



XLOG Print Server Release 5.0



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History

Version	Date	Department	Modification	Author
01	1/28/2014	QA	Creation	LR
02	11/25/2014	QA	Modification of the term "Value" into the more explicit term "Weighting"	LR
03	12/22/2014	QA	Enhancement of print server with "Additional receipt/partial issue" tab	LR
04	2/5/2015	QA	Storing information about matrices per stock transaction	LR
05	2/19/2015	QA	Display of reference number in the Stock transactions and Parameter matrix screens	LR
06	3/10/2015	QA	Simulation function in editing parameter matrices via function key F11 Simulation. After you enter the stock transaction data, the parameter matrix relevant for this transaction is displayed.	LR

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0 Introduction

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0.1 About this document

This document has been written for:

- Users, who employ the functions of Xpert in their daily business
- All, who want to use the information system from Infor Xpert
- Those responsible for IT and organization, who are familiar with the administration and setup of the application system

Depending on to which of these target groups you belong, you will find the information especially important for you summarized in a separate section. The document is divided into the following three parts:

Operation	Information	Administration
<ul style="list-style-type: none"> • Function overview • Organization • Operations • Result 	<ul style="list-style-type: none"> • Display programs • Printing programs 	<ul style="list-style-type: none"> • Master data • Configuration • Texts • Auxiliary programs • Reorganization

An overview is provided in the introduction of the contents of the various sections and about the new features in this release.

You can find an index and a directory of figures in the Appendix.

SPECIAL SYMBOLS IN THIS MANUAL.

Various types of information are highlighted by symbols, so that you can find things you need to know quickly.



Important note

You can find tips here, which make your life easier.



Warning

Caution is advised here. Operation errors could result in instability or faulty data.



Operations

This section leads you step by step through the application until you have completed your task.



Settings

You can find references to parameters and options not only in the Administration section, with which the application and its requirements can be adapted.



Example

This section provides you with example data, calculations or typical procedures for your orientation.

0.2 Function overview

0.2.1 General information

The objective of the new **XLOG print server** is to standardize the logic, which controls which **documents** are to be printed for which stock transactions.

An editing program is available with Xpert 5.0, in which a **matrix** can be edited that sets the **parameters**, which determine which **document is to be printed for which stock transaction**.

Thanks to this new parameter matrix, the control of which documents are to be printed is simplified on one hand, because the corresponding conditions must only be managed centrally at one place, and on the other hand because the corresponding conditions can be set more precisely.

0.2.2 Area of application

With Xpert 5.0, documents are printed via the **print server** for stock transactions using the **general stock transaction program** (R4XLB0).



Previously, the **print server could only be used in connection with the general stock transaction program!**

Additional stock transaction programs will be integrated successively.



Document printing for the new **general stock transaction program must absolutely** be defined and set up via the **print server**. Previous control parameters and user/program parameters are no longer valid in this context!

0.2.3 Document printing program

All previously present document printing programs are covered by the print server.

- R4CL75 Print warehouse documents
- R4CL77 Print warehouse documents -PRINTRONIX-
- R4CM75 Print container label – IBM printer
- R4CM76 Print container label – *IPDS
- R4US55 Print container label – TLA

0.2.4 Definition of document types

The following document types can be printed via the print server:

Document type	Warehouse type	Application
Stock receipt document "Receipt"	All	Stock receipt to conventional, random access or container warehouses
Stock issue document "Issue"	All	Stock issue from conventional, random access or container warehouse
Stock transfer document	All	Transfers from one warehouse to another
Cancellation document	All	Cancellation of all stock transactions
Stock return transfer document	Random access and container warehouses	Repeated receipt of remaining parts into a container on partial issues
Additional stock receipt document	Random access and container warehouses	Stock receipt of parts into already present and populated containers.

Which "heading" is to be printed on the respective document can be defined via code table **P4 – Title texts for WH documents** in the matrix of the print servers both for the transaction and its cancellation.

The following title texts are available as starting point:

- 01 STOCK RECEIPT
- 02 STOCK ISSUE
- 03 STOCK TRANSFER
- 04 STOCK RETURN TRANSFER
- 05 ADDITIONAL STOCK RECEIPT
- 06 REPACKING
- 07 CANCELLATION

0.3 Conceptual notes

The matrix of the print server provides many options to adapt control of document printing individually to the respective requirements of **your company**.

Clear regulation and structuring of the document printing requirements of a company are basic prerequisites for the most possibly clear implementation of the requirements.



As **minimum prerequisites** for setting the print server, we urgently recommend establishing the following criteria for controlling document printing:

- **Weighting of parameters of parameter matrices**
- **Definition of parameters of parameter matrices**

0.3.1 Weighting of parameters of parameter matrices

Which parameter matrix is valid for the document printing of a stock transaction is defined via the **weighting** for the parameter matrix for this stock transaction.



For each individual parameter of a matrix such as Transaction type, Warehouse, Transaction codes, etc., the weighting, i.e., the priority for mapping the matrix for the respective stock transaction, is defined via control parameter **7007 Value for fields of the matrix print server**.

The parameter **Transaction type** mandatorily has the highest weighting 9999 and cannot be changed. Values between 0 and 9998 can be allocated for all other parameters. Depending on the weighting, the corresponding parameter is more or less important in determining the appropriate data record from the matrix for print control.

To determine the weighting of a **parameter matrix**, the weighting of each individual parameter of the matrix relevant to a stock transaction are added together. The parameter matrix with the **highest weighting** determines the type of document printing control.

**Example:**

Three different parameter matrices have been defined for document printing of the transaction type “**01 Stock receipts**”. The document printing program is called according to the entries in the warehouse master data.

Criterion	Weighting according to STWT	Parameter matrix 1	Parameter matrix 2	Parameter matrix 3
Transaction type	9999	01	01	01
Warehouse type	5000	*ALL	*ALL	*ALL
Transaction code	5000	*ALL	20	20
Warehouse	3000	*ALL	*ALL	L1
Container 2 type	2000	*ALL	*ALL	*ALL
Transfer warehouse	1000	*ALL	*ALL	*ALL
Stock location	1000	*ALL	*ALL	*ALL
Container type 1 (internal)	1000	*ALL	*ALL	*ALL
Container type 1	0500	*ALL	*ALL	*ALL
User	0500	*ALL	USER A	*ALL
WH zone (transfer)	0100	*ALL	*ALL	*ALL
Stock location type (transfer)	0100	*ALL	*ALL	*ALL
Application program	0100	*ALL	*ALL	*ALL
Warehouse zone	0050	*ALL	*ALL	*ALL
Stock location (transfer)	0000	*ALL	*ALL	*ALL
Container 2 type (internal) (transfer)	0000	*ALL	*ALL	*ALL
Container 2 type (internal)	0000	*ALL	*ALL	*ALL
Container 1 type (internal) (transfer)	0000	*ALL	*ALL	*ALL
Container 1 type (transfer)	0000	*ALL	*ALL	*ALL
Total weighting of parameter matrix		9999	15499	17999

The user with the name “**USER A**” performs a stock receipt with transaction code “**20**” to the warehouse “**L1**”. In this case, the document printing is controlled via **parameter matrix no. 3**, because this record has the highest value for this stock transaction. The criterion warehouse is rated with higher priority (weighting) than the criterion user.

If “**USER A**” performs a transaction with TC “20” to a warehouse other than “L1”, “parameter matrix 2” is used.

0.3.2 Definition of parameters of parameter matrices

After the weighting of individual parameters is defined, you must determine which parameter matrices are required for covering individual document printing requirements.

The issues listed in the following are meant to support you in designing the parameter matrices and definition of the respectively required parameters per parameter matrix:

- **Definition of document printouts per transaction type**
 - o Which document printing programs are used depending on which parameters?
- **Printing program:**
 - o Control of the document printing program based on the warehouse master data or individually per parameter matrix?
- **Differentiation of document printing according to**
 - o TRCD?
 - o Warehouse kind?
 - o Warehouse/transaction warehouse?
 - o User?
 - o Other parameters?
- **Container tracking**
 - o Document printing for CT1, CT1/CT2?
 - o Document printing for containers to be defined specially?
 - o Document printing depending on internal containers?
 - o Document printing on receipt?
 - o Document printing on partial issue?
- **Document printing in random access warehouses**
 - o Differentiated according to warehouse zone or stock locations?
- **Document printing on goods receipt or partial issue in container or random access warehouses?**

A matrix for defining the parameter matrices can initially look like this.

Parameter matrix (sorted by weighting)	Parameter matrix 1	Parameter matrix 2	Parameter matrix 3	Parameter matrix n
Transaction type	01- Stock receipt	02 Stock issue	...
Warehouse type				
Warehouse				
User				

...				
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1 Operation

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1.1 Editing parameter matrices

1.1.1 Initial screen

Menu call of XLOG print server:

Warehouse management → **Warehouse organization** → **Document printing control**
(edit parameter matrix)

or

System administration → **System setup** → **Print management** → **Document printing control** (edit parameter matrix)

After you call the menu item, you access the **Document printing control** (edit parameter matrix) screen.

The standard setup for document printing is displayed at initial installation of the print server. Parameter matrices exist here for the following **transaction types** (XLPS – XLOG Print server file):

- **Stock receipt**
- **Stock issue**
- **Stock transfer**

The following default parameterization exists for these:

- A stock transaction document is created on each stock receipt, issue or transfer based on the **document printing program** stored in the **warehouse master data**.
- In container or random access warehouses, the documents are printed both for **containers 1** and **containers 2** if **USR0233 Display form CT1/CT2 in XLOG = 1 – Flexible container concept**. If you work with the **static container concept** (USR0233 = 0), documents are only printed for **single containers 1** or **containers 2**.
- Documents are printed for transaction and transfer warehouses when there are **stock transfers**.
- In the case of **additional stock receipts**, documents are printed for the **newly** received quantity in the container after the transaction.
- On partial issues from containers, a **return transfer document** is printed for the container remaining in the warehouse with the respectively remaining quantity.

The existing parameter matrices can be modified or deleted or new ones can be created if required.




To be able to understand which matrix was used at a stock transaction, the **Reference number** of the respective matrix is stored and additionally displayed in the stock transactions screen.

Only active parameter matrices or both active and inactive parameter matrices can be displayed via the checkbox **Active**.

In addition, you can filter the display of existing parameter matrices via the **selection fields** of the tabs **Selection 1** and **Selection 2**.

The following function keys are available:

Function key	Description	Description
F5	Update	Update display after initial creation of parameter matrices
F6	Create 	Create parameter matrices This can be deactivated via the parameter Creation permitted (BBPA02) of the R4XLP0 program. If creation is not permitted, existing records cannot be copied either (context selection 3)
F9	Weighting	Display of the values of the individual parameters, which can be defined via control parameter USR7007 .
F11	Simulation	A stock transaction can be simulated via this function, and consequently you can determine which matrix is respectively valid. This simplifies creating and checking parameterization of matrices. After detailed entry of stock transaction data, the valid matrix including the value of its weighting is displayed for this stock transaction.
Shift + F9	Company/plant	Switch from company/plant



The possible context menu selections can be defined user-specific via the parameter **Valid selection options** (BBPA02) of the R4XLP0 **Document printing control (Edit parameter matrix)** program.

The following context menu items are available:

- **Edit**
- **Copy**
- **Delete**
- **Display**

1.1.2 Initial creation of header data

New parameter matrices can be defined via function key **F6 Create**. The **Initial Creation** dialog box is displayed with the header data of the parameter matrices:




Editing parameter matrices per company/plant:

Copying parameter matrices to other companies/plants is not currently permitted.

Suitable parameter matrices are sought on printing for the respective company/plants hierarchically according to the following criteria:

- Parameter matrix in company X/ plant Y
- Parameter matrix in company X/ plant 000
- Parameter matrix in company 1/ plant 000

Field	Description
Transaction type	<p>The transaction type is a mandatory entry field. The following transaction types are possible:</p> <ul style="list-style-type: none"> • Stock receipt • Stock issue • Stock transfer <p>The transaction type represents the main criterion for controlling document printing. The transaction codes are allocated via their parameters permanently to specific transaction types (receipt, issue or transfer).</p>
Transaction codes	<p>A stock transaction code can be entered here if required, for the transactions of which special logics is to be used for document printing.</p>
Warehouse kind	<p>You can enter the warehouse kind here. The following values are possible:</p> <ul style="list-style-type: none"> • 0 = Conventional warehouse • 1 = Random access warehouse • 2 = Container warehouse
Warehouse	<p>The warehouse can be allocated permanently to the parameter matrix here. The warehouse must correspond to the respective warehouse kind.</p>
Transfer warehouse kind	<p>If the parameter matrix for transfers is to apply to special warehouse kinds, you can define the warehouse kind of transfer warehouse here.</p>
Transfer warehouse	<p>Defined warehouses can be allocated to the parameter matrix here as transfer warehouse. The transfer warehouse must correspond to the warehouse kind of the transfer warehouse.</p>
User	<p>If the parameter matrix is to apply solely for one defined users, you can store him/her here.</p> <p> Note that the weighting of the user is rated lower in the default settings than the weighting of the warehouse kind, transaction code or warehouse. Refer to Chapter 0.3.1 Weighting parameter matrices for more information.</p>

Field	Description
Application program	No entry is currently required here, because the parameter matrix of the print server only applies to the general stock transaction program R4XLB0 until now.

1.1.3 Initial creation of position data

After creation of the header data, the Document printing control (**Edit parameter matrix**) – **Create** screen is displayed.

- Parameter matrices can be activated and deactivated via the **Active** checkbox.
- The parameters of document printing control are defined in **detail** via the data in the different **tabs**.



The tabs described below are shown or hidden dependent on the entered **transaction types** and **header data**.

After you update the position data in the respective tabs, the parameter matrix is created when you press function **F7 Update**.

1.1.3.1 Printing program and Printing program (transfer) tabs:

The **Printing program** tab is active for every transaction type. Additionally, the Printing program (transfer) tab is displayed if it concerns the transaction type “Transfer”.


You can define the document printout for the selected **transaction** as well as for **cancellation** of the same transaction via the displayed fields.

Field	Description
Printing program:	
No printing	Activate this radio button if there should be NO document printing for the selected transaction type.
From warehouse master data	The printing program stored in the warehouse master data is set as a default if you activate the radio button and is used for the selected transaction type and its cancellation.  If no document printing program is stored in the warehouse master data, the program stored in control parameter USR0719 Program for printing CT labels is used as a default.
Program name	You can define one of the standard document printing programs for the transaction type of cancellation here. This control has precedence over the program defined in the warehouse master data.  If no valid printing program is stored either in the warehouse master data or the parameter matrix, the value from control parameter USR0719 Program for printing CT labels applies.

Field	Description
Record type of printer parameters	The printer definition record type for printing authorization from code table DD is defined here. Only the following selections are currently possible: <ul style="list-style-type: none"> • 01 = User • 03 = Warehouse
Transaction document heading	
From table	In the code table P4 Title texts for WH documents , you can define the heading to be printed for individual warehouse documents and allocate it to the respective transaction or cancellation. This can be defined differently for the transaction and the cancellation.
From transaction code.	The description of the transaction code is printed. Consequently, the descriptions of the transaction code or cross entry are printed on stock transfers.
Text	Any text can be created as heading.

1.1.3.2 Container tracking and CT tracking (transfer) tabs:

The **Container tracking** tab is displayed in parameter matrices for **container-driven warehouses or random access warehouses**. The Container tracking (transfer) tab is also displayed if the transaction concerns a transfer.

Field	Description
Container: <ul style="list-style-type: none"> • Container 1 • Container 1 (internal) • Container 2 • Container 2 (internal) 	You can control document printing individually for single container types here.
On CT2 transactions: <ul style="list-style-type: none"> • Only for CT2 • Only for CT1 • For CT2 and CT1 	Using these radio buttons, you can define for which containers documents are to be printed for CT1/CT2 stock transactions. If the control parameter USR0233 CT1/CT2 mapping in XLOG = 0 , these selection fields are not available.



If the control parameter **USR0233 = 0**, you cannot differentiate between containers 1 and containers 2. Consequently in this case, documents can only be printed for the active containers (CT1 on CT1 transactions and CT2 on CT1/CT2 transactions). As a result, only the selections "**Containers**" and "**Container (internal)**" are available at this spot.

1.1.3.3 Additional receipt/partial issue tab:


The **Additional receipt/partial issue** tab is displayed in parameter matrices for **container-driven warehouses or random access warehouses**. The Additional receipt/partial issue (transfer) tab is also displayed if the transaction concerns a transfer.

On additional stock receipt:

Field	Description
Quantity:	
<ul style="list-style-type: none"> No printing New quantity Received quantity Quantity 	<p>These fields are used for stock receipt transactions as well as for stock transfers.</p> <p>You can define here whether documents are printed for the new quantity (old inventory + received quantity), only for the received quantity or not printed at all.</p>
Printing program: see "Printing program" tab	
	<p>Using the "Printing program" tab, you can generally control whether document printing is to occur upon receipts into newly generated containers, e.g., for transaction type "01-receipt". Furthermore, you can control whether document printing is also to occur upon receipts into existing containers separately via the "Additional receipt/partial issue" tab.</p>


On partial issue:

Field	Description
<ul style="list-style-type: none"> With return transfer document Without return transfer document Transaction document heading: 	<p>These fields are used for stock issue transactions as well as for stock transfers.</p> <p>You can define here whether a return transfer document is to be created in the case of partial issue from container or random access warehouses as well as the heading of the document.</p> <p>The heading can be defined for the warehouse document either based on code table P4, the description of the transaction code or via any other text.</p>
Printing program: cf. "Printing program" tab	

Field	Description
	Using the " Printing program " tab, you can generally control whether document printing is to occur upon receipts into newly generated containers, e.g., for transaction type " 02-issue ". Furthermore, you can control whether document printing is also to occur upon partial issues separately via the " Additional receipt/partial issue " tab.

1.1.3.4 Stock locations and Stock locs. (transfer) tabs:

The **Stock locations** tab is displayed in parameter matrices for **random access warehouses**. The Stock locs. (transfer) tab is also displayed if the transaction concerns a transfer.

Field	Description
<ul style="list-style-type: none"> • Zone • Stock location type • Stock location (*generic) • From stock location • To stock location 	<p>These fields are only active during transactions for random access warehouses. You can define document printing in detail for individual storage areas here. You can enter either the information for a specific stock location or for a range From/to stock location.</p> <p>A generic entry is possible in the Stock location field. For example, if you enter "A*" as stock location, this concerns all stock locations that start with the letter A. If "A00*" is entered as stock location, all stock locations are concerned that start with A00.</p>

1.1.3.5 Tab – Administration:

Information about generation or the last modification of the parameter matrix is displayed in this tab.

Field	Description
Created by/on	User and date of creation
Modified by/on	User and date of creation
Modification class	Required authorization for modifying the parameter matrix

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2 Administration

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2.1 General information



Only the settings of the print server parameter matrix via the **general stock transaction program** apply to the printing of the stock transaction documents. All **previous** parameterization options are no longer available!

Which parameter matrix is used for controlling a stock transaction is stored in the stock transaction data.

	LGBW file (conventional warehouse)	LGHI file (container-driven or random access warehouse)
Reference number RWS	LBREF3	HLREF1
Determined value (divided by 100)	LBRHF1	HLFR04

2.2 Control parameters



USR0172 Control character barcode container number

When working with barcode readers within the stock management programs, the value entered here is used as a control code for entry of a container number (CT ID/package no.) as well as for barcodes on the container labels.

- **USR0233 = 1:**
This only refers to CT1. For CT2, the value "M" or "G" for mixed containers is used.
- **USR0233 = 0:**
The barcode identified defined in USR0172 is valid both for CT1 and CT2.

USR7007 Weighting for fields of the print server parameter matrix fields

This control parameter sets the weighting of individual parameters of a parameter matrix for printing control of stock transactions.

The argument **Transaction type** is populated **permanently** with the highest weighting of **9999**. For all others, a value between 0 and 9998 is to be allocated in the sequence set below as in the description of the control parameter.

USR0719 Program for printing CT labels

If document printing is controlled in the parameter matrices of the XLOG print server via the document printing program stored in the warehouse master data and

no program is defined in certain circumstances in the warehouse master data, the document printing program from the control parameter is used as default.

This applies in the area of document printing both for CONVENTIONAL as well as CONTAINER-DRIVEN and RANDOM ACCESS warehouses.

List of possible programs:

R4CL75 Print warehouse documents

R4CL77 Print warehouse documents -PRINTRONIX-


R4CM75 Print container label – IBM printer

R4CM76 Print container label – *IPDS

R4US55 Print container label – TLA

2.3 Program parameters

The program parameters for the **R4XLP0 Document printing control (Edit parameter matrix)** are described below.

Description	Parameter	Description
Valid selection options	BBPA01	Possible values are: 2 = Edit 3 = Copy 4 = Delete 5 = Display
New creation allowed 	BBPA02	Possible values are: 0 = Creation not permitted 1 = Creation permitted If creation is not permitted, selection 3 – Copying is deactivated although it might be stored in the user/program parameters.
Edit Edit Company/plant permitted	BBPA03	Possible values are: 0 = No change permitted 1 = Change permitted

2.4 Code tables

The following code tables are required for controlling the **XLOG print server**:

Code table P3 – Transaction type

Code table P4 – Title texts for WH documents

Code table DD – Printing definition types

Code table LD – WH kind

Code table L1 – Stock location types (if required)