ClieOp 03

File classification for direct debit and payment instructions in guilders and euros

Technical specifications of the electronic information carriers

Interpay



Foreword

The banks in the Netherlands have developed a uniform file classification for bank clients who want to deliver transactions on electronic information carriers: the ClieOp classification. For our clients the uniform classification means that direct debit and business payment (direct credit) instructions for Interpay, BankGiroCentrale (Interpay), the banks and the Postbank can be built up in the same manner. This means that double software is no longer required.

This brochure describes the ClieOp classificaton version 03, which is suitable for the delivery of batches with instructions which are processed at Interpay for the affiliated banks.

ClieOp version 03 allows instructions for business payments and direct debit to be delivered in the currencies guilders or euros. If you do not deliver direct debit or business payment instructions in the euro currency, you can continue to make use of previous versions of ClieOp, BGC.I, BGC.S and BGC.C. However, we advise you to make use of ClieOp 03 when the occasion arises; this classification is future-proof.

Before you actually offer instructions to Interpay for processing via the ClieOp 03 classificaton, a test must be carried out. You will find a description of this test in Chapter 9.

You can deliver instructions with the ClieOp 03 classification from the middle of November 1998 onward. Up to 1 January 1999 this will only be possible in guilders. As of 1-1-1999 you can also deliver your business payments in euros. Your bank will inform you about the acceptance date of direct debit instructions in euros. If you deliver instructions in euros, the instructions must be accompanied by a euro instruction letter. Instructions in guilders are to be accompanied by the normal (guilder) instruction letter. With regard to business payments it must be ensured that an instruction letter is also sent to the bank. Published by: Interpay Nederland B.V. Utrecht, september 1998

Interpay 5.1954 09.98 02

Table of Contents

1 Functional description of ClieOp 03

- 1.1 Medium-independent classification
- 1.2 General features

2 Structure of ClieOp 03

2.1 Structure diagram

3 Classification of info

- 3.1 Explanation of the form of the info classification
- 3.2 Specification of the info classification

4 Fields

- 4.1 Completion instruction for the fields
- 4.2 Field description

5 Specification of magnetic tape and cartridge

- 5.1 Physical features of information carrier
- 5.2 Label structure
- 5.3 Label set-up

6 Specification of $3^{1}/_{2}$ and $5^{1}/_{4}$ inch disks

- 6.1 Physical features of information carrier
- 6.2 Rules for writing
- 6.3 Root directory set-up

7 Specification of 8 inch disk

- 7.1 Physical features of information carrier
- 7.2 Rules for writing
- 7.3 Label structure
- 7.4 Label set-up

8 Delivery via datacommunication

- 8.1 You want to deliver via data communication
- 8.2 The Bankgiro Datacom System
- 8.3 Electronic instruction letter via datacommunication

9 Test

- 9.1 Objective of the test
- 9.2 Test sets
- 10 Changes compared to the ClieOp 02 classification

1 Functional Description of ClieOp 03

1.1 Medium-independent classification

The ClieOp classification has been set up to be independent of the media used. The classification is consequently suitable for delivery of direct debit or payment instructions via tape, cartridge, disk and datacommunication. The classification is a single file/multi-batch classification.

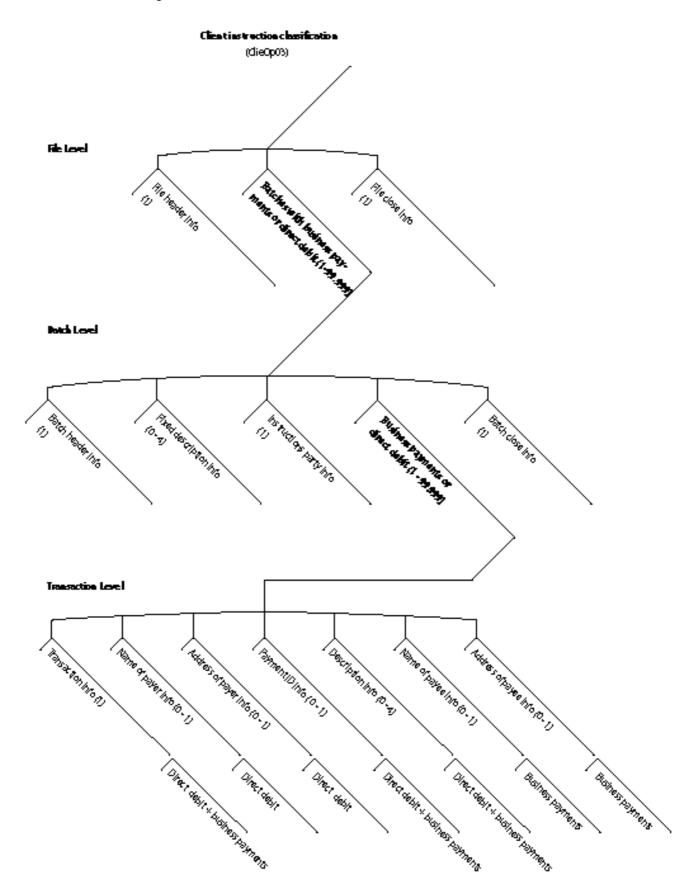
This classification does not use the term 'record', but rather the term 'info'. The classification is modular; information which functionally belongs together is always placed in one info.

1.2 General features

- Only one file may exist on one information carrier.
- Direct debit and business payment instructions may not occur in one file, i.e., the transaction group must be the same within one file.
- During processing the fixed description is automatically added to every transaction in the batch. The fixed description will be the first description on the daily statement of the contra account holder. Only then will the variable description be set out on the daily statement. Not all banks will indicate the payment features on the daily statement. The total number of infos for *Fixed Description* (batch level), *Description Info* (transaction level) and *Payment Reference* (transaction level) may not be greater than four per transaction.
- With regard to business payment instructions it is recommended that the creditor and salary payments be included in a separate batch. The salary payments, compacted, can then be acknowledged as a single total transaction.

2 Structure of ClieOp 03

2.1 Structure diagram



3 Classification of info

3.1 Explanation of the type of info classification 3.2.2

Info classification at batch level

- 9 the field is numerical
- X the field is alphanumerical
- (n) the field takes 'n' positions

3.2 Specification of the info classification

3.2.1 Info classification at file level

	-		
Name	Туре	Contents	
File header info			
Info code	9999	0001	
Variant code	Х	А	
File creation date	9(6)	ddmmyy	
File name	X(8)	CLIEOP03	
Sender ID	X(5)		
File ID	X(4)		
Duplicate code	9		
Filler	X(21)		
			_
	9999	9999	
Info code			
Variant code	Х	Α	
Filler	X(45)		

Name	Туре	Contents	
Batch header info			
Info code	9999	0010	
Variant code	Х	В	
Transaction group	XX		
Instructing party account number	9(10) 9999		
Batch serial number			
Deliver y currency	XXX		
Filler	X(26)		
Fixed description info			
Info code	9999	0020	
Variant code	Х	А	
Fixed description	X(32)		
Filler	X(13)		
Instructing party info			
Info code	9999	0030	
Variant code	Х	В	
NAW (Name and Address) code	9	2	
Required processing date	9(6)	ddmmyy	
Instructing party's name	X(35)	, , , , , , , , , , , , , , , , , , ,	
Test code	X		
Filler	XX		
Batch close info			
Info code	9999	9990	
Variant code	УУУУ Х	9990 A	
Total amount	^ 9(18)	n	
Total account numbers	9(18) 9(10)		
Number of transactions	9(10) 9(7)		

3.2.3 Info classification at transaction level

Name	Туре	Contents
Transaction info		
Info code	9999	0100
Variant code	х	А
Transaction type	хххх	
Amount	9(12)	
Payer's account number	9(10)	
Payee's account number	9(10)	
Filler	x(9)	
Name of payer info		
Info code	9999	0110
Variant code	х	В
Name of payer	x(35)	
Filler	x(10)	
Address of payer info		
Info code	9999	0113
Variant code	Х	В
Address of payer	x(35)	
Filler	x(10)	
Payment ID info		
Info code	9999	0150
Variant code	х	А
Payment ID	x(16)	
Filler	x(29)	
Description info		
Info code	9999	0160
Variant code	X	A
Description	x(32)	
Filler	x(02) x(13)	

Name	Туре	Contents
Name of payook info		
Name of payee's info	9999	0170
Variant code	X	В
Name of beneficiary	x(35)	
Filler	x(10)	
Address of payee's info		
Info code	9999	0173
Variant code	Х	В
Address of payee	x(35)	
Filler	x(10)	

4 Fields

4.1 Completion instruction for the fields

- Alphanumeric fields are written to the left and supplemented to the right with spaces, numeric fields are written to the right and supplemented to the left with zeros.
- Account numbers must have a numeric value, i.e. a giro account must not be preceded by a P.
- Uncompleted fields and fillers contain spaces if the 'Type' is alphanumeric (see 3.2 Info structures), or zeros if the 'Type' is numeric.
- If the number of digits of a total count exceeds the length of the field, the count will be cut off to the left.
- Every field must be completed, unless the description states otherwise.
- Fields which allow letters can be completed with upper and/or lower case. Unless otherwise instructed Interpay will convert lower case letters to upper case.
- A giro account will be considered 'nett' if the client has checked whether the name which is noted for that giro account in his file corresponds with the name which is registered with the Postbank.
- 'Non-nett' instructions must set out the name and address of the giro account holder concerned as you know it.

Field description

4.2

Amount (Transaction info) The amount to be transferred in cents. Subject to further changes, the maximum is NLG 999,999,999.99 or the counter-value thereof in euros per transaction. If the amount is greater the item will be rejected.

Batch serial number (Batch header info) Serial number increasing by 1 per batch. Numbering may be continued on consecutive information carriers.

Creation date of file (File header info) Date on which the file was created.

Delivery currency (Batch header info) Indicates in what currency the amount will be expressed in the transactions of the batch. Values: NLG Netherlands guilders; amount is in Dutch cents EUR euro; amount is in euro cents.

Description (Description info) Explanation of the transaction. *See also Paragraph 1.2 General features.*

Duplicate code (File header info) Indicates whether the file is a duplicate of a previous file. Values: 1 original 2 duplicate *Comment: original and duplicate only differ in this field.*

File ID (File header info)
Identifies the file uniquely per month.
Contents: position 1 - 2 = position 1 - 2 of
Creation date of file (day of the month)
position 3 - 4 from 1, sequential number increasing by 1 per day
of the month on which delivery took place.

Fixed description (Fixed description info) Contains a description applicable to all items of the batch. *See also Paragraph 1.2 General features.*

Info code (all infos) Identifies the info. For the values: see 3.2 Specification of the info classification. **Instructing party account number** (Batch header info) Contains the account number of the client of the batch. *This number must be a bank account number and must be the same as that on the instruction letter.*

Instructing party's name (Instructing party info) If completed, contains the name of the client. Interpay will overwrite this field with the name in the NAW file which belongs to the account number of the client.

NAW code (Instructing party info)

Indicates for payments (Transaction group 00) whether the client wants to receive the NAW data as used by the Postbank for 'non-verified' account numbers. To make use of this facility there must be a contract with Interpay. Values: 1 NAW not desired 2 NAW desired *Direct debit (Transaction code 10) always contains the value 1.*

Number of items (Batch close info) The number of Transaction infos between **Batch header info** and **Batch close info**. *Maximum 99,999 items per batch.*

Payee's account number (Transaction info) The account number of the recipient of the Amount. For Transaction group 10 this number must be the same as Instructing party account number

Payee's address (Payee's address info) If completed, contains the address which according to the client belongs to the payee's account number. For business payment instructions. The first 28 positions of this field will be processed, the remaining positions will be ignored.

Payee's name (payee's name info) Payee's name according to the client. For business payment instructions. The first 24 positions of this field will be processed, the remaining positions will be ignored.

Payer's account number (Transaction info) The account number of the payer of the Amount. For Transaction group 00 this number must be the same as the instucting party account number Payer's address (Payer's address info) If completed, contains the address which according to the client belongs to the **payer's account number** For direct debit instructions. The first 28 positions of this field will be processed, the remaining positions will be ignored.

Payer's name (Payer's name info) Name of the payer according to the client. For direct debit instructions. The first 24 positions of this field will be processed, the remaining positions will be ignored.

Payment ID (Payment ID info) Reference added to the transaction by the client. See also Paragraph 1.2 General Features.

Required processing date (instructing party info) If completed, contains the future date on which the batch is to be processed. You can deliver instructions up to a maximum of 30 calendar days before the required processing date. If there is a difference between the date stipulated here and the date which has been stipulated in the instruction letter, the date on the instruction letter is decisive.

Test code (instrucing party info) Indicates whether the batch is to be processed as production or test. Values: P production T test

Total account numbers (Batch close info) The total of the categories Payer's account number and Payee's account number in this batch. Both the Payer's account number and the Payee's account number have to be added up for each assignment.

If there is a difference between the value in the close record and the computer count of Interpay, the batch will be rejected.

Total amount (Batch close info) The total of the fields **Amount** in this batch. Subject to further changes, the maximum is NLG 99,999,999,999.99 or the counter-value thereof in euros per batch. If the amount is greater the item will be rejected.

Transaction group (Batch header info)

Indicates to what **Transaction group** the items of the batch belong. Values: 00 payments 10 Direct debit

Transmitter info (File header info) Identification that the transmitter gives to himself.

Transaction type (Transaction info)

Further	sub-	division within Transaction groups 00 and 10 by
adding	2 dig	its. Values:
0000	•	'Non-nett' creditor payment to a giro account
0003	•	'Non-nett' salary payment to a giro account
0005	•	'Nett' creditor payment to a giro account
	•	Creditor payment to a bank account

- 0008
 'Nett' salary payment to a giro account

 Salary payment to a bank account

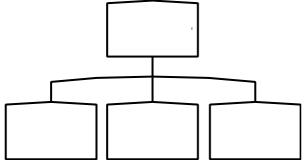
 1001
 'Nett' direct debit charged to a giro account
- Direct debit charged to a bank account
- 1002 'Non-Nett' direct debit charged to a giro account

Variant code (all infos)

Identifies the version of the info. A higher letter either contains more fields than the preceding version, or the last field of the info has been extended.

Specification of magnetic 5 tape and cartridge

5.1	Physical features of information carrier	5.3	Label classification
	Density of magnetic tape	5.3.1	Volume label
	Density of magnetic tape		
	1600 or 6250 BPI	Positions	Contents
	Density of cartridge	1 - 4	VOL1
	38000 BPI (IBM 3480)	5 - 10	Volume Serial Number
		11	blank (= accessibility not restricted)
	Alphabet	12 - 31	manufacturer-dependent, is not interpreted
	EBCDIC	32 - 37	reserve
		38 - 51	name/address of the owner
	Labels	52 - 80	reserve
	ISO R1001-1969 (E) (see 'Label structure')		
		5.3.2	Header label 1
	Structure		
	One physical file per tape (single file)	Positions	Contents
	Blocking factor	1 - 4	HDR1
	Can be chosen freely by the client with a minimum of 100 and	5 - 12	File identifier (see file name)
	a maximum of 500.	13 - 21	Reserve
	If you cannot create Header label 2, e.g. if you are using	22 - 27	Volume Serial Number of the first volume (optional)
	DOS/VSE, it is assumed that the block length is 5,000 bytes.	28 - 31	Volume Sequence Number (for first volume = 0001) (optional)
		32 - 35	File Sequence Number (= 0001)
	Info length	36 - 39	Generation Number (= 0001) (optional)
	50 bytes	40 - 41	Generation Version Number (= 01) (optional)
		42	Reserve
		43 - 44	Year of description (tens and units e.g. 93 for 1993) (optional)
5.2	Label structure	45 - 47	Day number of description (optional)
		48	Reserve
		49 - 50	Year of cancellation of the file (tens and units)



A tape mark should be placed between HDR2 and the Data records and between the data records and EOF1. Two tape marks are to be placed after EOF2.

Blank (= accessibility not restricted) Block Count (= 000000) 55 - 60 61 - 73 System Code (dependent on manufacturer)

Day number of cancellation

74 - 80 Reserve

51 - 53

54

5.3.3 Header label 2

Positions	Contents
1 - 4	HDR2
5	Record Format (= F)
6 - 10	Block Length (= N*50)
11 - 15	Record Length (= 50)
16 - 50	Reserved for Operating System
51 - 52	Buffer Offset
53 - 80	Reserve
5.3.4	Trailer label 1
Positions	Contents
1 - 4	EOF1
5 - 54	Same as Header 1 label
55 - 60	Block count (count of the number of blocks between header
	and End-of-File labels)

5 - 52 Same as Header 2 label

Positions Contents

EOF2

61 - 73

74 - 80

5.3.5

1 - 4

Same as Header 1 label

Reserve

Trailer label 2

53 - 80 Reserve

6 Specification of 3½ en 5¼ inch disks

6.1 Physical features of information carrier

Operating System

MS-DOS or PC-DOS

Writing method Single/double sided

Writing density

3 ½": 720 Kb (DD) or 1.44 Mb (HD) 5 ¼": 360 Kb (DD) or 1.2 Mb (HD)

Alphabet

ASCII

Structure

One physical file per disk

Info length

50

6.2 Rules for writing

- Only the root directory may be used. The use of sub-directories is not permitted.
- The records must be unblocked within the files.
- The records must be separated from each other by means of two special codes, i.e.:

CR (Carriage Return, represented by the ASCII code 13) and LF (Line Feed, represented by ASCII code 10). In general, this coding will be carried out by the Operating system PC-/MS-DOS, if the file is created 'sequentially'.

6.3 Root directory classification

Positions	Contents
1 - 8	Name of the file (Contents 'CLIEOP03')
9 - 11	Expansion of the file name. Can be chosen freely.
12	File attribute. Only the following values or combinations
	thereof are permitted:
	Hexadecimal 00 ('no' attribute)
	Hexadecimal 01 (ReadOnly attribute)
	Hexadecimal 20 (Archive attribute)
	Hexadecimal 40 (no meaning)
	Hexadecimal 80 (no meaning)
13 - 23	Filler

7 Specification of 8 inch disk

7.1	Physical features of information carrier	7.3	Label s	tructure
	Structure			
	One physical file per disk			DISK
	Writing method			
	single/double sided		г——	
		г -	VOL1	
	Writing density		HDR1	2010 000023
	single/double density			
	Alphabet			
	EBCDIC	7.4.	Label c	lassification
	Info length	7.4.1	Volume la	ibel (Sector 07 from track 00)
	50			
		Positions	Contents	
	Sector length			
	128/256 bytes	1 - 4	VOL1	
		5 - 71	Reserve	
		72	Indicates t	he type of disk:
7.2	Rules for writing		Possible va	alues:
			space	single sided, single density
	Records are written away sequentially, one after another.			(Basic Data Exchange)
			2	double sided, single density
	Interpay accepts 8 inch disks which have been formatted in the			(Basic Data Exchange)
	following manner:		Μ	double sided, double density
				(Type H Data Exchange)
	Basic Data Exchange protocol	73 - 75	Reserve	
	single sided	76	Indicates t	he length of the physical record (sector)
	single density		Possible va	alues:
	128 bytes per sector		space	128 bytes (Basic Data Exchange)
			1	256 bytes (Type H Data Exchange)
	Basic Data Exchange protocol	77 - 79	Reserve	
	double sided	80	Indicates t	he standard according to which the labels have been
	single density		written.	
	128 bytes per sector		Possible va	alues:
			W	IBM standard labels
	Type H Data Exchange protocol	81 - 128	Reserve	
	double sided			
	double density			
	2E4 bytes per center			

256 bytes per sector

7.4.2 Data set table (Sector 08 from track 00)

Positions	Contents		
1 - 4	HDR1		
5	Reserve		
6 - 13	Contains 'CLIEOP03'		
14 - 24	Reserve		
25 - 27	Indicates the maximum number of characters per block		
	Possible values:		
	128 (Basic Data Exchange)		
	256 (Type H Data Exchange)		
28	Reserve		
29 - 33	Address of the first sector of the data set. Built up as nn0mm		
	(nn = track number, zero, mm = sector number)		
34	Reserve		
35 - 39	Address of the last sector of the data set.		
	Built up as nn0mm (nn = track number, zero, mm = sector		
	number)		
40 - 43	Reserve		
44	Indicates the protocol according to which the disk has been		
	written on		
	Possible values:		
	space (Basic Data Exchange)		
	H (Type H Data Exchange)		
45 - 74	Reserve		
75 - 79	Address of the first free sector.		
	Built up as nn0mm (nn = track number, zero, mm = sector		
	number)		
80 - 128	Reserve		

8 Delivery via datacommunication

8.1 You want to deliver via datacommunication

If you want to deliver your instructions to Interpay via data communication, you will find further details in the brochure "Payment and receipt via data communication" (BGC 5.1783). You can obtain this brochure from your bank.

8.2 The BankGiroDatacom System

If you deliver your instructions to Interpay via datacommunication, you can make use of the

BankGiroDatacom System (BDS). If you do not make use of the PC software package BGCom, it is necessary to indicate source attributes. When sending in batches the source attributes 'application' and 'classification' must be used to indicate what the intended application of the batch is and which classification it is based on. The application and classification codes are set out below.

Application	Classification	Application	Classification
Name	Code	Name	Code
Business payments	17	CLIEOP	04
Instruction letter for business payments	18	LETTERRECORD	01
Direct debit	19	CLIEOP	04
Instruction letter for direct debit	20	LETTERRECORD	01

NB: Uncompleted fields and fillers at the end of a record need not be sent.

Electronic instruction letter via datacommunication

8.3

In order to send instruction letters to Interpay via datacommunication, a batch must be generated with a 'letterrecord' per batch in accordance with the classification below. This batch can then be sent to Interpay in the same manner as the batches with payment data. For business payments you must also send a (written) instruction letter to your bank.

8.3.1 Classification of 'letterrecord

Name	Form	Contents
Letter record		
Record code	x(6)	KAD091
Name transaction code	x(18)	
Total amount	9(13)	
Instructing party account number	9(10)	
Total account numbers	9(5)	
Number of transactions	9(6)	
Batch reference	x(6)	
Required processing date	9(6)	yymmdd
Batch medium	x(18)	
Currency	x(3)	

The records must be closed with CR (Carriage Return) and LF (Line Feed), the file must be closed with an EOF (End of File) Marker.

8.3.2 Field description of 'letterrecord'

Number of transactions

The number of transactions in the batch.

Batch medium

The medium on which the instructions are delivered to Interpay. Permitted values: DATACOM, TAPE, CARTRIDGE, DISK8, DISK5.25, DISK3.5.

Batch reference

Identifies the batch: the first 2 or 3 positions of the user name, followed by a unique sequential number of 4 or 3 positions.

Currency

Indicates the currency contained in the batch. EUR euro NLG guilder

Required processing date

Date on which the batch must be processed by Interpay.

Name of transaction code

Indicates what type of transactions the batch contains. Values:CREDBETcreditor paymentsSALARISsalary paymentsINCASSOdirect debit

Record code

Identifies the record.

Instructing party's account number

Contains the account number of the client giving the instructions for the batch.

Total amount

The total of the amount fields in this batch.

Total account numbers

The total of the **payee's account number** and **payer's** account number fields in this batch.

9.1 Objective of the test

Before sending in direct debit or business payment instructions using the new classification a test must be carried out. The purpose of this test is to determine whether the technical and procedural guidelines have been interpreted entirely correctly. Any corrections can then be made before the actual instructions are given.

9.2 Test sets

Special test sets are available to test the classification. These sets contain a manual, an instruction letter and a cancellation instruction. You can obtain the sets from the bank. There are test sets for payment instructions and direct debit instructions.

10 Changes compared to the ClieOp 02 classification

If you deliver direct debit or business payment instructions via the ClieOp 02 classification it is important that you know what changes to implement.

The ClieOp 03 file classification has undergone the following changes compared to the previous version:

- In the file header info the file name has become "CLIEOP03"
- In the *batch header info* the **variant code** has been changed to "B" and the field **delivery currency** has been added
- The **Total amount** in the *batch close info* now covers 13 positions
- Reserved records have been removed from the structure schedule for security reasons
- The fields Batch medium and Currency have been added to the electronic instruction letter