

Configuration Guide

Automated Store Allocation
Document Version: 1.0 – 2013-06-28

CUSTOMER

Automated Store Allocation



Typographic Conventions

Type Style	Description
<i>Example</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
Example	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER.

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1 About This Document

1.1 Purpose and Scope

The configuration guide provides a central starting point for the technical implementation of automated store allocation. It gives an overview of the activities necessary for the installation and configuration of the application. In particular, you can find information about configuring assortments as allocation recipients in the allocation table.

1.2 Intended Group of Readers

This document is intended for the following target audiences:

- Consultants
- Partners
- Customers

1.3 Glossary

Term	Definition
Allocation strategy	Method of allocating articles to distribution centers, stores, and customers. Allocation strategies are an alternative to allocation rules and are used to ensure that quantities are allocated according to the allocation recipients demands. Allocation strategies avoid the manual entering of allocation quantities. You can also use the allocation strategy framework to create your own allocation methods.
Assortment	Synonym for a store cluster as a group of stores.
Merchandise category	Every article is assigned to a single merchandise category across a whole company, means the merchandise category is a grouping criteria in the merchandise hierarchy.
Recipient	Recipient of goods deliveries. The allocation recipient is either a store, a customer, or a distribution center.
Recipient determination	Determines the procedure the system should use to find the recipients of the goods. With automated store allocation, a new functionality for recipient determination is available. It allows to automatically determine the

Term	Definition
	assortments assigned to an article for a specific date, based on the article hierarchy sub tree which the article is assigned to.

1.4 List of Abbreviations

Abbreviation	Meaning
ALV	SAP List Viewer
BAdI	Business Add-In
DC	Distribution center
SAP BI	SAP NetWeaver Business Intelligence

1.5 Related Information

For more information about setting up and working with automated store allocation, see the following documentation:

- Implementation Guide for Retail Store Clustering & Allocation (transaction /RAERP/SPRO)
- User Guide for Automated Store Allocation

1.6 Important SAP Notes

➔ Recommendation

Make sure that you read the SAP Notes before you start implementing the software. The SAP Notes contain the latest information about the installation as well as corrections of the installation information. Also make sure that you have the newest version of each SAP Note. This is available on SAP Service Marketplace at <https://service.sap.com/notes>.

SAP Note Number	Title	Description
1279086	RAERP 603: Add-On installation on SAP ECC 600	This note provides information about prerequisites for the installation and hints on how to prepare and execute the installation.

SAP Note Number	Title	Description
1279087	RAERP 603: Add-On Support Packages	This note provides information about installing Support Packages with transaction SPAM.
1279085	Release strategy for the ABAP Add-On RAERP	This note provides information about planning the installation and upgrade of the ABAP Add-On RAERP
1291831	Composite SAP Note for Add-On RAERP	Collection of notes for the RAERP Add-On

2 Solution Overview

The solution is based on the SAP for Retail standard function *Allocation Tables*. Therefore, the Customizing and master data relevant for this function have to be available. Especially the following objects must be customized:

- Article hierarchy
- Assortments
- Allocation table types
- Allocation strategies
- Recipient determination

2.1 Software

2.1.1 Components

Before you can install the automated store allocation component, an SAP for Retail (SAP ERP) system has to be available. Make sure that all required business functions and SAP enterprise extensions are active.

Scenario/Business Processes	Software Components
SAP for Retail (SAP ERP)	SAP ECC 603 with EA-RETAIL 603 or SAP ECC 604 with EA-RETAIL 604
RAERP Retail Allocation - Automated Store Allocation (Release 603)	RAERP 603

Make sure that you have the required component support packages installed. Refer to the RAERP 603 Add-On installation note for further details (1.5).

2.1.2 Language

RAERP Retail Allocation - automated store allocation is only available in language English.

2.2 Area Menu

To make the automated store allocation functions accessible via an area menu, set up the area menu *Retail Store Clustering and Allocation* (/RAERP/ALLOC) for the users.



Figure 1: Area Menu Retail Store Clustering and Allocation

2.3 Implementation and Configuration – Basic Settings

Automated store allocation is mainly intended for background processing. To set up the automated store allocation as background job, proceed as follows:

In a first step you create a report variant for the background processing. With the report variant you predefine the values of selection screen fields for background processing.

1. Call up the automated store allocation (transaction /RAERP/AA_AUTOALLOC).
2. Enter the selection criteria for the creation of the required allocation tables.
3. Save the selection criteria as report variant. Choose *Goto* → *Variants* → *Save as Variant*.
4. Enter a variant name and a description for the variant.

In the next step you use the SAP standard functionality Computing Center Management System (CCMS) to schedule the run of the report in background processing. Choose *SAP Easy Access Menu* → *Tools* → *CCMS* → *Background Processing* → *Define Job* (transaction code SM36) and define the background processing.

Afterwards the automated store allocation is processed automatically by the background job processing at the specified date and time. Based on the chosen variant articles are collected, recipients are determined and the allocation tables are created with the use of strategies.

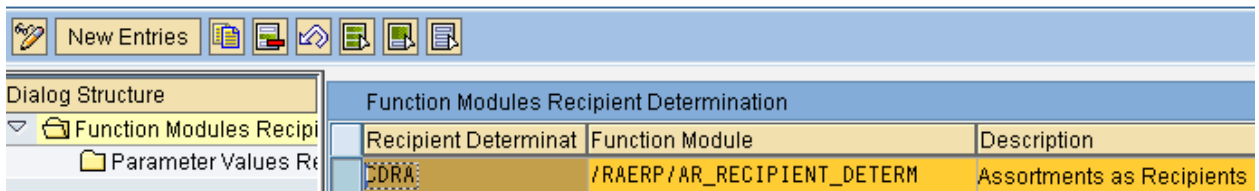
2.4 Customizing

2.4.1 Recipient Determination ID

To work with automated store allocation, you need to maintain a new recipient determination logic in the SAP standard Customizing.

In Customizing for *Logistics*, choose *General* → *Merchandise Distribution* → *Allocation* → *Allocation Table* → *Rcpt. determin.* Enter an identification for the recipient determination and choose function module /RAERP/AR_RECIPIENT_DETERM. Enter a description and save your entries.

Change View "Function Modules Recipient Determination": Overview



Recipient Determinat	Function Module	Description
CDRM	/RAERP/AR_RECIPIENT_DETERM	Assortments as Recipients

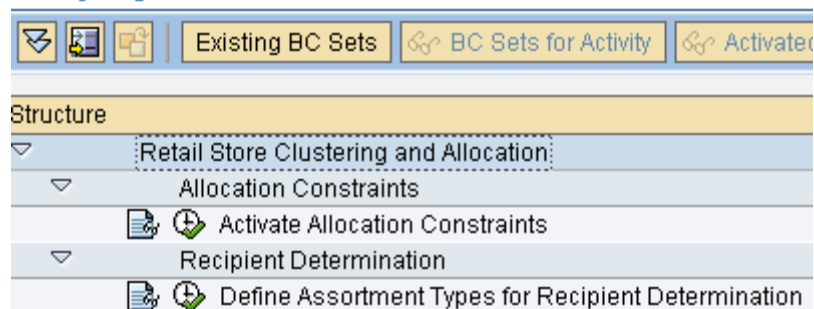
Figure 2: Customizing Example for Recipient Determination ID

2.4.2 Retail Store Clustering and Allocation

To call up the Customizing structure *Retail Store Clustering and Allocation*, choose *Retail Store Clustering and Allocation* (/RAERP/ALLOC) → *Customizing* → *Retail Store Clustering & Allocation* in the area menu.

Alternatively, you can call up the Customizing structure directly using transaction /RAERP/SPRO.

Display IMG



Structure
Retail Store Clustering and Allocation
Allocation Constraints
Activate Allocation Constraints
Recipient Determination
Define Assortment Types for Recipient Determination

Figure 3: Customizing Structure *Retail Store Clustering and Allocation*

2.5 Available Business Add-Ins (BAdIs)

The following new store allocation Business Add-In (BAdI) definitions are available:

- Alternative Stock Calculation (/RAERP/EHP_STOCK_CALCULATION)
- Article Selection for Automated Store Allocation (/RAERP/EHP_ARTICLE_SELECT)

Enhancement implementations for store allocation:

Implementation Name	Implementation Short Text
/RAERP/WRF_X_AT_CH_E	Check of Allocation Constraints within Incompleteness Log
/RAERP/EHI_ML01AFKD1	Assortments as Allocation Recipients This is a source code plug-in, which needs to be active if the recipient determination is used.
/RAERP/EHI_DEF_ARTICLE_SELECT	Automated Store Allocation - Article Selection (Default)

3 Security Information

Automated store allocation is based on SAP for Retail. Therefore, the related guides also apply to automated store allocation. For more information about specific security-related topics, see the following resources on SAP Service Marketplace or SDN:

Topic	Quick Link on SAP Service Marketplace or SDN
Security	http://service.sap.com/security http://sdn.sap.com/irj/sdn/security
Platforms	http://service.sap.com/platforms
Infrastructure	http://service.sap.com/securityguide → Infrastructure Security
Related SAP Notes	http://service.sap.com/notes http://service.sap.com/securitynotes
SAP NetWeaver	http://sdn.sap.com/irj/sdn/netweaver
SAP for Retail	→ <i>Security in Detail</i> → <i>Industry Solutions</i> → <i>SAP for Retail</i>

For a complete list of available SAP Security Guides, see SAP Service Marketplace at <http://service.sap.com/securityguide>.

3.1 Authorization Objects

The user needs the standard authorization to create allocation tables and to plan background jobs. The following new authorization objects are in the delivery scope of automated store allocation:

Authorization Object	Field	Value	Description
<i>Automated Store Allocation</i> /RAERP/ASA	ACTVT	16 Execute	Activity Execute transaction /RAERP/AA_AUTOALLOC
<i>Automated Store Allocation</i> /RAERP/ASA	AUFAR		Allocation Table Type: You enter the allocation table type, for which authorizations should be given

Authorization Object	Field	Value	Description
<i>Minimum Picking Quantities</i> /RAERP/COM	ACTVT	02 Change 03 Display	Activity Display and Change transaction /RAERP/CO_MIN
<i>Recipient Blocking</i> /RAERP/COB	ACTVT	02 Change 03 Display	Activity Display and Change transaction /RAERP/CO_BLOCK

Additionally, the authorization group *ACS SC & Alloc* (CDRA) is available for the table maintenance authorization object S_TABU_DIS. The authorization group controls access to the Customizing table maintenance functions.

4 Operations Information

Automated store allocation is based on SAP for Retail. Therefore, the general operations information that is covered in the related Operations Guides also applies to automated store allocation.

For a complete list of available SAP Operations Guides, see SAP Service Marketplace at <http://service.sap.com/instguides>.

The operations information specific to automated store allocation is described in the following chapter. The following areas are covered:

- Monitoring

4.1 Monitoring

If you have processed the application automated store allocation, you can display the messages for the allocation processing using transaction *Application Log: Display Logs* (transaction SLOG1). To analyze the application log, enter object type /RAERP/ALLOC and choose *Program* → *Execute*.



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Material Number

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