering party 1 = BEN = All charges debited to the beneficiary 2 = SHA = charges split	1n	1n	
		ma		19x		Reserve
total				128x		

4.7 TA 837, payments to financial institutions in Switzerland and abroad, in all currencies

Only use this type of transaction after consulting the bank to be instructed (see section 2.2.6).

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 01
		ma		51x	51x	Header see section 4.1
20:	Reference number	ma	5 positions DTA-ID and 11 positions transaction reference number. Details see field description in TA 826	16x	16x	ABC0100123478901
25:	Account to be debited	ma	Without IBAN or with IBAN Details see field description in TA 826	34x	34x	10235678BBBBBBBBBBBBBBBBBBBBBBBBBBBB or CH9300762011623852957BBBBBBBBBBBB
32A:	Payment amount	ma	The amount is displayed according to SWIFT standards. All three sub-fields must be specified in the following sequence: <ul style="list-style-type: none"> Value date ISO currency code Amount 	6x 3x 15x	24x	070123 USD 7239,75BBBBBBBB
		ma		1x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 02
36:	Conversation rate	op	Only indicated if previously agreed on the basis of the bank's foreign exchange rate. A maximum of 6 decimal places is permitted.	12x	12x	1,5150BBBBBB
50:	Ordering party	ma	Ordering party's address	4 * 24x	4 * 35x	
		ma		18x		Reserve
total				128x		

		ma		2n		Segment = 03
		ma	Identification bank address "A" or "D"	1x		
57A: or 57D:	Beneficiary's institution (bank/post office)	ma	Line 1 The 1st line contains, where available, /C/ and the identification of the beneficiary's institution (e.g. bank sorting code, BC number), otherwise blanks. Line 2 to 5 (Option "A") The 2nd line must contain the 8- or 11-character BIC address (= SWIFT address) of the beneficiary's institution. (Lines 3 to 5 must be left blank.) Line 2 to 5 (Option "D") Lines 2 to 5 can be used to enter the name and address of the beneficiary's institution.	24x 4 * 24x	35x 4 * 35x	/C/88844422BBBBBBBBBBBBBB BBBBLLRRNL2BBBBBBBBBBBBBB SPARKASSE OBERSEEBBBBBBBBBBBB BBBBBB ANYWHEREBBBBBBBBBBBBBBBBBBBB BBBB
		ma		5x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 04
59:	Beneficiary	ma	Line 1 Line 1 contains /C/ and the account number (max. 21 positions) or /C/ and blanks, if an IBAN is entered in Field 58. Line 2 to 5 The beneficiary's address is to be entered in lines 2 to 5.	24x 4 * 24x	35x 4 * 35x	/C/111222333BBBBBBBBBBBBBBB /C/BBBBBBBBBBBBBBBBBBBBBBB
		ma		6x		Reserve
total				128x		

		ma		2n		Segment = 05
58:	IBAN (beneficiary's account number)	op	IBAN or blanks, if an account number is entered in Field 59. The blanks are to be omitted within the IBAN.	34x	34x	FR5812345678900001234567891BBBBB
		ma		92x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 06
		ma	Identification purpose "I" (structured) or "U" (unstructured)	1x		
70I: or 70U:	Purpose	ma ma op	With IPI: Structured reference number: 20 positions fixed (without blanks), commencing with 2-digit check-digit (PP) or unstructured, free text max. 1 line of 35 characters Without IPI: unstructured, free text max. 3 or. 4 lines of 35 characters	3 * 35x	fix 20x max. 35x 4 * 35x	
71A	Rules for charges	ma	Format: 0 = OUR = All charges debited to the ordering party 1 = BEN = All charges debited to the beneficiary 2 = SHA = charges split	1n	1n	
		ma		19x		Reserve
total				128x		

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2 n		Segment = 07
		ma	Identification Bank payment instructions "S" or "U"	1x		
72S: or 72U:	Bank payment instructions	op	Structured instruction Codes as agreed with the financial institution (for example as in SWIFT Field 23) or Unstructured instruction (not used for regulating charges)	3 * 35x or 4 * 30x	6 * 35x	
		ma	when option "S" when option "U"	20x 5x		Reserve
total				128x		

4.8 TA 890, total record

Field ID	Field description		Description	Fixed format	Variable format	Remarks or examples in fixed format
		ma		2n		Segment = 01
		ma		51x	51x	Header see section 4.1
90:	Total amount	ma	A control total (max. 16-digit amount incl. mandatory comma) must be generated for each data file. All payment record amounts will be added together taking account of the comma, regardless of the currency. A maximum of 3 decimal places is permitted.	16x	16x	789325,450BBBBBB
		ma		59x		Reserve
total				128x		

5 DTA validation rules

These validation rules correspond to the rules when transmitting files to SIX Interbank Clearing. The banks may have different validation rules.

The following signs in column "Action" mean:

△ = Warning (record will be processed as an exception, the error must be eliminated)

⊗ = Record will not be processed

☒ = Format error (data file will not be processed)

Field name	Validation	Error message	Action
Requested processing date	(Header)	VERARBEITUNGSDATUM ... (PROCESSING DATE ...)	
	Must be zero for TA 830, 832, 836, 837 and 890.	NICHT ERLAUBT (NOT PERMITTED)	⊗
	Must contain a valid date for TA 826 and 827.	UNGÜLTIG (INVALID)	⊗
	May not be elapsed more than 10 calendar days.	VERFALLEN (EXPIRED)	⊗
	Requested processing date may not exceed the read-in date + 60 days.	ZU WEIT IN DER ZUKUNFT (TOO FAR AHEAD)	⊗
Bank clearing no. of beneficiary's bank	(Header)	BANK DES BEGÜNSTIGTEN ... (BENEFICIARY'S BANK ...)	
	For TA 827 (payments to clearing banks only) must contain a valid BC no.	UNGÜLTIG (INVALID)	⊗
	Must be blank for TA 826, 827 (postal payments, postal orders) and 830, 832, 836 and 837.	NICHT ERLAUBT (NOT ALLOWED)	⊗
	TA 827 check digit for the BC no. is invalid.	PZ UNGÜLTIG (CHECK DIGIT INVALID)	⊗
	In case of a chained BC no. a warning is issued: The BC number has to be changed to the new BC number (nnnnn).	IST ERSETZT DURCH nnnnn (HAS BEEN REPLACED BY nnnnn)	△

Field name	Validation	Error message	Action
Creation date	(Header)	ERSTELLUNGSDATUM ... (CREATION DATE ...)	
	Must contain a valid date.	UNGÜLTIG (INVALID)	☒
	May not differ by +/- 90 calendar days from the date when read in.	UNGÜLTIG (INVALID)	☒
	Must be identical with the creation date on the first record of the data file.	VERSCHIEDEN (DIFFERENT)	☒
Bank clearing no. of the ordering party's bank	(Header)	BANK DES AUFTRAGGEBERS ... (ORDERING PARTY'S BANK ...)	
	Must contain a valid BC no. based on the register.	UNGÜLTIG (INVALID)	⊗
	In case of a chained BC no. a warning is issued: The BC number has to be changed to the new BC number (nnnnn).	IST ERSETZT DURCH nnnnn (HAS BEEN REPLACED BY nnnnn)	⚠
File/data carrier sender identification	(Header)	ABSENDER-IDENT. ... (SENDER IDENT. ...)	
	Must be identical with the first record on the data carrier.	VERSCHIEDEN (DIFFERENT)	☒
Entry sequence no.	(Header)	EINGABE-SEQUENZ-Nr. ERWARTETE SEQ.- Nr. ... (ENTERED SEQUENCE NO. EXPECTED SEQUENCE NO. ...)	
	Must be consecutive commencing with 1 in ascending order.	SEQUENZFEHLER nnnnn (SEQUENCE ERROR nnnnn)	☒
Transaction type	(Header)	TRANSAKTIONSART ... (TRANSACTION TYPE ...)	
	Must be TA 826, 827, 830, 832, 836, 837 or 890.	UNGÜLTIG (INVALID)	☒
	Total record must exist and contain the total of all records (no negative amounts).	TOTALRECORD (890) FEHLT (TOTAL RECORD (890) MISSING)	☒

Field name	Validation	Error message	Action
Payment type	(Header)	ZAHLUNGSART ... (PAYMENT TYPE ...)	
	May be 0 or 1 for TA 827, 836 and 837, but only 0 for the remaining TAs.	UNGÜLTIG (INVALID)	⊗
Reference number	(Field 20:)		
- first 5 positions:	Must contain a valid DTA identification.	KUNDEN-IDENT. UNGÜLTIG (CUSTOMER IDENT. INVALID)	⊗
- remaining 11 positions:	May not be blank.	TRANSAKTIONSNUMMER FEHLT (MISSING TRANSACTION NUMBER)	⊗
Account to be debited	(Field 25:)		
	May not be blank.	KTO-NR AUFTRAGGEBER ... (ORDERING PARTY ACC. NO. ...)	
	Account numbers and IBAN numbers must not exceed 16 or 21 digits, respectively; left-aligned, remaining positions blank.	FEHLT (MISSING)	⊗
	Only valid with a 21 digit Swiss IBAN (CH resp. LI)	ZU LANG (TOO LONG)	⊗
	IID in IBAN (pos. 5 to 9) must concur with the ordering party's BC no.	IBAN UNGÜLTIG (IBAN INVALID)	⊗
		IID IN IBAN NICHT MIT BC-NR. IDENTISCH (IID IN IBAN NOT IDENTICAL WITH BC-NO.)	⊗
Payment amount	(Field 32A:)		
- first 6 positions "VALUE"		VALUTA ... (VALUE ...)	
	Must contain a valid date for TA 830, 832, 836 and 837.	UNGÜLTIG (INVALID)	⊗
	Must be blank or contain zeros for TA 826 and 827.	NICHT ERLAUBT (NOT ALLOWED)	⊗
	May not exceed the reading in date + 60 days for TA 836 and 837.	ZU WEIT IN DER ZUKUNFT (TOO FAR AHEAD)	⊗
	May not be elapsed more than 10 calendar days for TA 836 and 837.	VERFALLEN (EXPIRED)	⊗

Field name	Validation	Error message	Action
- next 3 positions Currency code		WÄHRUNGSCODE ... (CURRENCY CODE ...)	
	TA 826 and 827 must display the currency code for Switzerland and Liechtenstein (CHF). Must contain a valid ISO currency code for TA 830, 832, 836 and 837. Must contain a valid ISO currency code.	UNGÜLTIG (INVALID) FEHLT (MISSING)	⊗ ⊗
- Remaining 15 positions incl. mandatory comma Payment amount		BETRAG ... (AMOUNT ...)	
	Must include a comma.	KOMMA FEHLT (COMMA MISSING)	⊗
	May not contain more than 3 decimal places (foreign currencies).	MEHR ALS 3 DEZIMALEN (MORE THAN 3 DECIMAL PLACES)	⊗
	May not contain more than 2 decimal places.	MEHR ALS 2 DEZIMALEN (MORE THAN 2 DECIMAL PLACES)	⊗
	This currency may not display any decimal places after the comma.	DEZIMALSTELLEN NICHT ERLAUBT (NO DECIMAL PLACES PERMITTED)	⊗
	Apart from the comma, only digits allowed.	NICHT NUMMERISCH (NOT NUMERICAL)	⊗
	May not be zero.	UNGÜLTIG (INVALID)	⊗
	For TA 827 (in favour of postal accounts) may not exceed 1 billion, or 1 million for TA 827 (postal order).	ZU GROSS (TOO LARGE)	⊗
Conversion rate	(Field 36:)	UMRECHNUNGSKURS ... (CONVERSION RATE ...)	
	Apart from a comma, must be numerical.	UNGÜLTIG (INVALID)	⊗
	Must include a comma for TA 830, 832, 836 and 837.	KOMMA FEHLT (COMMA MISSING)	⊗

Field name	Validation	Error message	Action
Ordering party address	(Field 50:)	AUFTRAGGEBER ... (ORDERING PARTY ...)	
	At least one line must exist.	UNVOLLSTÄNDIG (INCOMPLETE)	⊗
End beneficiary	(Field 55:)	ENDBEGÜNSTIGTER ... (END BENEFICIARY ...)	
	May only be used for payments to postal account in TA 827.	NICHT ERLAUBT (NOT ALLOWED)	⊗
Beneficiary's bank address	(Field 57A:/57D:)	BANK DES BEGÜNSTIGTEN ... (BENEFICIARY'S BANK ...)	
	Field no. 57A: or 57D: must exist for TA 830, 836 and 837.	FEHLT (MISSING)	⊗
	Field no. 57A: or 57D: may only exist for TA 830, 836 and 837.	NICHT ERLAUBT (NOT ALLOWED)	⊗
	At least the first line must exist.	UNVOLLSTÄNDIG (INCOMPLETE)	⊗
	Field 57A: may only be used if an 8 or 11 character BIC address (SWIFT) exists.	FALSCHER FELDIDENTIFIKATION (INCORRECT FIELD IDENTIFICATION)	⊗
IBAN (Beneficiary's account number)	(Field 58:)	IBAN ...	
	Number of characters not compatible with country-specific requirement.	UNGÜLTIGE LÄNGE (INVALID LENGTH)	⊗
	Check digit calculated by modulo 97-10 does not concur with the country code or remaining data.	UNGÜLTIG (INVALID)	⊗
	The Swiss financial institution BC no. (pos. 5 to 9) is invalid.	UNGÜLTIGE CH-BC-NR. IN IBAN (INVALID CH BC NO. IN IBAN)	⊗
Beneficiary - Line 1 Beneficiary's account	(Field 59:)		
		KTO-NR. BEGÜNST. ... (BENEFICIARY ACC. NO ...)	
	Must exist for TA 827 (bank account no., postal account no.) and TA 826 (ISR party no.).	FEHLT (MISSING)	⊗
	Must contain a valid postal acc. no. for TA 827 (postal account payments) (a control is	UNGÜLTIG (INVALID)	⊗

Field name	Validation	Error message	Action
- Lines 2 to 5 Beneficiary's address	made of the leading character, allocation number and check digit).		
	Valid check digit in TA 826.	FALSCHE ESR-PZ (INCORRECT ISR CHECK DIGIT)	⊗
	TA 827 (postal acc. no.) the check digit calculated by modulo 10, recursive does not concur with the specified postal account no.	PRÜFZIFFER UNGÜLTIG (CHECK DIGIT INVALID UNGÜLTIG)	⊗
	Not a valid 21 digit Swiss IBAN.	IBAN UNGÜLTIG (INVALID IBAN)	⊗
	BC No of the Swiss financial institution (pos. 5 to 9) must be valid.	UNGÜLTIGE CH-BC-NR. IN IBAN (INVALID BC NO IN IBAN)	⊗
		BEGÜNSTIGTER ... (BENEFICIARY ...)	
	At least two address lines must exist	UNVOLLSTÄNDIG (INCOMPLETE)	⊗
	/C/ may not be present for TA 836 (see field 58:).	UNGÜLTIG (INVALID)	⊗
		MITTEILUNGEN ... (MESSAGES ...)	
		FALSCHE ESR-PZ (INCORRECT ISR CHECK DIGIT)	⊗
Reason for payment	(Field 70:)	NICHT NUMERISCH (NOT NUMERICAL)	⊗
	For TA 826 the 2-digit check digit on the 2 nd line must be correct (ISR with 5-digit party no.).		
Purpose	The reference no. in TA 826 must be numerical.		
	(Field 70I:70U:)	VERWENDUNGSZWECK ... (PURPOSE ...)	
	Field no. 70I: or 70U: may only appear in TA 836 and 837.	NICHT ERLAUBT (NOT PERMITTED)	⊗
	Field 70I: may only be used if a 20-digit IPI reference (incl. valid check digit) is entered.	FALSCHE FELDIDENTIFIKATION (INCORRECT FIELD IDENTIFICATION)	⊗

Field name	Validation	Error message	Action
Rules for charges	(Field 71A:)	SPESENREGELUNG ... (RULES GOVERNING CHARGES ...)	
	Only codes 0, 1, 2 or blank permitted.	UNGÜLTIG (INVALID)	⊗
	Must be specified for TA 836 and 837.	FEHLT (MISSING)	⊗
Total	(Field 90:)	TOTALBETRAG ... (TOTAL AMOUNT ...)	
	Must include a comma.	KOMMA FEHLT (COMMA MISSING)	☒
	Apart from a comma, must be numerical.	NICHT NUMERISCH (NOT NUMRTICAL)	☒
	May not contain more than 3 decimal places.	MEHR ALS 3 DEZIMALEN (MORE THAN 3 DECIMAL PLACES)	☒
	Total amount does not correspond to the sum of all the records or total amount may not be "zero"	KONTROLLTOTAL FALSCH (CONTROL TOTAL INCORRECT)	☒

6 Examples of payment slips

6.1 Payment slip with reference no. (ISR), TA 826

6.1.1 ISR with 9-digit party number

Specimen slip for orange payment slips with reference number and pre-printed amount (**ISR**) (with **9-digit** party number)

Einzahlung Giro	Versement Virement	Versamento Girata
<p>Einzahlung für/Versement pour/Versamento per</p> <p>Robert Schneider SA Grands magasins Case postale 2501 Biel / Bienne</p> <p>Konto / Compte / Conto 01-39139-1</p> <p>CHF</p> <p>3949 . 75</p> <p>609</p>	<p>Keine Mitteilungen anbringen Pas de communications Non aggiunte comunicazioni</p> <p>Referenz-Nr./N° de référence/N° di riferimento</p> <p>21 00000 00003 13947 14300 09017</p> <p>Einbezahlt von / Versé par / Versato da</p> <p>Rutschmann Pia Marktgasse 28 9400 Rorschach</p>	<p>01.2004</p>
<p>0100003949753>210000000003139471430009017+ 010391391></p> <p>Amount = ④ Reference number = ③ Party number = ②</p>		

- ① Address of the ordering party (50:)
- ② 9-digit ISR party number (59: Line 1)
- ③ Reference number (70: Reason of payment)
- ④ Amount (32A:)

The numbers listed in brackets e.g. (50:) correspond to the field identification in TA 826, based on section 4.2.

6.2.2 Payment to the beneficiary's postal account

✚ Einzahlung Giro ✚	✚ Versement Virement ✚	✚ Versamento Girata ✚
<p>Einzahlung für / Versement pour / Versamento per</p> <p>Robert Schneider SA Grands magasins Case postale 2501 Biel / Bienne</p> <p>②</p>	<p>Zahlungszweck / Motif versement / Motivo versamento</p> <p>Rechnung Nr. 408</p> <p>02.2004</p>	
<p>Konto / Compte / Conto</p> <p>CHF</p> <p>25-9034-2</p> <p>8 4 7 9 . 2 5</p> <p>④</p> <p>105</p>	<p>Einbezahlt von / Versé par / Versato da</p> <p>Lehmann Boris Marktplatz 4 9400 Rorschach</p> <p>⑤</p>	<p>441.02 PF</p>
		<p>③ A</p> <p>250090342></p> <p>250090342></p>

- ① Messages (70:)
- ② Beneficiary (59: address)
- ③ Beneficiary (59: account number) (see also ⑥)
- ④ Amount (32A:)
- ⑤ Ordering party (50:)
- ⑥ Beneficiary (59: account number) (see also ③)

The numbers listed in brackets e.g. (50:) correspond to the field identification in TA 827, based on section 4.3.

6.2.3 IPI payment slip

Specimen for IPI payment slip with IBAN

Ordering Customer / Auftraggeber		International Payment Instruction	
⑥ Account number Kontonummer		Amount to be paid zu zahlender Betrag	
① Name / Name Address / Adresse	HERR PETER HALLER ROSENAUWEG 4 D-80036 MUENCHEN	⑦ Currency / Amount Währung / Betrag	EUR **3421,00
Beneficiary / Begünstigter		⑧ Charges to be paid by Gebühren zu Lasten	2
② Account number Kontonummer	CH93 0076 2011 6238 5295 7	Signature(s) / Unterschrift(en) No company stamps / Bitte nicht stampeln	
③ Name / Name	MUSTER AG, SELDWYLA	Date of signature(s) Datum (TTMMJJJJ)	
④ Beneficiary's Bank Bank des Begünstigten	ZKBKCHZZ80A		
⑤ Details of payment Verwendungszweck	5200 0005 6781 2348 9012	Reporting Meldecode	
		⑨ Form Form 00	

Please refer to your bank for instructions.
Ausführungsanweisungen erhalten Sie bei Ihrem Finanzinstitut.

CH 80036 1107.1 8.02 000 000

- ① Address of the ordering party (50:)
- ② IBAN (account number) of the beneficiary (58:)
- ③ Beneficiary's details, line 1 (59:)
- ④ Beneficiary's institution, line 1 (57A/D:)
- ⑤ Purpose
 - structured, form code 00, 02, 04 (70I:) 20-digit reference number
 - unstructured, remaining form code (70U:) free text, line
- ⑥ Beneficiary's account number (25:)
- ⑦ Currency and amount (32A:)
- ⑧ Code for rules for charging (71A:)
- ⑨ Form code (omit)

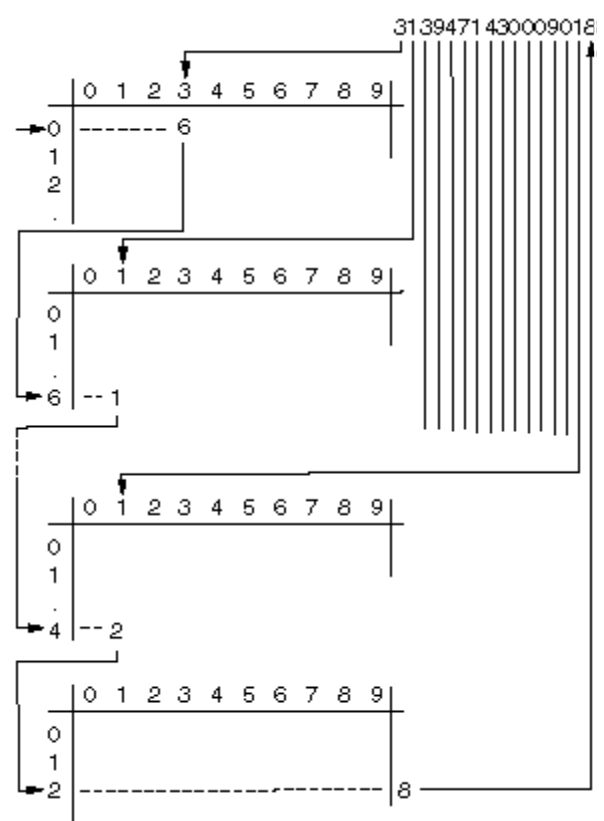
The numbers listed in brackets e.g. (50:) correspond to the field identification in TA 836, based on section 4.6.

6.3 Check digit calculation processes

6.3.1 Check digit calculation process Modulo 10, recursive

Carry over	Digits for fields to be checked										Check digit
	0	1	2	3	4	5	6	7	8	9	
0	0	9	4	6	8	2	7	1	3	5	0
1	9	4	6	8	2	7	1	3	5	0	9
2	4	6	8	2	7	1	3	5	0	9	8
3	6	8	2	7	1	3	5	0	9	4	7
4	8	2	7	1	3	5	0	9	4	6	6
5	2	7	1	3	5	0	9	4	6	8	5
6	7	1	3	5	0	9	4	6	8	2	4
7	1	3	5	0	9	4	6	8	2	7	3
8	3	5	0	9	4	6	8	2	7	1	2
9	5	0	9	4	6	8	2	7	1	3	1

Example: Sequence of digits (positions 29-44 of an ISR code line with 16-digit reference no.)



Rules

- Commence with carry-over 0 and combine with **1st digit** of row 3, resulting in a value or carry-over of 6
- Carry-over 6 combined with **2nd digit** of row 1 results in a combination or carry-over of 1
- etc.
- Carry-over 4 combined with **last digit** of row 1 results in a combination or carry-over of 2
- The value in the last column in the extension of carry-over 2 is the check digit = 8

6.3.2 Check digit calculation process Modulo 11

Example (ISR with 5-digit party no.):

P	R	BC	Amount	Reference no.	Party no.
05	00	01	000012000	241170032660178	10304

Factors (weighting)	
4 3 2 7 6 5 4 3 2 7 6 5 4 3 2 7 6 5 4 3 2 7 6 5 4 3 2 7 6 5 4 3 2 7	
Products	
0 0 0 7 0 0 0 0 2 14 0 0 0 6 8 7 6 36 0 0 6 14 36 30 0 3 14 56 6 0 12 0 8	
Total of the products	= 270
Remainder following division by Modulo	
(270 : 11 = 24)	= 6 *)
Check digit = Modulo minus remainder	(11 - 6) = 05

*) if remainder = 0, check digit = 00

Key: P Check digit
R Reserve
BC Slip type code

6.3.3 Check digit calculation procedure Modulo 97-10

The check digit calculation procedure Modulo 97-10 is used for calculating check digits within the IBAN as well as in the structured purpose found on the IPI slip.

Further information can be obtained via the homepage www.six-interbank-clearing.com ⇒ [IBAN](#) of SIX Interbank Clearing.

7 Permitted characters

7.1 Permitted characters in ASCII format (ISO Latincode 8859-1)

The following table lists the characters permitted in ASCII format. Furthermore, the columns "Output" and "Remarks" indicate whether the character is accepted without change, whether it is converted to another character, or simply replaced as a "." (full stop).

The first 32 characters (Hex values 00 to 1F) are control characters and will be converted into "." (full stop).

Dec	Hex	Symbol	Designation	Output	Remarks
032	20	SPACE	SPACE	SPACE	
033	21	!	EXCLAMATION MARK	.	converted
034	22	"	QUOTATION MARK	.	converted
035	23	#	NUMBER SIGN	.	converted
036	24	\$	DOLLAR SIGN	.	converted
037	25	%	PERCENT SIGN	.	converted
038	26	&	AMPERSAND	+	converted
039	27	'	APOSTROPHE	'	
040	28	(	LEFT PARENTHESIS	(
041	29	)	RIGHT PARENTHESIS)	
042	2A	*	ASTERISK	.	converted
043	2B	+	PLUS SIGN	+	
044	2C	,	COMMA	,	
045	2D	-	HYPHEN-MINUS	-	
046	2E	.	FULL STOP	.	
047	2F	/	SOLIDUS	/	
048	30	0	DIGIT ZERO	0	
049	31	1	DIGIT ONE	1	
050	32	2	DIGIT TWO	2	
051	33	3	DIGIT THREE	3	
052	34	4	DIGIT FOUR	4	
053	35	5	DIGIT FIVE	5	
054	36	6	DIGIT SIX	6	
055	37	7	DIGIT SEVEN	7	
056	38	8	DIGIT EIGHT	8	
057	39	9	DIGIT NINE	9	
058	3A	:	COLON	:	
059	3B	;	SEMICOLON	.	converted
060	3C	<	LESS-THAN SIGN	.	converted
061	3D	=	EQUALS SIGN	.	converted

Dec	Hex	Symbol	Designation	Output	Remarks
062	3E	>	GREATER-THAN SIGN	.	converted
063	3F	?	QUESTION MARK	?	
064	40	@	COMMERCIAL AT	.	converted
065	41	A	LATIN CAPITAL LETTER A	A	
066	42	B	LATIN CAPITAL LETTER B	B	
067	43	C	LATIN CAPITAL LETTER C	C	
068	44	D	LATIN CAPITAL LETTER D	D	
069	45	E	LATIN CAPITAL LETTER E	E	
070	46	F	LATIN CAPITAL LETTER F	F	
071	47	G	LATIN CAPITAL LETTER G	G	
072	48	H	LATIN CAPITAL LETTER H	H	
073	49	I	LATIN CAPITAL LETTER I	I	
074	4A	J	LATIN CAPITAL LETTER J	J	
075	4B	K	LATIN CAPITAL LETTER K	K	
076	4C	L	LATIN CAPITAL LETTER L	L	
077	4D	M	LATIN CAPITAL LETTER M	M	
078	4E	N	LATIN CAPITAL LETTER N	N	
079	4F	O	LATIN CAPITAL LETTER O	O	
080	50	P	LATIN CAPITAL LETTER P	P	
081	51	Q	LATIN CAPITAL LETTER Q	Q	
082	52	R	LATIN CAPITAL LETTER R	R	
083	53	S	LATIN CAPITAL LETTER S	S	
084	54	T	LATIN CAPITAL LETTER T	T	
085	55	U	LATIN CAPITAL LETTER U	U	
086	56	V	LATIN CAPITAL LETTER V	V	
087	57	W	LATIN CAPITAL LETTER W	W	
088	58	X	LATIN CAPITAL LETTER X	X	
089	59	Y	LATIN CAPITAL LETTER Y	Y	
090	5A	Z	LATIN CAPITAL LETTER Z	Z	
091	5B	[	LEFT SQUARE BRACKET	.	converted
092	5C	\	REVERSE SOLIDUS	.	converted
093	5D	]	RIGHT SQUARE BRACKET	.	converted
094	5E	^	CIRCUMFLEX ACCENT	.	converted
095	5F	_	LOW LINE	.	converted
096	60	`	GRAVE ACCENT	.	converted
097	61	a	LATIN SMALL LETTER A	a	
098	62	b	LATIN SMALL LETTER B	b	
099	63	c	LATIN SMALL LETTER C	c	
100	64	d	LATIN SMALL LETTER D	d	
101	65	e	LATIN SMALL LETTER E	e	

Dec	Hex	Symbol	Designation	Output	Remarks
102	66	f	LATIN SMALL LETTER F	f	
103	67	g	LATIN SMALL LETTER G	g	
104	68	h	LATIN SMALL LETTER H	h	
105	69	i	LATIN SMALL LETTER I	i	
106	6A	j	LATIN SMALL LETTER J	j	
107	6B	k	LATIN SMALL LETTER K	k	
108	6C	l	LATIN SMALL LETTER L	l	
109	6D	m	LATIN SMALL LETTER M	m	
110	6E	n	LATIN SMALL LETTER N	n	
111	6F	o	LATIN SMALL LETTER O	o	
112	70	p	LATIN SMALL LETTER P	p	
113	71	q	LATIN SMALL LETTER Q	q	
114	72	r	LATIN SMALL LETTER R	r	
115	73	s	LATIN SMALL LETTER S	s	
116	74	t	LATIN SMALL LETTER T	t	
117	75	u	LATIN SMALL LETTER U	u	
118	76	v	LATIN SMALL LETTER V	v	
119	77	w	LATIN SMALL LETTER W	w	
120	78	x	LATIN SMALL LETTER X	x	
121	79	y	LATIN SMALL LETTER Y	y	
122	7A	z	LATIN SMALL LETTER Z	z	
123	7B	{	LEFT CURLY BRACKET	.	converted
124	7C	|	VERTICAL LINE	.	converted
125	7D	}	RIGHT CURLY BRACKET	.	converted
126	7E	~	TILDE	.	converted
127	7F		HIGH VALUE	.	converted
128	80			SPACE	converted
129	81			SPACE	converted
130	82			SPACE	converted
131	83			SPACE	converted
132	84			SPACE	converted
133	85			SPACE	converted
134	86			SPACE	converted
135	87			SPACE	converted
136	88			SPACE	converted
137	89			SPACE	converted
138	8A			SPACE	converted
139	8B			SPACE	converted
140	8C			SPACE	converted
141	8D			SPACE	converted

Dec	Hex	Symbol	Designation	Output	Remarks
142	8E			SPACE	converted
143	8F			SPACE	converted
144	90			SPACE	converted
145	91			SPACE	converted
146	92			SPACE	converted
147	93			SPACE	converted
148	94			SPACE	converted
149	95			SPACE	converted
150	96			SPACE	converted
151	97			SPACE	converted
152	98			SPACE	converted
153	99			SPACE	converted
154	9A			SPACE	converted
155	9B			SPACE	converted
156	9C			SPACE	converted
157	9D			SPACE	converted
158	9E			SPACE	converted
159	9F			SPACE	converted
160	A0		NO-BREAK SPACE	.	converted
161	A1	¡	INVERTED EXCLAMATION MARK	.	converted
162	A2	¢	CENT SIGN	.	converted
163	A3	£	POUND SIGN	.	converted
164	A4	¤	CURRENCY SIGN	.	converted
165	A5	¥	YEN SIGN	.	converted
166	A6	¦	BROKEN BAR	.	converted
167	A7	§	SECTION SIGN	.	converted
168	A8	¨	DIAERESIS	.	converted
169	A9	©	COPYRIGHT SIGN	.	converted
170	AA	ª	FEMININE ORDINAL INDICATOR	.	converted
171	AB	«	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK	.	converted
172	AC	¬	NOT SIGN	.	converted
173	AD		SOFT HYPHEN	.	converted
174	AE	®	REGISTERED SIGN	.	converted
175	AF	ˆ	MACRON	.	converted
176	B0	°	DEGREE SIGN	.	converted
177	B1	±	PLUS-MINUS SIGN	.	converted
178	B2	²	SUPERSCRITPT TWO	.	converted
179	B3	³	SUPERSCRITPT THREE	.	converted
180	B4	´	ACUTE ACCENT	.	converted
181	B5	µ	MICRO SIGN	.	converted

Dec	Hex	Symbol	Designation	Output	Remarks
182	B6	¶	PILCROW SIGN	.	converted
183	B7	.	MIDDLE DOT	.	converted
184	B8	¸	CEDILLA	.	converted
185	B9	¹	SUPERSCRIPT ONE	.	converted
186	BA	º	MASCULINE ORDINAL INDICATOR	.	converted
187	BB	»	RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK	.	converted
188	BC	¼	VULGAR FRACTION ONE QUARTER	.	converted
189	BD	½	VULGAR FRACTION ONE HALF	.	converted
190	BE	¾	VULGAR FRACTION THREE QUARTERS	.	converted
191	BF	¿	INVERTED QUESTION MARK	.	converted
192	C0	À	LATIN CAPITAL LETTER A WITH GRAVE	A	converted
193	C1	Á	LATIN CAPITAL LETTER A WITH ACUTE	A	converted
194	C2	Â	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	converted
195	C3	Ã	LATIN CAPITAL LETTER A WITH TILDE	A	converted
196	C4	Ä	LATIN CAPITAL LETTER A WITH DIAERESIS	AE	converted
197	C5	Å	LATIN CAPITAL LETTER A WITH RING ABOVE	A	converted
198	C6	Æ	LATIN CAPITAL LETTER AE	AE	converted
199	C7	Ç	LATIN CAPITAL LETTER C WITH CEDILLA	C	converted
200	C8	È	LATIN CAPITAL LETTER E WITH GRAVE	E	converted
201	C9	É	LATIN CAPITAL LETTER E WITH ACUTE	E	converted
202	CA	Ê	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	E	converted
203	CB	Ë	LATIN CAPITAL LETTER E WITH DIAERESIS	E	converted
204	CC	Ì	LATIN CAPITAL LETTER I WITH GRAVE	I	converted
205	CD	Í	LATIN CAPITAL LETTER I WITH ACUTE	I	converted
206	CE	Î	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	I	converted
207	CF	Ï	LATIN CAPITAL LETTER I WITH DIAERESIS	I	converted
208	D0	Ð	LATIN CAPITAL LETTER ETH	.	converted
209	D1	Ñ	LATIN CAPITAL LETTER N WITH TILDE	N	converted
210	D2	Ò	LATIN CAPITAL LETTER O WITH GRAVE	O	converted
211	D3	Ó	LATIN CAPITAL LETTER O WITH ACUTE	O	converted
212	D4	Ô	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	O	converted
213	D5	Õ	LATIN CAPITAL LETTER O WITH TILDE	O	converted
214	D6	Ö	LATIN CAPITAL LETTER O WITH DIAERESIS	OE	converted
215	D7	×	MULTIPLICATION SIGN	.	converted
216	D8	Ø	LATIN CAPITAL LETTER O WITH STROKE	.	converted
217	D9	Ù	LATIN CAPITAL LETTER U WITH GRAVE	U	converted
218	DA	Ú	LATIN CAPITAL LETTER U WITH ACUTE	U	converted
219	DB	Û	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	U	converted
220	DC	Ü	LATIN CAPITAL LETTER U WITH DIAERESIS	UE	converted
221	DD	Ý	LATIN CAPITAL LETTER Y WITH ACUTE	Y	converted

Dec	Hex	Symbol	Designation	Output	Remarks
222	DE	þ	LATIN CAPITAL LETTER THORN	.	converted
223	DF	ß	LATIN SMALL LETTER SHARP S	ss	converted
224	E0	à	LATIN SMALL LETTER A WITH GRAVE	a	converted
225	E1	á	LATIN SMALL LETTER A WITH ACUTE	a	converted
226	E2	â	LATIN SMALL LETTER A WITH CIRCUMFLEX	a	converted
227	E3	ã	LATIN SMALL LETTER A WITH TILDE	a	converted
228	E4	ä	LATIN SMALL LETTER A WITH DIAERESIS	ae	converted
229	E5	å	LATIN SMALL LETTER A WITH RING ABOVE	a	converted
230	E6	æ	LATIN SMALL LETTER AE	ae	converted
231	E7	ç	LATIN SMALL LETTER C WITH CEDILLA	c	converted
232	E8	è	LATIN SMALL LETTER E WITH GRAVE	e	converted
233	E9	é	LATIN SMALL LETTER E WITH ACUTE	e	converted
234	EA	ê	LATIN SMALL LETTER E WITH CIRCUMFLEX	e	converted
235	EB	ë	LATIN SMALL LETTER E WITH DIAERESIS	e	converted
236	EC	ì	LATIN SMALL LETTER I WITH GRAVE	i	converted
237	ED	í	LATIN SMALL LETTER I WITH ACUTE	i	converted
238	EE	î	LATIN SMALL LETTER I WITH CIRCUMFLEX	i	converted
239	EF	ï	LATIN SMALL LETTER I WITH DIAERESIS	i	converted
240	F0	ð	LATIN SMALL LETTER ETH	.	converted
241	F1	ñ	LATIN SMALL LETTER N WITH TILDE	n	converted
242	F2	ò	LATIN SMALL LETTER O WITH GRAVE	o	converted
243	F3	ó	LATIN SMALL LETTER O WITH ACUTE	o	converted
244	F4	ô	LATIN SMALL LETTER O WITH CIRCUMFLEX	o	converted
245	F5	õ	LATIN SMALL LETTER O WITH TILDE	o	converted
246	F6	ö	LATIN SMALL LETTER O WITH DIAERESIS	oe	converted
247	F7	÷	DIVISION SIGN	.	converted
248	F8	ø	LATIN SMALL LETTER O WITH STROKE	.	converted
249	F9	ù	LATIN SMALL LETTER U WITH GRAVE	u	converted
250	FA	ú	LATIN SMALL LETTER U WITH ACUTE	u	converted
251	FB	û	LATIN SMALL LETTER U WITH CIRCUMFLEX	u	converted
252	FC	ü	LATIN SMALL LETTER U WITH DIAERESIS	ue	converted
253	FD	ý	LATIN SMALL LETTER Y WITH ACUTE	y	converted
254	FE	þ	LATIN SMALL LETTER THORN	.	converted
255	FF	ÿ	LATIN SMALL LETTER Y WITH DIAERESIS	y	converted

7.2 Permitted characters in EBCDIC format

The following table lists the characters permitted in EBCDIC format. Furthermore, the columns "Output" and "Remarks" indicate whether the character is accepted without change, whether it is converted to another character, or simply replaced as "." (full stop).

The first 64 characters (Hex values 00 to 3F) are control characters and will be converted into "." (full stop).

Dec	Hex	Symbol	Designation	Output	Remarks
064	40	SPACE	SPACE	SPACE	
065	41		NO-BREAK SPACE	.	converted
066	42	â	LATIN SMALL LETTER A WITH CIRCUMFLEX	a	converted
067	43	ä	LATIN SMALL LETTER A WITH DIAERESIS	ae	converted
068	44	à	LATIN SMALL LETTER A WITH GRAVE	a	converted
069	45	á	LATIN SMALL LETTER A WITH ACUTE	a	converted
070	46	ã	LATIN SMALL LETTER A WITH TILDE	a	converted
071	47	å	LATIN SMALL LETTER A WITH RING ABOVE	a	converted
072	48	ç	LATIN SMALL LETTER C WITH CEDILLA	c	converted
073	49	ñ	LATIN SMALL LETTER N WITH TILDE	n	converted
074	4A	[	LEFT SQUARE BRACKET	.	converted
075	4B	.	FULL STOP	.	
076	4C	<	LESS-THAN SIGN	.	converted
077	4D	(	LEFT PARENTHESIS	(
078	4E	+	PLUS SIGN	+	
079	4F	!	EXCLAMATION MARK	.	converted
080	50	&	AMPERSAND	+	converted
081	51	é	LATIN SMALL LETTER E WITH ACUTE	e	converted
082	52	ê	LATIN SMALL LETTER E WITH CIRCUMFLEX	e	converted
083	53	ë	LATIN SMALL LETTER E WITH DIAERESIS	e	converted
084	54	è	LATIN SMALL LETTER E WITH GRAVE	e	converted
085	55	í	LATIN SMALL LETTER I WITH ACUTE	i	converted
086	56	î	LATIN SMALL LETTER I WITH CIRCUMFLEX	i	converted
087	57	ï	LATIN SMALL LETTER I WITH DIAERESIS	i	converted
088	58	ì	LATIN SMALL LETTER I WITH GRAVE	i	converted
089	59	ß	LATIN SMALL LETTER SHARP S	ss	converted
090	5A	]	RIGHT SQUARE BRACKET	.	converted
091	5B	\$	DOLLAR SIGN	.	converted
092	5C	*	ASTERISK	.	converted
093	5D	)	RIGHT PARENTHESIS)	
094	5E	;	SEMICOLON	.	converted
095	5F	^	CIRCUMFLEX ACCENT	.	converted
096	60	-	HYPHEN-MINUS	-	

Dec	Hex	Symbol	Designation	Output	Remarks
097	61	/	SOLIDUS	/	
098	62	Â	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	converted
099	63	Ä	LATIN CAPITAL LETTER A WITH DIAERESIS	AE	converted
100	64	À	LATIN CAPITAL LETTER A WITH GRAVE	A	converted
101	65	Á	LATIN CAPITAL LETTER A WITH ACUTE	A	converted
102	66	Ã	LATIN CAPITAL LETTER A WITH TILDE	A	converted
103	67	Å	LATIN CAPITAL LETTER A WITH RING ABOVE	A	converted
104	68	Ç	LATIN CAPITAL LETTER C WITH CEDILLA	C	converted
105	69	Ñ	LATIN CAPITAL LETTER N WITH TILDE	N	converted
106	6A	¡	BROKEN BAR	.	converted
107	6B	,	COMMA	,	
108	6C	%	PERCENT SIGN	.	converted
109	6D	_	LOW LINE	.	converted
110	6E	>	GREATER-THAN SIGN	.	converted
111	6F	?	QUESTION MARK	?	
112	70	ø	LATIN SMALL LETTER O WITH STROKE	.	converted
113	71	É	LATIN CAPITAL LETTER E WITH ACUTE	E	converted
114	72	Ê	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	E	converted
115	73	Ë	LATIN CAPITAL LETTER E WITH DIAERESIS	E	converted
116	74	È	LATIN CAPITAL LETTER E WITH GRAVE	E	converted
117	75	Í	LATIN CAPITAL LETTER I WITH ACUTE	I	converted
118	76	Î	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	I	converted
119	77	Ï	LATIN CAPITAL LETTER I WITH DIAERESIS	I	converted
120	78	Ì	LATIN CAPITAL LETTER I WITH GRAVE	I	converted
121	79	`	GRAVE ACCENT	.	converted
122	7A	:	COLON	:	
123	7B	#	NUMBER SIGN	.	converted
124	7C	@	COMMERCIAL AT	.	converted
125	7D	'	APOSTROPHE	'	
126	7E	=	EQUALS SIGN	.	converted
127	7F	"	QUOTATION MARK	.	converted
128	80	Ø	LATIN CAPITAL LETTER O WITH STROKE	.	converted
129	81	a	LATIN SMALL LETTER A	a	
130	82	b	LATIN SMALL LETTER B	b	
131	83	c	LATIN SMALL LETTER C	c	
132	84	d	LATIN SMALL LETTER D	d	
133	85	e	LATIN SMALL LETTER E	e	
134	86	f	LATIN SMALL LETTER F	f	
135	87	g	LATIN SMALL LETTER G	g	
136	88	h	LATIN SMALL LETTER H	h	

Dec	Hex	Symbol	Designation	Output	Remarks
137	89	i	LATIN SMALL LETTER I	i	
138	8A	«	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK	.	converted
139	8B	»	RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK	.	converted
140	8C	ð	LATIN SMALL LETTER ETH	.	converted
141	8D	ý	LATIN SMALL LETTER Y WITH ACUTE	y	converted
142	8E	þ	LATIN SMALL LETTER THORN	.	converted
143	8F	±	PLUS-MINUS SIGN	.	converted
144	90	°	DEGREE SIGN	.	converted
145	91	j	LATIN SMALL LETTER J	j	
146	92	k	LATIN SMALL LETTER K	k	
147	93	l	LATIN SMALL LETTER L	l	
148	94	m	LATIN SMALL LETTER M	m	
149	95	n	LATIN SMALL LETTER N	n	
150	96	o	LATIN SMALL LETTER O	o	
151	97	p	LATIN SMALL LETTER P	p	
152	98	q	LATIN SMALL LETTER Q	q	
153	99	r	LATIN SMALL LETTER R	r	
154	9A	ª	FEMININE ORDINAL INDICATOR	.	converted
155	9B	º	MASCULINE ORDINAL INDICATOR	.	converted
156	9C	æ	LATIN SMALL LETTER AE	ae	converted
157	9D	¸	CEDILLA	.	converted
158	9E	Æ	LATIN CAPITAL LETTER AE	AE	converted
159	9F	¤	CURRENCY SIGN	.	converted
160	A0	µ	MICRO SIGN	.	converted
161	A1	~	TILDE	.	converted
162	A2	s	LATIN SMALL LETTER S	s	
163	A3	t	LATIN SMALL LETTER T	t	
164	A4	u	LATIN SMALL LETTER U	u	
165	A5	v	LATIN SMALL LETTER V	v	
166	A6	w	LATIN SMALL LETTER W	w	
167	A7	x	LATIN SMALL LETTER X	x	
168	A8	y	LATIN SMALL LETTER Y	y	
169	A9	z	LATIN SMALL LETTER Z	z	
170	AA	¡	INVERTED EXCLAMATION MARK	.	converted
171	AB	¿	INVERTED QUESTION MARK	.	converted
172	AC	Ð	LATIN CAPITAL LETTER ETH	.	converted
173	AD	Ý	LATIN CAPITAL LETTER Y WITH ACUTE	Y	converted
174	AE	Þ	LATIN CAPITAL LETTER THORN	.	converted
175	AF	®	REGISTERED SIGN	.	converted
176	B0	¢	CENT SIGN	.	converted

Dec	Hex	Symbol	Designation	Output	Remarks
177	B1	£	POUND SIGN	.	converted
178	B2	¥	YEN SIGN	.	converted
179	B3	.	MIDDLE DOT	.	converted
180	B4	©	COPYRIGHT SIGN	.	converted
181	B5	§	SECTION SIGN	.	converted
182	B6	¶	PILCROW SIGN	.	converted
183	B7	¼	VULGAR FRACTION ONE QUARTER	.	converted
184	B8	½	VULGAR FRACTION ONE HALF	.	converted
185	B9	¾	VULGAR FRACTION THREE QUARTERS	.	converted
186	BA	¬	NOT SIGN	.	converted
187	BB	|	VERTICAL LINE	.	converted
188	BC	ˉ	MACRON	.	converted
189	BD	¨	DIAERESIS	.	converted
190	BE	´	ACUTE ACCENT	.	converted
191	BF	×	MULTIPLICATION SIGN	.	converted
192	C0	{	LEFT CURLY BRACKET	.	converted
193	C1	A	LATIN CAPITAL LETTER A	A	
194	C2	B	LATIN CAPITAL LETTER B	B	
195	C3	C	LATIN CAPITAL LETTER C	C	
196	C4	D	LATIN CAPITAL LETTER D	D	
197	C5	E	LATIN CAPITAL LETTER E	E	
198	C6	F	LATIN CAPITAL LETTER F	F	
199	C7	G	LATIN CAPITAL LETTER G	G	
200	C8	H	LATIN CAPITAL LETTER H	H	
201	C9	I	LATIN CAPITAL LETTER I	I	
202	CA		SOFT HYPHEN	.	converted
203	CB	ô	LATIN SMALL LETTER O WITH CIRCUMFLEX	o	converted
204	CC	ö	LATIN SMALL LETTER O WITH DIAERESIS	o	converted
205	CD	ò	LATIN SMALL LETTER O WITH GRAVE	o	converted
206	CE	ó	LATIN SMALL LETTER O WITH ACUTE	o	converted
207	CF	õ	LATIN SMALL LETTER O WITH TILDE	o	converted
208	D0	}	RIGHT CURLY BRACKET	.	converted
209	D1	J	LATIN CAPITAL LETTER J	J	
210	D2	K	LATIN CAPITAL LETTER K	K	
211	D3	L	LATIN CAPITAL LETTER L	L	
212	D4	M	LATIN CAPITAL LETTER M	M	
213	D5	N	LATIN CAPITAL LETTER N	N	
214	D6	O	LATIN CAPITAL LETTER O	O	
215	D7	P	LATIN CAPITAL LETTER P	P	
216	D8	Q	LATIN CAPITAL LETTER Q	Q	

Dec	Hex	Symbol	Designation	Output	Remarks
217	D9	R	LATIN CAPITAL LETTER R	R	
218	DA	¹	SUPERSCRIPT ONE	.	converted
219	DB	û	LATIN SMALL LETTER U WITH CIRCUMFLEX	u	converted
220	DC	ü	LATIN SMALL LETTER U WITH DIAERESIS	ue	converted
221	DD	ù	LATIN SMALL LETTER U WITH GRAVE	u	converted
222	DE	ú	LATIN SMALL LETTER U WITH ACUTE	u	converted
223	DF	ÿ	LATIN SMALL LETTER Y WITH DIAERESIS	y	converted
224	E0	\	REVERSE SOLIDUS	.	converted
225	E1	÷	DIVISION SIGN	.	converted
226	E2	S	LATIN CAPITAL LETTER S	S	
227	E3	T	LATIN CAPITAL LETTER T	T	
228	E4	U	LATIN CAPITAL LETTER U	U	
229	E5	V	LATIN CAPITAL LETTER V	V	
230	E6	W	LATIN CAPITAL LETTER W	W	
231	E7	X	LATIN CAPITAL LETTER X	X	
232	E8	Y	LATIN CAPITAL LETTER Y	Y	
233	E9	Z	LATIN CAPITAL LETTER Z	Z	
234	EA	²	SUPERSCRIPT TWO	.	converted
235	EB	Ô	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	O	converted
236	EC	Ö	LATIN CAPITAL LETTER O WITH DIAERESIS	OE	converted
237	ED	Ò	LATIN CAPITAL LETTER O WITH GRAVE	O	converted
238	EE	Ó	LATIN CAPITAL LETTER O WITH ACUTE	O	converted
239	EF	Õ	LATIN CAPITAL LETTER O WITH TILDE	O	converted
240	F0	0	DIGIT ZERO	0	
241	F1	1	DIGIT ONE	1	
242	F2	2	DIGIT TWO	2	
243	F3	3	DIGIT THREE	3	
244	F4	4	DIGIT FOUR	4	
245	F5	5	DIGIT FIVE	5	
246	F6	6	DIGIT SIX	6	
247	F7	7	DIGIT SEVEN	7	
248	F8	8	DIGIT EIGHT	8	
249	F9	9	DIGIT NINE	9	
250	FA	³	SUPERSCRIPT THREE	.	converted
251	FB	Û	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	U	converted
252	FC	Ü	LATIN CAPITAL LETTER U WITH DIAERESIS	UE	converted
253	FD	Ù	LATIN CAPITAL LETTER U WITH GRAVE	U	converted
254	FE	Ú	LATIN CAPITAL LETTER U WITH ACUTE	U	converted
255	FF			.	converted
Permitted control characters					

	EBCDIC	Hexadecimal
SOH	0000 0001	01
ETX	0000 0011	03
CR	0000 1101	0D
LF	0010 0101	25
+	0100 1110	4E
-	0110 0000	60
:	0111 1010	7A