



PHASES OF THE EBR PACKAGE

RELEASE 10.01.00 TECHNICAL MANUAL

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Introduction

This documentation contains important information how to configure and adapt phase building blocks of the EBR Phase Package including information about actions that need to be performed in FactoryTalk® ProductionCentre and PharmaSuite.

The manual is an addition to the "Technical Manual Configuration and Extension" [A2]-[A6] (page 7).

The information is structured in the following sections:

CONFIGURATION AND EXTENSION

In this part you will find information for system engineers who implement customer-specific configurations and extensions.

- Configuration keys
 - Upload image phase (page 3)
 - Upload PDF phase (page 3)
 - **Produce material** phase (page 4)

Finally, the Reference Documents (page 7) section provides a list of all the documentation that is referenced in this manual.

Intended Audience

This manual is intended for system engineers and phase developers who maintain phase building blocks of the EBR Phase Package.

They need to have a thorough working knowledge of FactoryTalk ProductionCentre, PharmaSuite, and PharmaSuite building blocks. Thus, we highly recommend to participate in a FactoryTalk ProductionCentre and PharmaSuite training before starting on the tasks described in this manual.

For more information on S88, EBR, and phase building blocks, see also "Technical Manual Developing System Building Blocks" [A7] (page 7).

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Naming Recommendations

When naming your artifacts (e.g. objects in Process Designer, classes, interfaces, methods, functions, building blocks) consider the following recommendation:

- Define and make use of a vendor code consisting of up to three uppercase letters as prefix (e.g. MYC for My Company).
- Prefix your artifacts with your vendor code, separated by _.
 X_ and RS_ are reserved for PharmaSuite.
- Observe the naming conventions defined in "Technical Manual Developing System Building Blocks" [A7] (page 7).

Typographical Conventions

This documentation uses typographical conventions to enhance the readability of the information it presents. The following kinds of formatting indicate specific information:

Bold typeface	Designates user interface texts, such as	
	window and dialog titles	
	menu functions	
	panel, tab, and button names	
	box labels	
	• object properties and their values (e.g. status).	
Italic typeface	Designates technical background information, such as	
	path, folder, and file names	
	methods	
	classes.	
CAPITALS	Designate keyboard-related information, such as	
	key names	
	keyboard shortcuts.	
Monospaced typeface	Designates code examples.	

Configuration and Extension

This chapter applies to the **Upload image**, **Upload PDF**, and **Produce material** phases. You will learn which phase-specific configuration keys and extension use cases are available.

For general information on configuration keys, see chapter "Managing Configurations" in Volume 4 of the "Technical Manual Configuration and Extension" [A5] (page 7).

TIP

Configuration keys are modified and defined in Process Designer.

Configuration Keys Specific to the Upload Image Phase

This section describes the configuration keys specific to the phase.

Phase/UploadImage/uploadMaximumFileSize

Type: LongValue: N/A

Description: Defines the maximum allowed file size in bytes of the image file to

be uploaded.
Default: 1000000

Range: <=1000000

Configuration Keys Specific to the Upload PDF Phase

This section describes the configuration keys specific to the phase.

Phase/UploadPdf/uploadMaximumFileSize

Type: Long

Value: N/A

Description: Defines the maximum allowed file size in bytes of the PDF file to be uploaded.

Default: 5000000

■ Range: <=5000000

Configuration Keys Specific to the Produce Material Phase

This section describes the configuration keys specific to the phase.

Phase/ProduceMaterial/BaseUnitOfMeasure

■ **Type**: String

■ Value: ea

■ **Description**: The countable unit of measure to be used for the calculation result in case packaging levels are defined.

If the unit of measure of the defined output material is not equal to the configured unit of measure, a conversion factor between the configured unit of measure and the unit of measure of the defined output material must be available.

- **Evaluated**: When the **Produce material** phase is started in the Production Execution Client.
- **Range**: Valid countable unit of measure.

Phase/Produce Material/Phase Completes MatOutput Closed ExcRisk

Type: BigDecimal

■ Value: 30 (High Risk value)

■ **Description**: The exception-specific risk level of a system-triggered exception added to a Produce Material phase when it is automatically closed due to the output material having been already closed.

■ Evaluated: On startup

■ Range: The values of the elements of the RiskClass choice list.

Extension Use Case: Adding Further Packaging Levels for the Produce Material Phase

This section describes the procedure of adding a new packaging level to use with the **Produce material phase.**

In order to add a new packaging level **Trolley**, proceed as follows:

- Configure the PackagingLevel choice list by adding a new Trolley entry, using mes_ChoiceListManager form.
- Adjust the MESChoiceListStrings message pack and add a new entry for the new packaging level (PackagingLevel-Trolley) with the desired localized message.
- 3. Finally, adjust the message pack for the **Produce material phase** (*PhaseProductProduceMaterialXXXX*) and add a new set of entries for the new packaging level **Trolley**, named:
 - PackagingLevel_Trolley_S
 - PackagingLevel_Trolley_P
 - PackagingLevel_Trolley_SP

Where S and P stand for singular and plural, respectively. E.g. PackagingLevel_Trolley_S = trolley; PackagingLevel_Trolley_P = trolleys and PackagingLevel_Trolley_SP = Trolley(s).

Reference Documents

The following documents are available from the Rockwell Automation Download Site.

No.	Document Title	Part Number
A2	PharmaSuite Technical Manual Configuration & Extension - Volume 1	PSCEV1-GR010B-EN-E
А3	PharmaSuite Technical Manual Configuration & Extension - Volume 2	PSCEV2-GR010B-EN-E
Α4	PharmaSuite Technical Manual Configuration & Extension - Volume 3	PSCEV3-GR010B-EN-E
A5	PharmaSuite Technical Manual Configuration & Extension - Volume 4	PSCEV4-GR010B-EN-E
A6	PharmaSuite Technical Manual Configuration & Extension - Volume 5	PSCEV5-GR007B-EN-E
A7	PharmaSuite Technical Manual Developing System Building Blocks	PSBB-PM009A-EN-E

TIP

To access the Rockwell Automation Download Site, you need to acquire a user account from Rockwell Automation Sales or Support.

Revision History

The following tables describe the history of this document.

Changes related to the document:

Object	Description	Document

Changes related to "Introduction" (page 1):

Object	Description	Document

Changes related to "Configuration and Extension" (page 3):

Object	Description	Document
Configuration Keys Specific to the Produce Material Phase (page 4)	Added PhaseCompletesMatOutputClosedExcRisk Configuration Key.	1.0
Extension Use Case for Produce Material Phase (page 5)	Added a new Extension Use case for Produce Material Phase: "Adding Further Packaging Levels" with description and instruction steps.	1.0

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