

# The Report Designer for StoreHouse 4

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## 1. Common information

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- 1.1. The Report Designer is built in program of Store House 4.
  - 1.2. With its help it is possible to edit existing forms of reports or create new reports (documents and layouts).
  - 1.3. The Report Designer represents the popular application module «Fast Report» widely used for construction of various complexity of print forms of reports.
  - 1.4. To start Report Designer in SH4, it is necessary in SHSetup.exe select parameter «resolve the Report Designer». After that, Report Designer becomes accessible in SH.exe.
  - 1.5. Accordingly, it is necessary to know how to work, or something about how forms in this program are edited. The additional information on the given product («Fast Report») can be downloaded from the web site of its manufacturer <http://www.fast-report.com>.
  - 1.6. The information in the given manual is not full, but will be completely ready soon. It was published in this edition only because of the urgent request of our foreign colleagues. So, some errors are possible
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## 2. How to start Report Designer

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1. It is started SH4.
  2. We open the list of documents or the necessary report. Thus there is accessible button - "Preview". Having pressed its revealing list, it is possible to select the necessary printed form from the list accessible to the given document or report.
  3. The Same forms will be editable if we shall start \File\Report designer. Here it is possible to create absolutely new report, which then can be saved in this group of printed forms.
  4. Having started Report Designer it is necessary or to create the new form, or to open existing. By default, all forms of templates of printing placed in a working folder of SHouse 4 client - C:\UCS\SH4\RPT\\*.frf.
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## 3. For construction of reports in SH4

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### 3.1. Printing of attributes in reports

3.1.1. Use the following functions:

function	description	details
OPV (OA, A, 0)	Own accessories (are certain for any report)	where A - attribute
OPV (CA, A, RID)	Additional attributes of correspondents	where A - attribute, the RID-identifier of the correspondent
OPV (GA, A, RID)	Additional attributes of goods	where A - attribute, the RID-identifier of the goods
OPV (CHA, A, RID)	Additional attributes of sets headers	where A - attribute, the RID-identifier of sets header
OPV (DSA, A; S, RID)	Attributes of specifications of documents (numerical)	where A - attribute, S - type of the accounting (the 0 - account, 1 - special account), the I document

3.1.2. Examples:

3.1.2.1. for document attribute with number 100 for both accounts you can get with:

```
[IF (SysFlag=0, [OPV (DSA, 100; 0, [Specs. "Specs.105.1.1"])], [OPV (DSA, 100; 1, [Specs. "Specs.105.1.1"])])]
```

3.1.2.2. for correspondent attribute usage function will be like this:

```
[OPV(CA,$INN,[Header."Header.102.1.2"])]
```

3.1.2.2. where: \$INN - variable name (attribute); [Header."Header.102.1.2"] - correspondent RID .

### 3.2. Values of DocRec :: Type field - type of a document (see also sh\_tags.h)

- 0 – receiving report
- 4 – issue slip
- 5 – product subtraction
- 8 – collaton statement
- 10 – act of remaking
- 11 – internal transference
- 12 – complectation
- 13 – decomplexation

**Bit mask of document options DocRec:: Options (a set of the values incorporated on OR; see also sh\_tags.h)**

- 1 - the selector of the accounting type of a document (special accounting if bats 0 it is installed, differently - the normal accounting)
- 2 - a flag of activity (the document is active if bats 1 is installed)
- 4 - a tag of locking of a waybill (the waybill is locked by the user, created a documentl if bats - 2 is installed)
- 16 - a tag of link of a document with other documents (if bats 4 it is installed then document is generated automatically - modification of the list is inadmissible goods, dates, correspondents, currency and course of a waybill, a flag usages of mutual substitutions)
- 32 - a flag of usage of mutual substitutions - only complete sets (if bats 5 it is installed, that in a complete set the flag "is installed to use mutual substitutions")

**Bit mask of options of record of document DocSpecRec:: Options (see also sh\_tags.h)**

- 2 - record concerns to the active document (it can be invalid at editing a waybill)
- 4 - to use the rate for calculation of the tax 1 (VAT) (RR, IS. If value of the field – "Null" - the rate is used)
- 8 - to use the rate for calculation of the tax 2 (sales tax rates) (RR, IS. If value of the field – "null" - the rate is used)
- 16 - automatically to calculate the price of excesses (for inventory. If value "Null" - field the price settles up automatically); - to write off under the cost price (for issue slip)
- 32 - on the given record excesses/shortages (only inventarisation; it can be invalid at editing a document)
- 64 - it is used additional quantity for inventory (only inventarisation; it can be invalid at editing a document)

**Values of PDocRec :: Type field - type of the payment document (see also sh\_tags.h)**

- 0 – cash warrant
- 1 – account cash warrant
- 2 – payment commission
- 3 – account payment commission
- 4 – payment operation
- 5 – account payment operation

**Bit mask of options of payment document PDocRec:: Options (a set of the values incorporated on OR; see also sh\_tags.h)**

- 1 - document concerns to special accounting
- 2 – active document
- 4 - document is locked by the creator of the document
- 8 - automatically to calculate the sum of the payment document on the basis of the linked waybill
- 16 - a tag of link of the payment document with other documents (if bats 4 it is installed the payment document is generated automatically - modification of the list of the sums, currencies, course of a waybill is inadmissible)

**Types of classifications of reports gsfg... (see also sh\_tags.h)**

- 1 - on a tree of the goods
- 2 - on storages
- 3 - on goods categories
- 4 - on accounting categories
- 5 - under the bill-debit
- 6 - under the bill-credit

**Flags of reports drpt... (see also sh\_tags.h)**

- 0x1 - a tag of the accounting
- 0x2 - to show active documents, specifications
- 0x4 - to show inactive documents, specifications
- 0x8 - to calculate the sums
- 0x10 - to unite correspondents on AND (the list documents)
- 0x10 - to group on warehouses (the commodity report)
- 0x10 - to group on correspondents (the analysis of correspondents)
- 0x20 - to calculate the rests
- 0x40 - to show from what arrivals/on what expenditures it is subtracted
- 0x80 - to include the subtree of goods group
- 0x100 - only not empty queues Fifo
- 0x8 - to calculate numbers for created documents
- 0x10 - to block the created documents
- 0x20 - to use the filter by quantity
- 0x10 - in the book of sales to use at filtering date of a waybill

**The filter of the sum on specifications of bookkeeping operations of waybills dsf... (see also sh\_tags.h)**

- 0 - purchasing without taxes (arrival)
- 1 - the purchasing VAT (arrival)
- 2 - purchasing HCII (arrival)
- 3 - purchasing with taxes (arrival)
- 4 - purchasing without taxes (expenditure)
- 5 - the purchasing VAT (expenditure)
- 6 - purchasing HCII (expenditure)
- 7 - purchasing with taxes (expenditure)
- 8 - selling without taxes
- 9 - the selling VAT
- 10 - selling moneys HCII
- 11 - selling with taxes
- 12 - extra charge without taxes
- 13 - extra charge with taxes

**Parameters which are certain in any report**

"RptDate" - To print date of printing of the report (numerical significance): 0 - to not print, 1 - to print

"User" - the User name of the DB, connected to a server

"DbAlias" - the Name of a server

"FCaption" - Header of the form for which the report is called

"FVState" the State of the form for which the report (numerical significance) is called: 1 - it is not updated, 2 - it is updated, 4 - new (not saved), 16 - only for reading, 32 - the object displayed by the form, is remove.

"SysFlag" - Type of the account of the form (numerical significance): 0 - the account, 1 - special accounting, "-1" - does not support sharing under accounts.

"UDeport" - a storage certain for the user

"SumOpts" - the Bit mask of options of mapping of the sums for the account defined by printed form (numerical significance):

0x1 - to show purchase sum without taxes

0x2 - to show the purchasing VAT

0x4 - to show purchasing HCII

0x8 - to show purchase sum with taxes

0x10 - to calculate purchase price on the sum with taxes

0x100 - to show selling sum without taxes

0x200 - to show the selling VAT

0x400 - to show selling HCII

0x800 - to show selling sum with taxes

0x1000 - to calculate selling price on the sum with taxes

"BaseCurr" - the Code of a base currency

"OrgName" - the Name of the organization

"EntName" - the Name of firm

### Classes of additional parameters

"OA" - Own essential elements (are certain for any report)

"CA" - Additional attributes of correspondents (are certain in the form of a waybill, the form of the account/invoice)

"GA" - Additional attributes of correspondents (are certain in the form of a waybill, the form of the account/invoice)

### Additional parameters

"\$corr\_type" - type of the correspondent (only for a class "CA"): "0" - a storage, "1" - juridical person, "2" - natural person, "3" - special corr.

### List of currencies; Properties of currency

Report List of currencies (properties of currency)

100.1.0 - Key (Rid) currencies - internal key of currency.

100.2.0 - Properties of currency. If bats 0 it is installed, currency base. If bats "1" - is installed, the currency can be used for calculation in reports.

100.3.0 - Currency code (for example - "RBL"). It is used for identification of currency.

100.4.0 - Bank currency code (example, - "002").

100.5.0 - Name of currency (example, - "Russian ruble")

### Exchange rates

#### Params Filter

100.1.1 - Key (Rid) currencies

100.3.1 - Currency code (example, "RBL"). It is used for identification of currency

0.5.0 - Date of course with

0.6.0 - Date of course on

#### Report Courses

104.1.0 - Date of course

104.2.0 - Sum of a base currency

104.3.0 - Sum of currency for which the history of course is under construction

### List of correspondents, a card of the correspondent

#### Groups List of groups of correspondents (only the list of correspondents)

101.1.0 - Key (Rid) groups

101.1.2 - Link to a parent group (on Rid)

101.1.3 - Name of group

#### Report List of correspondents, a card of the correspondent

101.1.1 - Link to a parent group (on Rid in groups)

101.3.1 - Name of group to which possesses the correspondent (only a card of the correspondent)

102.1.0 - Key (Rid) the correspondent

102.2.0 - Type of the correspondent: 0 - storage, 1 - juridical person, 2 - natural person, 3 - special correspondent

102.3.0 - code of the correspondent

102.4.0 - name of the correspondent

102.5.0 - Internal number of a storage

#### Attrs Attributes of the correspondent (only a card of the correspondent)

111.1.0 - Numerical ID of the correspondent  
 111.5.0 - Name of attribute  
 0.1.0 - Significance of attribute

## Balance sheet

### Params      Filter

-----  
 Corresponds Params of remains sheet (see above), EXCEPT TWO FIELDS:

0.1.0 Date from  
 0.2.0 Date till

Groups List of groups for grouping

-----  
 Corresponds Groups of balance sheet (see above)

### Report      Report

-----  
 0.1.0 - Field of correspondence group (point on {0.1.0} from Groups)  
 . Key (Rid) of good  
 210.3.9 Text part of good's code  
 210.4.9 Numerical part of good's code  
 210.2.9 Title of the good  
 206.1.9 Key (Rid) of measure unit  
 206.2.9 Title of measure unit  
 0.2.N \* Quantity  
 0.3.N \* Sum w/t  
 0.4.N \* VAT  
 0.5.N \* ST  
 0.10.N \* Sum i/t

\* - N accepts following meanings:

0 - incoming remains  
 1 - receipts  
 2 - expenses  
 3 - r/p  
 4 - excess  
 5 - shortage  
 6 - outgoing remains

## Extended balance sheet

Analog of balance sheet, with the difference that N accepts following meanings:

0 - incoming remains  
 1 - receiving report  
 2 - issue slip  
 3 - return to supplier  
 4 - product subtraction  
 5 - collation statement - excess  
 6 - collation statement - shortage  
 7 - act of remaking  
 8 - internal transference  
 9 - complectation  
 10 - decomplexation  
 16 - outgoing remains

## Remains sheet, quantitative sheet of remains, remains on measure units, remains on benefit

### Params      Filter

-----  
 0.1.0 Date  
 0.3.0 Options of drpt report...  
 209.1.5 Key (Rid) of trade group  
 209.3.5 Title of trade group  
 208.1.8 Key (Rid) of good category  
 208.2.8 Title of good category  
 219.1.9 Key (Rid) of accounting category of goods  
 219.2.9 Title of accounting category of goods  
 102.1.6 Key (Rid) of stock  
 102.4.6 Title of stock  
 101.1.7 Key (Rid) of stock group  
 101.3.7 Title of stock group  
 1.1.0 After code of grouping type:  
 0 - do not group

- 1 – acc. Tree of goods
- 2 – acc. stocks
- 3 – acc. Trade categories
- 4 – acc. Accounting categories
- 1.2.0 Title of grouping type:
- 0.6.0 \* Comparison type of q-ty (<, >, etc.): bit 1 <, bit 2 ==, bit 3 >
- 0.7.0 \* What should compare the q-ty: 0 – with zero, 1 – with min reserve, 2 – with max reserve
- 100.1.4 \*\* Key (Rid) of currency, where to built report
- 100.3.4 \*\* Currency code, where to built report

## Groups List of groups for grouping

- 
- 0.1.0 Group identifier (for stocks – stock identifier, for other objects - key (Rid))
- 0.2.0 Additional parameter (for stocks - Rid, for tree of goods - Rid of parent, for other objects is not specified)
- 0.3.0 Title of group
- 0.9.0 Modified title of group (during grouping by tree)

## Report Report

- 
- 0.1.0 Correspondence field to group (indicate to {0.1.0} from Groups)
- 210.1.9 Key (Rid) of good
- 210.3.9 Text part of good's code
- 210.4.9 Numeric part of good's code
- 210.2.9 Name of good
- 206.1.9 Key (Rid) of measure unit
- 206.2.9 Name of measure unit
- 0.2.0 Quantity
- 0.3.0 \*\* Sum w/t
- 0.4.0 \*\* VAT
- 0.5.0 \*\* Sale tax
- 0.10.0 \*\* Price
- 0.11.0 \*\* Sum i/t
- 0.21.0 \*\*\* Min inventory
- 0.22.0 \*\*\* Max inventory
- 103.1.14 \*\*\*\* Key (Rid) of bill
- 103.10.14 \*\*\*\* Type of bill
- 103.4.14 \*\*\*\* Bill number – symbol part
- 103.5.14 \*\*\*\* Bill number – numeric part
- 103.14.14 \*\*\*\* Stamp of date of the bill
- 103.3.14 \*\*\*\* Date of bill
- 102.1.15 \*\*\*\* Key (Rid) of supplier
- 102.4.15 \*\*\*\* Supplier name
- 102.1.16 \*\*\*\* Key (Rid) of receiver
- 102.4.16 \*\*\*\* Receiver name
- 105.1.14 \*\*\*\* Remains on income

- \* - only remains sheet, quantitative remains sheet; comparison with quantity is fulfilled, when  
In the field {0.3.0} Params is fixed bit that corresponds the number 0x20;
- \*\* - only remains sheet, remains on benefits
- \*\*\* - only remains sheet, quantitative remains sheet
- \*\*\*\* - quantitative remains on benefits

## Bill

### Header Bill title

- 
- 103.1.1 Key (Rid) of bill
- 103.10.1 Type of bill DocRec::Type
- 103.11.1 Bite option mask of the bill DocRec::Options
- 103.2.1 Younger word of stamp of date of the bill
- 103.3.1 Date of the bill
- 103.4.1 Lined part of bill's number
- 103.5.1 Numeric part of bill's number
- 103.14.1 Date stamp of bill
- 103.12.0 Rate to basic currency (section "Rate: such amount of RBL for such amount of USD", only r/r, i/s)
- 103.13.0 Rate to currency of bill (section "Rate: such amount of RBL for such amount of USD", only r/r, i/s)
- 103.15.0 Comments
- 102.1.2 Key (Rid) of correspondent-supplier
- 102.4.2 Name of correspondent-supplier
- 102.1.3 Key (Rid) of correspondent-receiver
- 102.4.3 Name of correspondent-receiver
- 102.1.4 Key (Rid) of respon. person "Released"
- 102.4.4 Name of respon. person "Released"
- 102.1.5 Key (Rid) of respon. person "Received"
- 102.4.5 Name of respon. person "Received"
- 100.1.6 Key (Rid) of document currency
- 100.3.6 Code of document currency
- 100.6.6 Name of whole part of currency

100.7.6 Name of fractional part of currency  
 107.1.9 Key (Rid) of acc. operation  
 107.1.9 Lined part of no. of acc. operation  
 107.1.9 Numeric part of no. of acc. operation  
 107.1.10 Key (Rid) of invoice (only r/r, i/s, r/g)  
 107.4.10 Lined part of invoice (only r/r, i/s, r/g)  
 107.5.10 Numerical part of invoice (only r/r, i/s, r/g)  
 0.1.7 history: date of creation  
 0.2.7 history: date of creation in seconds  
 0.3.7 history: date of last change  
 0.4.7 history: date of last change in seconds  
 0.5.7 history: min date of active document  
 0.6.7 history: user that created bill

## Specs List of goods

-----  
 105.1.1 Key (Rid) of record  
 210.1.1 Key (Rid) of good  
 210.3.1 Text part of good's code  
 210.4.1 Numeric part of good's code  
 210.2.1 Name of good  
 206.1.1 Key (Rid) of measure unit  
 206.2.1 Name of measure unit  
 105.3.0 Quantity of goods  
 105.15.1 Record options DocSpecRec::Options  
 105.14.0 Alternative date for calculation the rate of non-basic currency (only r/r)  
 212.2.0 Rate/sum of VAT (depends upon DocSpecRec::Options)  
 213.2.0 Rate/sum of sale tax (depends upon DocSpecRec::Options)  
 105.3.14 Quantity of remains  
 206.2.14 Name of measure unit of remains  
 0.201.0 Line No. in bill  
 105.4.15 \* Prime cost: Sum w/t  
 105.5.15 \* Prime cost: VAT  
 105.6.15 \* Prime cost: Sale tax  
 105.7.15 \* Prime cost: Price  
 105.8.15 \* Prime cost: Sum i/t  
 105.4.0 Sum w/t  
 105.5.0 VAT  
 105.6.0 Sale tax  
 105.7.0 Price  
 105.8.0 Sum i/t  
 105.1.2 Key (Rid) of benefit for writing-off  
 103.3.2 Date of bill for writing-off (only p/s, r/g)  
 103.4.2 Lined part of bill no. For writing-off (only p/s, r/g)  
 103.5.2 Numeric part of bill no. For writing-off (только p/s, r/g)  
 103.11.2 Bit mask of options of the bill DocRec::Options for writing-off (только p/s, r/g)  
 103.10.2 Type of bill DocRec::Type for writing-off (только p/s, r/g)  
 210.1.6 Key (Rid) of good # 2 (only a/r)  
 210.3.6 Text part of good's code # 2 (only a/r)  
 210.4.6 Numeric part of good's code # 2 (only a/r)  
 210.2.6 Name of good # 2 (only a/r)  
 206.1.6 Key (Rid) of measure unit # 2 (only a/r)  
 206.2.6 Name of measure unit # 2 (only a/r)  
 105.3.7 Quantity of goods # 2 (only a/r)  
 200.1.1 Key (Rid) of set (only k, d/k)  
 200.2.1 Name of set (only k, d/k)  
 206.1.4 Key (Rid) of add. Measure unit (only c/s)  
 206.2.4 Name of add. measure unit (only c/s)  
 105.3.5 Add. Quantity (only c/s)  
 105.3.16 Calculated add. Quantity in c/s. (only c/s; specified, if add. measure unit is specified – better to use instead of 105.3.5 during printing)  
 105.7.17 Calculated price (only c/s)  
 212.2.17 Calculated VAT (only c/s)  
 213.2.17 Calculated sale tax (only c/s)

## Rpt2 Grps extended groups Detailed expense of completion,

-----  
 0.9.0 Name of group  
 105.1.1 Key (Rid) of record (for Rpt2 corresponds the field 105.1.1 in Specs – group identifier)  
 105.1.2 Reference on parent  
 210.1.1 Key (Rid) of good  
 210.3.1 Text part of good's code  
 210.4.1 Numerical part of good's code  
 210.2.1 Name of good  
 206.1.1 Key (Rid) of measure unit  
 206.2.1 Name of measure unit  
 105.3.0 Quantity of good in measure units of bill

Rpt1, Rpt2 Expense of completion, benefit of decompletionation (Rpt1);

-----Detailed expense of completion, benefit of decompletionation (Rpt2) – only c, d/c \*\*, \*\*\*

105.1.1 Key (Rid) of record (for Rpt2 corresponds the field 105.1.1 in Specs – group identifier)  
 210.1.1 Key (Rid) of good  
 210.3.1 Text part of good's code  
 210.4.1 Numeric part of good's code  
 210.2.1 Name of good  
 206.1.1 Key (Rid) of measure unit  
 206.2.1 Name of measure unit  
 105.3.0 Quantity of good  
 105.4.0 Sum w/t  
 105.5.0 VAT  
 105.6.0 Sale tax  
 105.7.0 Price  
 105.8.0 Sum i/t  
 102.1.1 Key (Rid) of stock  
 102.4.1 Name of stock

Rpt1, Rpt2 Excess of shortage, Excess of shortage by measure units (only c/s) \*\*\*

-----  
 105.1.5 Key (Rid) of pricing factor  
 210.1.5 Key (Rid) товара  
 210.3.5 Text part of good's code  
 210.4.5 Numeric part of good's code  
 210.2.5 Name of good  
 206.1.5 Key (Rid) of measure unit  
 206.2.5 Name of measure unit  
 105.3.0 Calculated quantity of good  
 105.4.0 Calculated sum w/t (only Rpt1)  
 105.5.0 Calculated VAT (only Rpt1)  
 105.6.0 Calculated sale tax (only Rpt1)  
 105.7.0 Calculated price (only Rpt1)  
 105.8.0 Calculated sum i/t (only Rpt1)  
 105.3.2 Actual quantity of goods  
 105.4.2 Actual sum w/t (only Rpt1)  
 105.5.2 Actual VAT (only Rpt1)  
 105.6.2 Actual sale tax (only Rpt1)  
 105.7.2 Actual price (only Rpt1)  
 105.8.2 Actual sum i/t (only Rpt1)  
 105.3.1 Quantity of excess/shortage  
 105.4.1 Sum w/t of excess/shortage (only Rpt1)  
 105.5.1 VAT of excess/shortage (only Rpt1)  
 105.6.1 Sale tax of excess/shortage (only Rpt1)  
 105.7.1 Price of excess/shortage (only Rpt1)  
 105.8.1 Sum i/t excess/shortage (only Rpt1)  
 102.1.5 Key (Rid) of stock  
 102.4.5 Name of stock

RptAccs Transactions on bills \*\*\*\*

-----  
 106.1.1 Key (Rid) of invoice-yield  
 106.3.1 Code of invoice-yield  
 106.1.2 Key (Rid) of invoice-credit  
 106.3.2 Code of invoice-credit  
 0.1.4 Sum  
 219.2.3 Acc. category  
 108.4.0 Operation description

RptPDocs List of payment documents, connected with bill (only r/r, i/s, r/g) \*\*\*\*\*

-----  
 112.1.9 Key (Rid) of payment documents  
 112.3.9 Date of payment documents  
 112.4.9 Lined part of no. of payment document  
 112.5.9 Numeric part of no. Of payment document  
 112.10.9 Type of payment document PDocRec::Type  
 112.11.9 Bit mask of options of payment documents PDocRec::Options  
 103.1.1 Key (Rid) of connected bill  
 107.1.3 Key (Rid) of acc. operation  
 107.2.3 Name of acc. operation  
 0.1.0 Sum w/t in basic currency  
 0.2.0 VAT in basic currency  
 0.3.0 Sale tax in basic currency  
 0.4.0 Sum i/t in basic currency

\* - add parameter "chkSums" to the model, then field of prime cost in the report will be specified;

\*\* - use Specs with key field 105.1.1 instead of group for Rpt2 m.

\*\*\* - if you want data for report Rpt1 to be loaded before printing, add parameter "chkRpt1" to the model;

- if you want data for report Rpt2 to be loaded before printing, add parameter "chkRpt2" to the model;

\*\*\*\* - if you want data for report RptAccs to be loaded before printing, add parameter "chkRptAccs" to the model;

\*\*\*\*\* - if you want data for report RptPDocs to be loaded before printing, add parameter "chkRptPDocs" to the model;