

# System Specification OCR giro

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## 1 Adjustment and clearing of fields

Unless otherwise specified, the following rules apply for all fields:

Alphanumeric fields:

- Data will be left-aligned
- Empty positions should be blanked

Numeric fields:

- Data will be right-aligned
- Empty positions should be filled in with zeros.

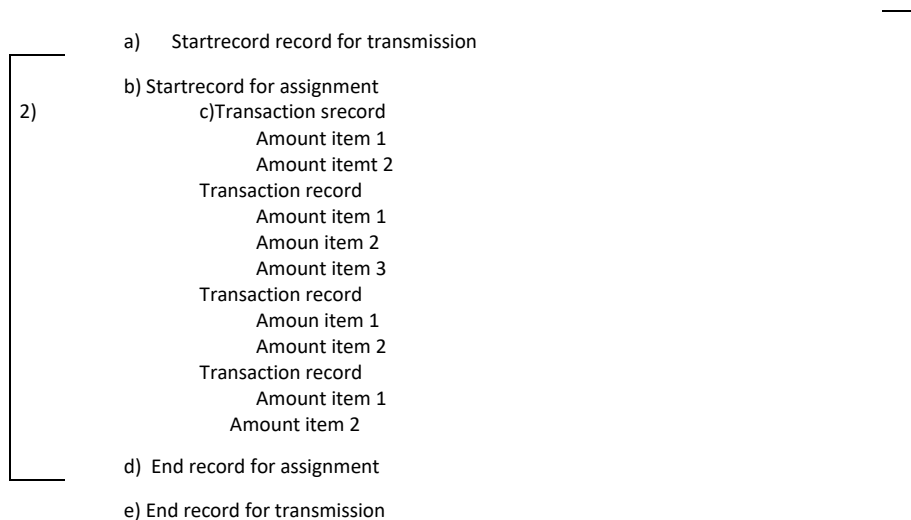
## 2 Record types, record layout and entering data

Transmissions from Nets must always start with:

- A. START RECORD FOR TRANSMISSION
- B. START RECORD FOR ASSIGNMENTS
- C. TRANSACTION RECORD (containing amount items 1 and 2)
- D. END RECORD FOR ASSIGNMENT
- E. END RECORD FOR TRANSMISSION

A transmission can contain assignments for several services for the same data recipient (per customer unit ID).

One assignment can only contain transactions for a single-service-type assignment and one and the same bank account.



Filling out the first four fields of a transaction identifies the transaction.  
The overview below shows the current records with the respective codes:

Record	Format	Service	Transmission/ Assignment/ Transaction type	Recordtype
Startrecord transmission	NY	00	00	10
Startrecord assignment for OCR data	NY	09	00	20
Transaction record	NY	09	Transaction type; 10,11,12,13,14,15,16,17,18,19,20,21	30
Amount item 1				31
Amount item 2				32
Amount item 3 (even tents)				
End record assignment for OCR data	NY	09	00	88
Endrecord transmission	NY	00	00	89

### Information transactions from terminals and internet-payments collected through Nets.

In addition to payments from giro and electronic payments with KID, assignments can also have information transactions from terminals and internet-payments collected through Nets. The payee can use this information for updating the customer system.

Information transactions from terminals have these transaction types:

- Reversing with KID - 18 (one-eight)
- Purchase with KID - 19 (one-nine)
- Reversing with free text - 20 (two-zero)
- Purchase with free text - 21 (two-one)

For information transactions with type 20 and 21 (contains free text), there will be 3 amount items per transaction record.

## 2.1 STARTRECORD FOR TRANSMISSION

The first record in every transmission.  
The record can only occur once per transmission.

FIELD	1	2	3	4	5	6	7	8
FIELD NAME	FORMAT CODE	SERVICE CODE	TRANSM. TYPE	RECORD TYPE	DATA-TRANSM	TRANSM. NUMBER	DATA-RECIPIENT	FILLER
POS.	1 - 2	3 - 4	5 - 6	7 - 8	9 - 16	17 - 23	24 - 31	32 - 80

#### FIELD 1 - FORMAT CODE

- Alphanumeric, 2 positions
- Always = NY (Norwegian for "new")

#### FIELD 2 - SERVICE CODE

- Numeric, 2 positions
- Always = 00 (zero-zero)

**FIELD 3 - TRANSMISSION TYPE**

- Numeric, 2 positions
- Always = 00 (zero-zero)

**FIELD 4 - RECORD TYPE**

- Numeric, 2 positions
- Record type start transmission always = 10 (one-zero)

**FIELD 5 - DATA TRANSMITTER**

- Numeric, 8 positions
- Is filled in with Nets' ID = 00008080

**FIELD 6 - TRANSMISSION NUMBER**

- Numeric, 7 positions
- Is filled in with serial numbers generated by Nets.

**FIELD 7 - DATA RECIPIENT**

- Numeric, 8 positions
- Is filled in with data recipient's CUSTOMER UNIT ID.

**FIELD 8 - FILLER**

- Numeric, 49 positions
- Is filled in with zeroes

## 2.2 START RECORD FOR ASSIGNMENT

The first record for every assignment in the transmission. The record can only occur per assignment

FIELD	1	2	3	4	5	6	7	8
FIELD NAME	FORMAT CODE	SERVICE CODE	ASSIGNMENT TYPE	RECORD TYPE	AVTALE ID	AGREEMENT ID	ASSIGNMENT ACCOUNT	FILLER
POS.	1 - 2	3 - 4	5 - 6	7 - 8	9 - 17	18 - 24	25 - 35	36 - 80

**FIELD 1 - FORMAT CODE**

- Alphanumeric, 2 positions
- Always = NY (Norwegian for "new")

**FIELD 2 - SERVICE CODE**

- Numeric, 2 positions
- OCR giro service code always = 09 (zero-nine)

**FIELD 3 - ASSIGNMENT TYPE**

- Numeric, 2 positions
- Always = 00 (zero-zero)

**FIELD 4 - RECORD TYPE**

- Numeric, 2 positions
- Record type start assignment always = 20 (two-zero)

**FIELD 5 – AGREEMENT ID**

- Numeric, 9 positions
- Is filled in with registered AGREEMENT ID issued by Nets, for the assignment account.

**FIELD 6 - ASSIGNMENT NUMBER**

- Numeric, 7 positions
- Is filled in with serial number accumulated per assignment in the transmission.

**FIELD 7 - ASSIGNMENT ACCOUNT**

- Numeric, 11 positions
- Is filled in with the payee's (agreement's) account number.

**FIELD 8 - FILLER**

- Numeric, 45 positions
- Is filled in with zeroes

**2.3 TRANSACTION RECORD**

A valid OCR transaction consist of booth an amount 1 item and amount 2 (for transaction type 20 and 22 there will be additional amount item 3)

**2.3.1 AMOUNT ITEM 1**

FIELD	1	2	3	4	5	6	7	8
FIELD NAME	FORMAT CODE	SERVICE CODE	TRANS TYPE	RECORD TYPE	TRANS NR	NETS DATE	CENTRE ID	DAY CODE
POS.	1 - 2	3 - 4	5 - 6	7 - 8	9 - 15	16 - 21	22 - 23	24 - 25

FIELD	9	10	11	12	13	14	15
FIELD NAME	PARTIAL SETTLEMENT NUMBER	SERIAL NUMBER	SIGN	AMOUNT	KID	FILLER	FILLER
POS.	26	27 - 31	32	33 - 49	50 - 74	75 - 80	77 - 80

**FIELD 1 - FORMAT CODE**

- Alphanumeric, 2 positions
- Always = NY (Norwegian for "new")

**FIELD 2 - SERVICE CODE**

- Numeric, 2 positions
- OCR giro service code always = 09 (zero-nine)

**FIELD 3 - TRANSACTION TYPE**

- Numeric, 2 positions
- Valid transaction types for the OCR giro service:

- Transaction from giro debited account - 10
- Transaction from standing orders - 11
- Transaction from direct remittance - 12
- Transaction from BTG (Business Terminal Giro)- 13
- Transaction from counter giro - 14
- Transaction from AvtaleGiro - 15
- Transaction from Telegiro - 16
- Transaction from giro - paid in cash - 17
- Transaction from terminal and internet-payments:
- Reversing with KID -18
- Purchase with KID -19
- Reversing with free text -20
- Purchase with free text -21

**FIELD 4 - RECORD TYPE**

- Numeric, 2 positions
- Record type for amount item 1 always = 30 (three-zero)

**FIELD 5 - TRANSACTION NUMBER**

- Numeric, 7 positions
- Is filled in by Nets with the serial number accumulated per transaction in the assignment.

FIELD 6 - Nets-DATE

- Numeric, 6 positions
- Is filled in with Nets processing date, DDMMYY (day, month, year) for the transaction

FIELD 7 - CENTRE ID

- Numeric, 2 positions
- Is filled out by Nets and contains the first two positions in the identification number of the bank data centre to which the transaction was transferred

FIELD 8 - DAY CODE

- Numeric, 2 positions
- Is filled out by Nets and contains the day of the month when the transaction was processed, the numbers run from 01 to 31.

FIELD 9 - PARTIAL SETTLEMENT NUMBER

- Numeric, 1 position
- Is filled out by Nets and contains the number of the partial settlement in which the transaction was processed.
- For transaction type 18, 19, 20 and 21, the field will be filled in with 0 (zero)

FIELD 10 - SERIAL NUMBER

- Numeric, 5 positions
- Is filled in with serial number within the partial settlement

The sum of all transactions with the same serial number is specified

on the bank statement.

FIELD 11 - SIGN

- Numeric, 1 position
- Is filled in with “-“ (negative sign) if receiver is able to process a credit note electronic in the account current book (conditional, depends on OCR agreement)
- Is filled in with zeroes if receiver is not able to process a credit note electronic in the account current book (conditional, depends on OCR agreement)

FIELD 12 - AMOUNT

- Numeric, 17 positions
- The amount is specified in øre (one øre = NOK 0.01)

FIELD 13 - KID

- Alphanumeric, 25 positions
- The field contains the payee's "KID" (customer identification) including the verification digit and without special characters.
- The "KID" is right- aligned and any empty positions are blanked. The "KID" cannot contain letters of the alphabet.

FIELD 14 - FILLER

- Numeric, 6 positions
- Is filled in with zeroes.

**Sorting sequence**

The transactions are sorted ascendingly on Nets date.

### 2.3.2 AMOUNT ITEM 2

FIELD	1	2	3	4	5	6	7	8	9
FIELD NAME	FORMAT CODE	SERVICE CODE	TRANS TYPE	RECORD TYPE	TRANS NUMBER	FORM NUMBER	AGREEMENT/ ARCI VE REFERENCE.	FILLER	BANK DATE
POS.	1 - 2	3 - 4	5 - 6	7 - 8	9 - 15	16 - 25	26 - 34	35 - 41	42 - 47

FELT	10	11
FELT NAVN	DEBIT ACCOUNT	FILLER
POS.	48 - 58	59 - 80

#### FIELD 1 - FORMAT CODE

- Alfa numeric, 2positions
- Always = NY

#### FIELD 2 - SERVICE CODE

- Numeric, 2positions
- OCR giro service code always = 09 (zero-nine)

#### FIELD 3 - TRANSACTION TYPE

- Numeric, 2positions

#### Valid types of transactions for OCR giros:

Transaction from giro debited account	- 10
Transaction from standing orders	- 11
Transaction from direct remittance	- 12
Transaction from BTG (Business Terminal Giro)	- 13
Transaction from counter giro	- 14
Transaction from AvtaleGiro	- 15
Transaction from Telegiro	- 16
Transaction from giro - paid in cash	- 17
Transaction from terminal and internet-payments:	
Reversing with KID	-18
Purchase with KID	-19
Reversing with free text	-20
Purchase with free text	-21

#### FIELD 4 - RECORD TYPE

- Numeric, 2 positions
- Record type for amount item 2 always = 31 (three-one)

#### FIELD 5 - TRANSACTION NUMBER

- Numeric, 7 positions
- Transaction number from amount item 1.

#### FIELD 6 - FORM NUMBER

- Numeric, 10 positions
- If the giro was debited in a bank the field will contain the form number on the giro.
- For standing order transactions, the field will be filled in with the type of form and zeroes.
- For other transaction the field will be filled in with zeroes.

#### FIELD 7 – AGREEMENT- ID/ARCHIVE REFERENCE

- Numeric, 9 positions
- In transactions from direct remittance, the field will contain the payer's AGREEMENT ID in Nets.
- In transactions from BTG (BTG = Corporate Terminal Giro) and standing orders, the field will contain the ARCHIVE REFERENCE from the input to Nets.
- In transactions from form, the field will contain the ARCHIVE REFERENCE in Nets.



- For transactions with transaction type 18, 19, 20 and 21, this will consist of bax- Number (6 digits) and session number (3 digits).

**FIELD 8 - FILLER**

- Numeric, 7 positions
- The field is filled in with zeros.

**FIELD 9 - BANK DATE**

- Numeric, 6 positions
- The field is filled in the DDMMYY (day, month, year)

**FIELD 10 - DEBIT ACCOUNT**

- Numeric, 11 positions
- The payer's bank account, if known, is entered here. Otherwise the field is filled in with zeros.
- For transactions with transaction type 18, 19, 20 and 21, the field is always filled in with zeros.

**FIELD 11 - FILLER**

- Numeric, 22 positions
- The field is filled in with zeroes

**2.3.3 AMOUNT ITEM 3**

- WILL ONLY OCCUR AT TRANSACTION TYPES 20 AND 21

FIELD	1	2	3	4	5	6	7
FIELD NAME	FORMAT CODE	SERVICE CODE	TRANS TYPE	RECORD TYPE	TRANS NUMBER	FREETEXT MESSAGE	FILLER
POS.	1 - 2	3 - 4	5 - 6	7 - 8	9 - 15	16 - 55	56 - 80

**FIELD 1 – FORMAT CODE**

- Alphanumeric, 2 positions
- Always = NY (Norwegian for "new")

**FIELD 2 – SERVICE CODE**

- Numeric, 2 positions
- OCR giro always service code = 09 (zero-nine)

**FIELD 3 – TRANSACTION TYPE**

- Numeric, 2 positions
- Valid transactions types OCR giro are:
  - Transaction from terminal and internet payment collected through Nets
    - Reversing with free text - 20 (to-null)
    - Purchase with free text - 21 (to-en)

**FIELD 4 – RECORD TYPE**

- Numeric, 2 positions
- Record type amount item 2 always = 32 (three-two)

**FIELD 5 – TRANSACTION NUMBER**

- Numeric, 7 positions
- Transaction number from amount item 1 and 2.

**FIELD 6 – FREE TEXT MESSAGE**

- Alphanumeric, 40 positions.
- Contains a free text message sent from the payment terminal.

**FIELD – FILLER**

- Numeric, 25 positions
- Is filled in with zeros.

## 2.4 END RECORD FOR ASSIGNMENT

The last record for every assignment in the transmission.

The record can only occur once per assignment

FIELD	1	2	3	4	5	6	7	8
FIELD NAME	FORMAT CODE	SERVICE CODE	ASSIGNM TYPE	RECORD TYPE	NUMBER TRANCE	NUMBER RECORD	TOTAL AMOUNT	NETS DATE
POS.	1 - 2	3 - 4	5 - 6	7 - 8	9 - 16	17 - 24	25 - 41	42 - 47

FELT	9	10	11
FELT NAVN	EARLIES NETS DATE	LATEST NETS DATE	FILLER
POS.	48 - 53	54 - 59	60 - 80

**FIELD 1 - FORMAT CODE**

- Alphanumeric, 2 positions.
- Always = NY (Norwegian for "new").

**FIELD 2 - SERVICE CODE**

- Numeric, 2 positions
- The OCR giro service code always = 09 (zero-nine)

**FIELD 3 - ASSIGNMENT TYPE**

- Numeric, 2 positions
- Is filled in with zeroes

**FIELD 4 - RECORD TYPE**

- Numeric, 2 positions
- Record type end assignment = 88 (eight-eight)

**FIELD 5 - NUMBER OF TRANSACTIONS**

- Numeric, 8 positions
- Specifies the number of transactions in the assignment.  
(Amount item 1 + amount item 2 + amount item 3 (if used) = a transaction).

**FIELD 6 - NUMBER OF RECORDS**

- Numeric, 8 positions
- Specifies the total number of items/records in the assignment, including the assignment's start record and the end record.

**FIELD 7 - TOTAL AMOUNT**

- Numeric, 17 positions
- Specifies the sum of all the transactions in the assignment (field 12 in amount item 1).
- (Amount from revisions, transaction type 18 and 20, are also added to the sum amount. Is not deducted.)
- The amount is specified in øre. (one øre = NOK 0.01)

**FIELD 8 - Nets-DATE**

- Numeric, 6 positions
- The field contains the date when the assignment was generated in Nets. Is filled in with DDMMYY

**FIELD 9 - EARLIEST Nets DATE**

- Numeric, 6 positions
- Earliest Nets processing date for transactions in the assignment.

**FIELD 10 - LATEST Nets-DATE**

- Numeric, 6 positions
- Latest Nets processing date (DDMMYY) for transactions in the assignment.

**FIELD 11 - FILLER**

- Numeric, 21 positions
- The field is filled in with zeroes.

## 2.5 END RECORD FOR THE TRANSMISSION

The last record in the transmission.  
The record can only occur once per transmission.

FIELD	1	2	3	4	5	6	7	8	9
FIELD NAME	FORMAT CODE	SERVICE CODE	TRANSMISSION. TYPE	RECORD TYPE	NUMBER OF TRANC	NUMBER OF RECORDS	TOTAL AMOUNT	NETS DATE	FILLER
POS.	1 - 2	3 - 4	5 - 6	7 - 8	9 - 16	17 - 24	25 - 41	42 - 47	48 - 80

**FIELD 1 - FORMAT CODE**

- Alphanumeric, 2 positions
- Always = NY (Norwegian for "new")

**FIELD 2 - SERVICE CODE**

- Numeric, 2 positions
- Always = 00 (zero-zero).

**FIELD 3 - TRANSMISSION TYPE**

- Numeric, 2 positions
- Always = 00 (zero-zero)

**FIELD 4 - RECORD TYPE**

- Numeric, 2 positions
- Record type end transmission = 89 (eight-nine)

**FIELD 5 - NUMBER OF TRANSACTIONS**

- Numeric, 8 positions
- Specifies the number of transactions in the transmission
- (Amount item 1 + amount item 2 + amount item 3 (if used) = a transaction).

**FIELD 6 - NUMBER OF RECORDS**

- Numeric, 8 positions
- Specifies the number of items/records in the transmission, including the assignment's start and end record, and the start and end record for the transmission.

**FIELD 7 - TOTAL AMOUNT**

- Numeric, 17 positions
- Specifies the total amount of all the transactions in the transmission.
- The amount is specified in øre. (one øre = NOK 0.01)

FIELD 8 - Nets DATE

- Numeric, 6 positions.
- The field contains the date the transmission was generated in Nets.
- Is filled in with the DDMMYY (day, month, year).

FIELD 9 - FILLER

- Numeric, 33 positions
- The field is filled in with zeroes.

### 3 APPROVED, PROCESSED TRANSACTIONS

Example file;

```

***** TOP OF DATA *****
NY000010000080800170031000102000000000000000000000000000000000000000000000
NY09002000176767600000019999111111100000000000000000000000000000000000000000
NY091030000000124030401241123450000000000000044000    33000083672049000000
NY091031000000160004322610945611540000000230304888810111280000000000000000000
NY0910300000002240304012411234500000000000008000    33000158843046000000
NY091031000000260004336509445521200000002303048888101113600000000000000000000
NY0910300000003240304012411234500000000000015000    33000163680003000000
NY0910310000003600043325109658885100000002303048888101114400000000000000000000
NY0910300000004240304012411234500000000000015000    33000164573025000000
NY0910310000004600043361409456665400000002303048888101115200000000000000000000
NY0910300000005240304012411234500000000000035000    33000167698019000000
NY0910310000005600043367109451416100000002303048888101115200000000000000000000
NY0910300000006240304012411234500000000000016000    33000170130034000000
NY0910310000006600043221609814541100000002303048888101116000000000000000000000
NY0910300000007240304012411234500000000000012000    33000173783060000000
NY0910310000007600043216509554512200000002303048888101117900000000000000000000
NY0913300000008240304012496789000000000000090000    01000000258037000000
NY0913310000008000000000006001011400000002403048888101118700000000000000000000
NY0913300000009240304012496789000000000000010000    01000000368026000000
NY09133100000090000000000061050113800000002403048888101118700000000000000000000
NY09133000000102403040124967890000000000000175000    01000000407048000000
NY09133100000100000000000060010114000000002403048888101118700000000000000000000
NY0913300000011240304012496789000000000000015000    01000000488022000000
NY09133100000110000000000061050113800000002403048888101118700000000000000000000
NY0913300000012240304012496789000000000000015000    01000000608025000000
NY091331000001200000000000610501138000000024030488881011187000000000000000000000
NY09133000000132403040124967890000000000000036000    01000000717040000000
NY091331000001300000000000600101140000000024030488881011187000000000000000000000
NY09133000000142403040124967890000000000000060000    01000000768035000000
NY091331000001400000000000610501138000000024030488881011187000000000000000000000
NY09133000000152403040124967890-00000000000025000    44000366370078000000
NY091331000001500000000000600101140000000024030488881011187000000000000000000000
NY09133000000162403040124967890-00000000000040000    44000366980090000000
NY091331000001600000000000600101140000000024030488881011187000000000000000000000
NY09133000000172403040124967890-00000000000015000    44000007860156000000
NY091331000001700000000000610501138000000024030488881011187000000000000000000000
NY0913300000018240304012496789000000000000030000    44000000380020000000
NY09133100000180000000000058020179300000000240304888810111950000000000000000000000
NY0913300000019240304012496789000000000000010000    44000000560084000000
NY09133100000190000000000058020179300000000240304888810111950000000000000000000000
NY0913300000020240304012496789000000000000015000    44000000640092000000
NY09133100000200000000000058020179300000000240304888810111950000000000000000000000
NY0913300000021240304012496789000000000000045000    44000000730042000000
NY09133100000210000000000058020179300000000240304888810111950000000000000000000000
NY0913300000022240304012496789000000000000075000    44000001060027000000
NY0913310000022000000000005986667840000000024030488881011101000000000000000000000000000
NY09133000000232403040124967890000000000000085000    44000001100070000000
NY0913310000023000000000005986667840000000024030488881011101000000000000000000000000000
NY090088000000230000004800000000001563000240304240304000000000000000000000000000000000000
NY000089000000023000000500000000001563000240304000000000000000000000000000000000000000000
***** BOTTOM OF DATA *****

```

## 4 Example på utregning av kontrollsiffer i modulus 10 og 11



### Modulus 10

Modulus 10 - Example:

Field without verification digit	1	2	3	4	5	6	7	8	
Weighting:	1	2	1	2	1	2	1	2	
Products:	1	4	3	8	5	12	7	16	
Sum of digits:	1	+4	+3	+8	+5	+1+2	+7	+1+6	=38
Verification digit	10	-8	=2						

Fields with verification digits 1 2 3 4 5 6 7 8 2. The digits in the field are multiplied by the weighting- numbers 2 1 2 1, **computed from right to left**.

PLEASE NOTE: According to this method one does not add the products, but rather the individual digits in the products. The product 12 thus contributes 1+2 to the sum of the digits. The single (last) digit in the sum of the digits (in this case 8) is subtracted from 10 thus giving the verification digit (in this case 2). If the single digit in the sum of the digits is 0, the verification number will be 0.

### Modulus 11

Modulus 11 - Example:

Field without verification digit	1	2	3	4	5	6	7	8		
Weighting:	3	2	7	6	5	4	3	2		
Products:	3	+4	+21	+24	+25	+24	+21	+16	=138	
Divisjon:	138	:11	=12	<u>And a rest of 6</u>						
Verification digit	11	-	6	=	5					

Fields with verification digits: 1 2 3 4 5 6 7 8 5

The digits in the field are multiplied with the weighting numbers 2 3 4 5 6 7 2 3 etc. **computed from right to left**.

The sum of the products (in this case 138) is divided by 11. The rest after the division (in this case 6) is subtracted from 11, and the result is the verification digit (in this case 5). If the division comes out even (rest = 0), the verification digit is 0.

If the verification digit is 10 (rest = 1) the verification digits must be replaced with a - (minus sign).

## 5 LOGG

VERS.	PKT.	BESKRIVELSE AV ENDRING	DATO	SIGN.
4.0	All over	Update all over	30-09-18	hha