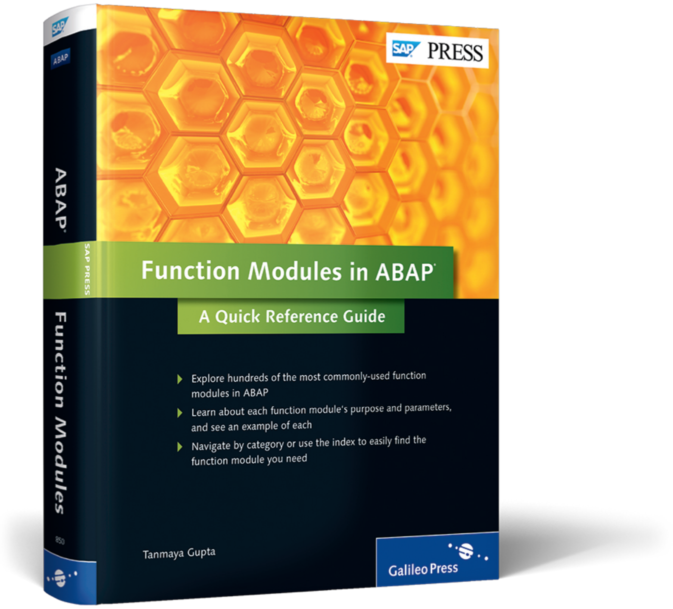
Tanmaya Gupta

Function Modules in ABAP®

A Quick Reference Guide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ABAP
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Function Modules
Function Modules in ABAP
A Quick Reference Guide
Explore hundreds of the most commonly-used function modules in ABAP
Learn about each function module's purpose and parameters, and see an example of each
Navigate by category or use the index to easily find the function module you need
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Introduction

Function modules (or FMs, as we'll often refer to them throughout the book) are templates that can be used and re-used within ABAP code in order to perform specific tasks. Instead of writing code to perform a certain functionality every time that functionality is needed, programmers can simply call a function module template within the logic. Then the programmer needs only to fill out the template with the details that are specific to his particular program, and the functionality is executed.

For example, a common functionality required in an ABAP program is the need to convert a value from an internal format (how the backend SAP system stores the value) to an external format (how the user should view the value). If this functionality is required, there is no need for programmers to write a separate program every time they need it; rather, they can simply call a function module and supply the necessary details that control how the value should be converted.

The most efficient programmers are those who have a commanding knowledge of function modules, which can save the time of writing unnecessary custom code. However, with about 7,000 function modules provided and released by SAP, understanding all of these FMs isn't an easy task.

This book is your guide to the most commonly used FMs in direct programming activities. We've also included common FMs that are related to SAP functionality but are used in the background. For example, a user may receive an error, and the error root cause is the FM executed in the background. Additionally, SAP uses FMs in its standard delivered transactions. A user might want to redesign and customize those functionalities with some additional options and might need to use an FM.

During our research for the book, we created, analyzed, and worked on a list of thousands of released FMs, as well as some very common but not released FMs. Based on our research, this book names and describes the most commonly used FMs from that list of thousands, which we identified by searching where-used lists for each FM, as well as extensive help and Google searches. Our goal was to provide an invaluable reference for all those who work in ABAP development.

Note

Although you can use unreleased FMs in your programming, SAP offers no guarantee that it will support these FMs in the future or that these FMs are correct. You can go to a FM's ATTRIBUTE tab via Transaction SE37 to see if the FM is released.

Structure of the Book

Based on the functionality of the FMs we've included, we've structured this book to make it very easy to understand. You can search by FM name in the index or table of contents, as well as by key word for what the FM accomplishes or works with. This book contains 15 parts, each of which are created and based on different functionalities and different areas in the SAP system. You may find that some FMs are part of a larger sequence or process and must be used chronologically in order to complete a task. In these cases, the first FM used in the process will contain a list of or mention the other FMs that are used sequentially.

This book has been structured to be as user- and reader-friendly as possible. Each FM is first explained in general terms and then defined with an example to help you understand when, where, and why you can use that FM. Some of the FMs will also contain figures to show how you can use the FM and what results you can expect from the FM call.

We'll now discuss the different parts of this book.

Part I

Part I focuses on the FMs associated with systems. "System" here refers to SAP ERP or SAP NetWeaver systems. This part deals with more of the Basis-related operations such as calling a new transaction, calling SAP NetWeaver from legacy systems, such as Java or Visual Basic (VB), or calling from an FTP server or a remote location. This part also provides you with the FMs related to IP addresses, user authorizations, login and logoff of the user in the system, calling a transaction in another window, and so on.

Part II

This part focuses on the ABAP Data Dictionary. This is the central repository of ABAP, which describes and manages all of the data definitions used in the ABAP system and the database. ABAP Data Dictionary supports the definition of user-defined types, such as data elements, structures, and table types. These types are used in the ABAP processors and programs. It also defines the structure of database objects, such as tables, views, and indexes. These database objects are automatically created in the underlying database with the definition of the ABAP Data Dictionary when the objects are activated. It also provides editing tools such as search help and lock objects.

Part III

This part includes FMs that are related to conversions of values from one format to another, such as from character to float, from one SI unit to another, from spool to PDF, and so on. FMs related to date, time, unit of measure, round off, and so on are also covered in this part. This part also includes CONVERSION_EXIT FMs, which are used to convert the SAP internal format to the user output format and vice versa.

Part IV

This part includes FMs related to Batch Data Communication (BDC), ABAP List Viewer (ALV), report programming, and screen programming. Report and screen (dialog or module pool) programming are the main crux of the ABAP language. Reports are the executable programs that mainly deal with reporting; that is, fetching the data from the database, processing it, and displaying the results. Results are displayed by ALV. This part defines various FMs such as those for calling an ALV, creating a field catalog for ALV, calling the BDC, reading and displaying the screen values, and so on.

Part V

This part focuses on FMs related to form printing. SAP's first form technology was SAPscript. In release 4.6, SAP introduced Smart Forms, which eased the creation of form output by allowing modeling of logic and output using graphical tools. In release 6.40, SAP introduced SAP Interactive Forms by Adobe, where the graphical editor was much easier to use, provided many more functionalities, and rendered output exactly as designed in the editor (PDF). This part contains the FMs used to call the Smart Forms or Adobe Interactive Forms; reading, saving, and updating the SAPscript texts; and so on.

Part VI

This part contains various functions such as archives, number ranges, texts, and strings that you'll use while developing your programs. You'll use archives to store the old data and information (which isn't in use) in your secondary storage so that you free the current memory for usage while still being able to refer to the information whenever required.

Database records of the commercial objects such as purchase documents, sales documents, addresses, and so on are uniquely identified by a number or an ID. Number ranges assign the next available numbers to these commercial object database records and help provide unique identification. This part also contains FMs for text and string operations such as splitting the text based on some separator, concatenating strings, and so on.

Part VII

This part contains the FMs related to frontend services and Microsoft Office integration. Frontend services contain the FMs related to SAP GUI frontends such as GUI_DOWNLOAD, which downloads the FMs to your computer, and GUI_UPLOAD, which uploads the FMs.

Office integration deals with the FMs related to Microsoft Office features such as opening the file in Word and Excel.

Part VIII

An Intermediate Document (IDoc) is the data container used to transfer data between two systems. Application Link Enabling (ALE) and Electronic Data Interchange (EDI) are used for exchanging business data between different systems. Data is distributed through ALE when you want to communicate from one SAP system to one or more other (mostly SAP) systems. ALE transfers the data in IDoc format and uses the tRFC (transactional RFC) method for data transfer. EDI, on the other hand, is generally used if you want to transfer business application document with the external partner system like vendor or customer. This part focuses on the ALE, EDI, and IDoc FMs; that is, FMs used to send IDoc data from one system to another.

Part IX

This part contains the FMs related to SAP users and their authorizations to execute transactions. Users are maintained in Transaction SU01 (User Master), and data are saved in user-specific tables, whose names generally start with "USR" such as

USR01, USR02, USR03, and so on. This part contains the FMs that are used to set user details such as an address, print the address in Smart Forms, and so on. This part also contains the FM to check whether the user has relevant authorizations to execute any transaction, to execute any ABAP Data Dictionary table or view, or to access any file.

Part X

This part contains the FMs related to spools and jobs. A spool request is the document for which a print function has been selected and not yet been printed. The spool system uses the spool request to store the print data temporarily and access it. An output request is created for the spool request document that outputs the print data of the spool request to a particular output device (e.g., printer).

SAP background processing automates routine tasks and helps you optimize your organization's SAP computing resources. Background processing tells the SAP system to run programs for you. It also lets you move long-running or resource-intensive program runs to times when the system load is low. You can delegate the task of running reports or programs to the system. Background processing isn't tied up with the user interaction and dialog screens. This part covers FMs used for creating a spool request, finding the spool request, opening the job, submitting the job for background processing, closing the job, and so on.

Part XI

This part deals with communication with the user via messages or popups. Message texts (standard or custom) are generally used to provide information, warning, success, or error details to the user.

This part contains the FMs for creating a message, sending and collecting the messages for the message handler, and taking user confirmation in popup screens. Popup screens are used to show the time and date, to display help, and so on.

Part XII

The Transport Management System plays an important role in the development and customizing environment. All of the development is locked under the task of the transport in the development system, which is moved to the quality system and finally to the production system. The Transport Management System administers and controls the new development, and records the version of the changes made for a particular program. This part focuses on FMs used in the Transport Management System.

Part XIII

Application logs are used for logging application events. This process is similar to using a system log where system event information is recorded. The advantage of an application log is that it's a system-wide standardized process and is convenient to analyze. Several application logs can be written at the same time by an application. This part defines the FMs related to application logs.

Part XIV

Business Application Programming Interfaces (BAPIs) define the API methods for SAP business objects. These business object types and their BAPIs are described and stored in the Business Object Repository (BOR). BAPIs are always remote function call (RFC) enabled, so they can also be called from external application systems and other programs. BAPIs are also related to SAP components such as Sales and Distribution (SD), Materials Management (MM), Production Planning (PP), Quality Management (QM), Warehouse Management (WM), and so on. This part contains all of the commonly used BAPIs.

Part XV

This part contains miscellaneous FMs that are important and commonly used but can't be categorized into any of the preceding parts. Many component-specific FMs that aren't BAPIs are covered in this part.

Structure of Each Function Module Entry

Each FM can be defined by its parameters (import, export, changing, tables, and exceptions). This book describes all of these parameters and uses them in the FM call. All of these parameters, excluding exceptions, are associated with a data type. In each FM, we've identified each type of parameter with an icon and heading for easier identification.

[↓] Import

Import parameters are the parameters or values that you pass on to the FM to execute it correctly when you're in an ABAP program. Some of the import parameters are mandatory, and the rest are optional. Some import parameters are defined with the default values; that is, if you don't pass any value, then the default values are automatically passed.

[↑] Export

Export parameters contain the results returned from the FM execution.

[Δ] Changing

Changing parameters indicate those parameters whose value is changed in the FM. These parameters can be considered as import and export parameters; for example, an input value is passed in the FM. The value is used, and a new value after execution of the FM is returned in the same parameter.

▦ Tables

Table parameters contain the internal table that you want to pass in the FM. Table parameters are also like changing parameters, in that some of the values can be changed after the execution of the FM.

[!] Exceptions

Exceptions are the errors or some exemptions that might have occurred during FM execution. They generally return the messages that define what problem has occurred. Exceptions should be handled in the program that is calling the FM, and the message explaining the exception should be displayed to the user.

Part IX
Users and Authorizations

This part of the book contains the function modules (FMs) related to users who are using SAP and their authorizations to execute transactions. Users are maintained in Transaction SU01 (User Master), and data are saved in user-specific tables, whose names generally start with "USR" such as USR01, USR02, USR03 and so on.

This part contains the FMs that are used to set user details, such as an address; printing the address in Smart Forms; and so on. This part also contains the FM to check whether the user has relevant authorizations to execute any transaction, to execute any ABAP Data Dictionary table or view, or to access any file.

384 ADDR_DIALOG

This FM displays the dialog box in which you can maintain the complete address of a user, vendor, third party, and so on. FM ADDR_DIALOG_PREPARE (FM 385) must be called if you want to parameterize the dialog box, including its title, field selection, exclude functions, and so on.

Example: You want to maintain the address of any person that exists in your SAP system. If you want to parameterize the address dialog box; that is, cause only those specific settings to appear in the address dialog box, you can call FM ADDR_DIALOG_PREPARE (FM 385) first. You can call this FM to open the address dialog box screen and maintain the address without calling FM ADDR_DIALOG_PREPARE (FM 385), which opens the address dialog box with default settings. You can maintain addresses in this dialog box.

[↓] Import

CHECK_ADDRESS

If this parameter is set to X, the address contents are checked. The default value is X. Type: SZAD_FIELD-FLAG.

SUPPRESS_TAXJURCODE_CHECK

The TAX JURISDICTION CODE field is suppressed and isn't handled if this parameter is X. The default value is [Space]. Type: SZAD_FIELD-FLAG.

IV_TIME_DEPENDENT_COMM_DATA

This parameter determines the time validity for communication data. The default value is [Space]. Type: AD_TIMEDEP.

[↑] Export

OK_CODE

Passed for the calling program. Type: SY-UCOMM.

▦ Tables

NUMBER_HANDLE_TAB

Transfer table of addresses to be processed. Type: ADDR1_DIA.

VALUES

Return table with maintained address data. Type: ADDR1_DATA.

[!] Exceptions

ADDRESS_NOT_EXIST

Address does not exist or is invalid.

GROUP_NOT_VALID

Address group does not exist or is invalid.

PARAMETER_ERROR

Incorrect parameter values.

INTERNAL_ERROR

Serious internal error (MESSAGE A...).

385 ADDR_DIALOG_PREPARE

This FM sets parameters for address maintenance or filtering conditions for field selection, which reduces the parameters of address dialog screen. This FM should be called before calling the address maintenance dialog (from FM ADDR_DIALOG [FM 384]) to set up application-specific parameters for the address dialog. These address settings are valid until the end of the LUW or until the FM is called again and overwrites them.

Example: If you want to change the title bar of the address dialog screen, exclude/include any pushbutton, or apply some other condition, you can pass these parameters in this FM, which parameterizes the address dialog screen. Next, when you call FM ADDR_DIALOG (FM 384), it displays the changes you made to parameterize the address dialog box.

[↓] Import

FIELD_SELECTION

Field selection control template. Each character in this parameter string controls an address maintenance screen field group, depending on the character's position and the field group number. Example: the 22nd character controls the field to which "022" is assigned as the 4th modification screen group. Possible Control characters are – (minus, hide the field), (period, display field as optional field), + (plus, display field as required), * (asterisk, display only field), (Space, standard settings of field) and # (hash, field will be always visible on the standard maintenance screen). Type: ADDR1_FSEL-FISEL.

FIELD_SELECTION_FOR_NATION

Field for the selection control structure. Type: ADDR1_FSEL-FISEL.

USE_FS_FOR_NATION

Checkbox field. Type: SZAD_FIELD-FLAG.

KEYWORDS

Dynamic key word structure. Type: ADDR1_KEYW.

TITLEBAR

Address maintenance screen title bar. Type: SY-TITLE.

CHANGE_DEFAULT_COMM_TYPES

Activate/deactivate communication types. Type: ADDR_COMM.

FRAME_TEXT

Dynamic frame texts. Type: ADDR_FRAME.

DEFAULT_URI_TYPE

Default URI/URL/FTP type. Type: ADURI-URI_TYPE.

SCREEN_VARIANT

Screen (transaction) variant. Type: SHDFV-TCVARIANT.

SHOW_PUSHBOTTONS_AT_TOP

Display toolbar. Only valid for subscreen. Type: SZAD_FIELD-FLAG.

USE_PSEUDO_REQUIRED_FIELDS

Display required entry fields as pseudo-required entry fields. Type: XFELD.

IV_TIME_DEPENDENCE

Time-specific maintenance of communication data. Type: XFELD.

Tables

EXCLUDED_FUNCTIONS

GUI status functions to be excluded.

INCLUDED_FUNCTIONS

Additional functions to include.

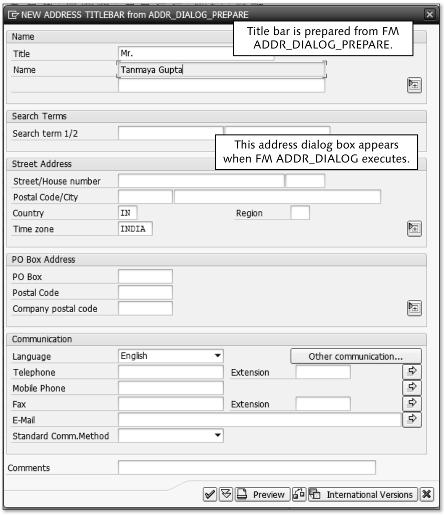
ERROR_TABLE

Table with errors, warnings, and information. Type: ADDR_ERROR.

[!] Exceptions

INTERNAL_ERROR

Serious internal error (MESSAGE A...).



NEW ADDRESS TITLEBAR from ADDR_DIALOG_PREPARE

Title bar is prepared from FM ADDR_DIALOG_PREPARE.

Title: Mr.

Name: Tanmaya Gupta

This address dialog box appears when FM ADDR_DIALOG executes.

Country: IN

Time zone: INDIA

Language: English

Address Dialog Box

386 ADDR_GET

This FM reads the address of an entity in the SAP system without the dialog box screen. If you want the details of the address and want to build your other program logic, you can call this FM to read the address details.

Example: To get the address for a plant on the selection screen, you can pass the parameter and call this FM.

[↓] Import

ADDRESS_SELECTION

Specification of an address. In the calling program, normally only the address number is recognized by a foreign key relationship (e.g., plant T001W-ADRNR, purchasing organization TVKO-ADRNR). The address number is to be passed to the parameter ADDRNUMBER.

Addresses created but not yet stored in the local memory can be identified and read with the parameter ADDRHANDLE. Only one of the two parameters ADDRNUMBER and ADDRHANDLE has to be filled.

This is a mandatory parameter. Type: ADDR1_SEL.

ADDRESS_GROUP

Address group. Entering an address group can trigger special handling: The system checks whether the data conversion from SADR to ADRC has already occurred for the addresses in the corresponding address group.

In any case, both return parameters ADDR1_VAL and SADR are filled.

If an address group whose addresses have already been converted is passed, ADRC is read, and the structure SADR is returned filled, in addition to ADDR1_VAL.

If no conversion has occurred, table SADR is read, and the SADR structure is returned; structure ADDR1_DATA from SADR is also filled. Type: ADRG-ADDR_GROUP.

READ_SADR_ONLY

Read in table SADR only. Type: SZAD_FIELD-FLAG.

READ_TEXTS

If this parameter is set to X, address texts are also read. Type: SZAD_FIELD-FLAG.

IV_CURRENT_COMM_DATA

This parameter determines the current status of communication data. Type: AD_COMCURR.

[↑] Export

ADDRESS_VALUE

Return data for an address. Type: ADDR1_VAL.

ADDRESS_ADDITIONAL_INFO

Additional communication data information. Type: AD1_FLAGS.

RETURNCODE

Return code. Space is success, I is information, W is warning, and E is error. Type: SZAD_FIELD-RETURNCODE.

ADDRESS_TEXT

Texts for key fields in the SY-LANGU language such as language key, country, and so on are returned if the parameter READ_TEXTS is set to X. Type: ADDR1_TEXT.

SADR

Return the old address structure. Type: SADR.

▦ Tables

ADDRESS_GROUPS

Address groups to which the address is assigned. Type: ADAGROUPS.

ERROR_TABLE

Table with errors, warnings, and information. Type: ADDR_ERROR.

VERSIONS

Table with international versions. Type: ADDR_VERS.

[!] Exceptions

PARAMETER_ERROR

Incorrect parameter values.

ADDRESS_NOT_EXIST

Address does not exist.

VERSION_NOT_EXIST

International version of the address does not exist.

INTERNAL_ERROR

Serious internal error (MESSAGE A...).

387 ADDR_GET_COMPLETE

This FM provides you with all of the details for the given address number or address handle, including all of the communication types and notes about the address or communication type. All of the valid communication types are defined in table TSAC(T).

Example: To get the complete address of the plant on your selection screen along with the communication details for that address, you can pass the parameter to and call this FM.

[↓] Import

ADDRNUMBER

Address number for which you want the complete information. This parameter is a key of the database table. Type: ADDR1_SEL-ADDRNUMBER.

ADDRHANDLE

Address handle for which you want the complete information. This is a temporary key for the address. Type: ADDR1_SEL-ADDRHANDLE.

ARCHIVE_HANDLE

Read address from archive. Type: SY-TABIX.

IV_CURRENT_COMM_DATA

This parameter determines the current status of communication data The default value is X. Type: AD_COMCURR.

[↑] Export

ADDR1_COMPLETE

The complete address object (including communication) is returned in this parameter. Type: SZADR_ADDR1_COMPLETE.

[!] Exceptions

PARAMETER_ERROR

Incorrect parameter values.

ADDRESS_NOT_EXIST

Address does not exist.

INTERNAL_ERROR

Serious internal error (MESSAGE A...).

WRONG_ACCESS_TO_ARCHIVE

Incorrect access to archived data.

388 ADDR_INSERT

This FM inserts an address without a dialog. This FM creates an address in the local memory of the function group SZA0. These FMs are also used in this process:

- ADDR_NUMBER_GET (FM 391)
- ADDR_MEMORY_SAVE (FM 390)
- ADDR_MEMORY_CLEAR (FM 389)

Example: To create a normal address, you can pass the relevant import parameter into and call this FM, which inserts the address in local memory.

[↓] Import

ADDRESS_DATA

Parameter with address data. Type: ADDR1_DATA.

ADDRESS_GROUP

Address group. Entering an address group can trigger special handling: The system checks whether the data conversion from SADR to ADRC has already occurred for the addresses in the corresponding address group. In any case, both return parameters ADDR1_VAL and SADR are filled.

If an address group whose addresses have already been converted is passed, ADRC is read, and structure SADR is returned filled, in addition to ADDR1_VAL.

If no conversion has occurred, table SADR is read, the SADR structure is returned, and structure ADDR1_DATA from SADR is also filled. Type: ADRG-ADDR_GROUP.

ADDRESS_HANDLE

Address handle for which you want the complete information. This is a temporary key for the address. Type: SZAD_FIELD-HANDLE.

DATE_FROM

Reference date for the address. Type: ADCP-DATE_FROM.

LANGUAGE

Language for the text box. Type: ADRCT-LANGU.

CHECK_EMPTY_ADDRESS

Address input must be checked. Type: SZAD_FIELD-FLAG.

CHECK_ADDRESS

If this parameter is set to X, the address contents are checked. The default value is X. Type: SZAD_FIELD-FLAG.

[↑] Export

ADDRESS_DATA

Parameter with address data. Type: ADDR1_DATA.

RETURNCODE

Return code of the address. if the value of the return code isn't equal to Space, at least one message is stored in the table ERROR_TABLE. Type: SZAD_FIELD-RETURNCODE.

▦ Tables

ERROR_TABLE

Table with errors, warnings, and information. Type: ADDR_ERROR.

[!] Exceptions

ADDRESS_EXISTS

Address already exists in the handle.

PARAMETER_ERROR

Incorrect parameter values.

INTERNAL_ERROR

Serious internal error (MESSAGE A...).

389 ADDR_MEMORY_CLEAR

This FM deletes the local memory contents. All address data changes made since the first call of any FM or the last local memory save are discarded. This FM should be called after extensive read operations or when returning to the application.

Example: You've modified the address from FM ADDR_INSERT (FM 388), which adds or modifies the address in the local memory. Now you're done with the modification of the address and want to clear the local memory so that it doesn't overflow when you want to modify another address. You can pass the parameter FORCE if you want unsaved data to be cleared as well or just execute the FM without passing any parameters. After this FM is executed, the local memory is cleared (refer to FM ADDR_INSERT [FM 388]).

[↓] Import

FORCE

If this parameter is X, unsaved data are also cleared. Type: SZAD_FIELD-FLAG.

[!] Exceptions

UNSAVED_DATA_EXIST

Missing address number for new address.

INTERNAL_ERROR

Some internal error occurred.

390 ADDR_MEMORY_SAVE

This FM saves all of the address data from the local memory to the database. All address data changes made since the first call of any FM in the function group are then permanent.

Example: You're creating an address from FM ADDR_INSERT (FM 388). To save the address to the respective database table, call this FM. Refer to FM ADDR_INSERT (FM 388).

[↓] Import

EXECUTE_IN_UPDATE_TASK

Database update in the dialog or in the update task. Type: SZAD_FIELD-FLAG.

[!] Exceptions

ADDRESS_NUMBER_MISSING

Missing address number for new address.

PERSON_NUMBER_MISSING

Missing person number for new person.

INTERNAL_ERROR

Serious internal error (MESSAGE A...).

DATABASE_ERROR

Error when writing to the database (dialog).

REFERENCE_MISSING

Reference is missing.

391 ADDR_NUMBER_GET

This FM assigns an address number; that is, converts a temporary address number (address handle) into a permanent address number, which is saved in the database key.

Example: You're creating a new address and need to assign the address number to the address information. This address number is a unique number that identifies the address. You can pass the relevant parameters in this

FM and execute it to get the address number and assign the numbers to the address. Refer to FM ADDR_INSERT (FM 388).

[↓] Import

ADDRESS_HANDLE

Address handle for which you want the complete information. This is a temporary key for the address. Type: SZAD_FIELD-HANDLE.

ADDRESS_REFERENCE

Address reference for the BAS where-used list. The consistency of the where-used list determines the reference integrity for deleting and archiving addresses and is also required for identifying the owner object of an address. Type: ADDR_REF.

PERSONAL_ADDRESS

Personal address indicator. The default value is Space. Type: ADRC-PERS_ADDR.

NUMBERRANGE_NUMBER

Number range from which the number is taken. Type: INRI-NRRANGENR.

E071K_WA

Prepopulated structure for the transport entry. Type: E071K.

GENERATE_TRANSPORT_ENTRIES

If this parameter is set to X, entries are generated for the transport request. Type: SZAD_FIELD-FLAG.

OWNER

This parameter indicates that the application object is the owner of the address. Type: SZAD_FIELD-FLAG.

TABLE_NAME

Referencing table for the transport entry. Type: TSADRV-DDIC_TABLE.

FIELD_NAME

Referencing table field for the transport entry. Type: TSADRV-DDIC_FIELD.

OBJKEY

Key of referencing table for the transport entry. Type: ADRCS2-OBJKEY.

[↑] Export

ADDRESS_NUMBER

Number taken from the number range. Type: ADRC-ADDRNUMBER.

RETURNCODE_NUMBERRANGE

Return code when taking the number. Type: INRI-RETURNCODE.

▦ Tables

E071K_TAB

All transport entries that belong to the address. Type: E071K.

[!] Exceptions

ADDRESS_HANDLE_NOT_EXIST

Transferred address handle does not exist.

INTERNAL_ERROR

Serious internal error (MESSAGE A...).

PARAMETER_ERROR

Incorrect parameter values.

392 ADDRESS_INTO_PRINTFORM

This FM formats an address for printing in the correct postal form with the required number of lines from the input. This FM also returns a short address; that is, the name and city one-line short address for the data carrier. Many country-specific formats are supported that correspond to the postal regulations of recipient countries.

Example: If your application isn't using the Business Address Services (BAS) for addresses, but you still want to have country-specific addresses displayed in your form, you can do pass the relevant parameters into and call this FM. When you call this FM, you'll receive the country-specific address that can be used for printing the address.

[↓] Import

ADRSWA_IN

Address data/control parameter. This parameter is only used in address type Space. Type: ADRS.

ADDRESS_1

Address data transfer structure for type 1. Type: ADRS1.

ADDRESS_2

Address data transfer structure for type 2. Type: ADRS2.

ADDRESS_3

Address data transfer structure for type 3. Type: ADRS3.

ADDRESS_TYPE

There are three address types:

- For address type 1: The normal address (company or organization) structure used in most SAP applications.
- For address type 2: Address of a person.
- For address type 3: Work address, which is usually the address of a contact person in a company.

The default address type Space is treated as type 1 and is required for the upward compatibility of the FM.

The interface parameters ADRSWA_IN and ADRSWA_OUT are only used in address type Space. Type: SZAD_FIELD-ADDR_TYPE.

ADDRESS_NUMBER

Address number (data is read directly). The address fields (Name, Street, City, etc.) for formatting can either be passed in the appropriate structure (ADDRESS1/2/3 or ADRSWA_IN) or be read from the BAS database tables, if this address is there, using the address key. To read the database tables, the keys are:

- For address type 1: ADDRESS_NUMBER
- For address type 2: ADDRESS_NUMBER and PERSON_NUMBER
- For address type 3: ADDRESS_NUMBER and PERSON_NUMBER.

Type: ADRC-ADDRNUMBER.

ADDRESS_HANDLE

Address handle for which you want the complete information. This is a temporary key for the address. Type: SZAD_FIELD-HANDLE.

PERSON_NUMBER

Person number (data are read directly). Type: ADRP-PERSNUMBER.

PERSON_HANDLE

Person handle for which you want the complete information. Type: SZAD_FIELD-HANDLE.

SENDER_COUNTRY

Sender country (for type 1, 2, and 3). Type: SZAD_FIELD-SEND_CNTRY.

RECEIVER_LANGUAGE

Recipient language (for type 1, 2, and 3). Type: T002-SPRAS.

NUMBER_OF_LINES

Max. line length for the formatting (for type 1, 2, and 3). The default value is 10. Type: ADRS-ANZZL.

STREET_HAS_PRIORITY

If this parameter is set to X, Street has priority over PO Box. Type: SZAD_FIELD-STREETPRIO.

LINE_PRIORITY

Line suppression sequence. Type: SZAD_FIELD-PRIORITY.

COUNTRY_NAME_IN_RECEIVER_LANGU

If this parameter is set to X, the country outputs in the recipient language. Type: SZAD_FIELD-FLAG.

LANGUAGE_FOR_COUNTRY_NAME

This parameter specifies the country output language for a foreign address. Otherwise, the sender country language is used. Type: T002-SPRAS.

NO_UPPER_CASE_FOR_CITY

International post guidelines specify that the city and country in foreign addresses are output in uppercase.

If this parameter is set to X, there is no conversion to uppercase. If Space, country and city are converted to uppercase. Type: SZAD_FIELD-FLAG.

IV_NATION

International version for formatting. Type: ADRC-NATION.

IV_NATION_SPACE

Flag: Use international version space in all cases. Type: T_BOOLE.

IV_PERSON_ABOVE_ORGANIZATION

Print person above organization. Type: T_BOOLE.

IS_BUPA_TIME_DEPENDENCY

Transfer structure for time dependency. Type: ADBUPA_TD.

IV_LANGU_CREA

Language key. Type: T002-SPRAS.

IV_DISPLAY_COUNTRY_IN_SHRTFORM

Display country key in short form. Type: XFELD.

[↑] Export

ADRSWA_OUT

This parameter is only used in address type Space.

The formatted address is returned in the 10 fields LINE0 to LINE9 in the return structure ADRSWA_OUT.

A one-line short address comprising the name and city is returned in the field LINEK. The format is NAME1/City line (from the formatted address).

A one-line short address for "Payment without documents by data carrier exchange (DCE)" is returned in the field LINED. This usually comprises the postal code, city, and country, and is formatted specific to the country. Type: ADRS.

ADDRESS_PRINTFORM

Formatted address (type 1, 2, and 3). Type: ADRS_PRINT.

ADDRESS_SHORT_FORM

Short form of the formatted address (type 1, 2, and 3). Type: SZAD_FIELD-ADDR_SHORT.

ADDRESS_SHORT_FORM_S

Short form, including street (type 1, 2, and 3). Type: SZAD_FIELD-ADDR_SHORT.

ADDRESS_DATA_CARRIER

Data carrier address (type 1, 2, and 3). Type: SZAD_FIELD-ADDR_DC.

ADDRESS_DATA_CARRIER_0

Second line for the data medium (type 1, 2, and 3). This line is part of the two-line data medium address. The line is the same as the address line, which contains street or PO box. Type: SZAD_FIELD-ADDR_DC.

NUMBER_OF_USED_LINES

Number of lines occupied (type 1, 2, and 3). Type: ADRS-ANZZL.

NAME_IS_EMPTY

Flag: Name fields empty, no formatting. Type: SZAD_FIELD-FLAG.

ADDRESS_NOT_FOUND

This parameter has the value X if the address isn't found in the BAS database table when the address number is entered. Type: SZAD_FIELD-FLAG.

ADDRESS_PRINTFORM_TABLE

Formatted address in table form. The formatted address is returned in an internal table. LINE_TYPE specifies the line type (name, city, street, etc.) per line. Type: SZADR_PRINTFORM_TABLE.

ADDRESS_SHORT_FORM_WO_NAME

Short form street and city (type 1, 2, and 3). Type: SZAD_FIELD-ADDR_SHORT.

EV_NATION

Actual version used if IV_NATION was transmitted. Type: ADRC-NATION.

393 ADDRESS_SHOW_PRINTFORM

This FM displays the formatted address in a popup.

Example: To display the print preview of an address according to the postal guidelines of a country, call this FM and fill in the parameters, and the address appears in a popup.

[↓] Import

ADDRESS_1

Address data transfer structure for type 1. Type: ADRS1.

ADDRESS_2

Address data transfer structure for type 2. Type: ADRS2.

ADDRESS_3

Address data transfer structure for type 3. Type: ADRS3.

ADDRESS_TYPE

There are three address types:

- For address type 1: Normal address (company or organization) structure used in most SAP applications.
- For address type 2: Address of a person.
- For address type 3: Work address, which is usually the address of a contact person in a company.

The default address type Space is treated as type 1 and is required for the upward compatibility of the FM.

The interface parameters ADRSWA_IN and ADRSWA_OUT are only used in address type Space. Type: SZAD_FIELD-ADDR_TYPE.

ADDRESS_NUMBER

Address number (data is read directly). The address fields (Name, Street, City, etc.) for formatting can either be passed in the appropriate structure (ADDRESS1/2/3 or ADRSWA_IN) or be read from the BAS database tables, if this address is there, using the address key. To read the database tables, the keys are:

- For address type 1: ADDRESS_NUMBER
- For address type 2: ADDRESS_NUMBER and PERSON_NUMBER

- For address type 3: ADDRESS_NUMBER and PERSON_NUMBER.

Type: ADRC-ADDRNUMBER.

ADDRESS_HANDLE

Address handle for which you want the complete information. This is a temporary key for the address. Type: SZAD_FIELD-HANDLE.

PERSON_NUMBER

Person number (data are read directly). Type: ADRP-PERSNUMBER.

PERSON_HANDLE

Person handle for which you want the complete information. Type: SZAD_FIELD-HANDLE.

SENDER_COUNTRY

Sender country (for type 1, 2, and 3). Type: SZAD_FIELD-SEND_CNTRY.

RECEIVER_LANGUAGE

Recipient language (for type 1, 2, and 3). Type: T002-SPRAS.

NUMBER_OF_LINES

Max. line length for the formatting (type 1, 2, and 3). The default value is 10. Type: ADRS-ANZZL.

STREET_HAS_PRIORITY

If this parameter is set to X, street has priority over PO box. Type: SZAD_FIELD-STREETPRIO.

LINE_PRIORITY

Line suppression sequence. Type: SZAD_FIELD-PRIORITY.

COUNTRY_NAME_IN_RECEIVER_LANGU

If this parameter is set to X, country outputs in the recipient language. Type: SZAD_FIELD-FLAG.

LANGUAGE_FOR_COUNTRY_NAME

This parameter specifies the country output language for a foreign address. Otherwise, the sender country language is used. Type: T002-SPRAS.

NO_UPPER_CASE_FOR_CITY

International post guidelines specify that the city and country in foreign addresses are output in uppercase.

If this parameter is set to X, there is no conversion to uppercase. If Space, country and city are converted to uppercase. Type: SZAD_FIELD-FLAG.

IS_BUPA_TIME_DEPENDENCY

Transfer structure for time dependency. Type: ADBUPA_TD.

[↑] Export

ADDRESS_PRINTFORM

Formatted address (type 1, 2, and 3). Type: ADRS_PRINT.

ADDRESS_SHORT_FORM

Short form of the formatted address (type 1, 2, and 3). Type: SZAD_FIELD-ADDR_SHORT.

ADDRESS_DATA_CARRIER

Data carrier address (type 1, 2, and 3). Type: SZAD_FIELD-ADDR_DC.

NUMBER_OF_USED_LINES

Number of lines occupied (type 1, 2, and 3). Type: ADRS-ANZZL.

NAME_IS_EMPTY

Flag: Name fields empty, no formatting. Type: SZAD_FIELD-FLAG.

ADDRESS_NOT_FOUND

This parameter has the value X if the address isn't found in the BAS database table when the address number is entered. Type: SZAD_FIELD-FLAG.

EV_EXIT_CAUSED_BY_CALLER

Delete list in CALLBACK_USER_COMMAND. Type: CHAR1.

EV_EXIT_CAUSED_BY_USER

How the user left the list. Type: SLIS_EXIT_BY_USER.

394 AUTHORITY_CHECK_DATASET

This FM allows you to check authorizations to access files with the key words OPEN DATASET, READ DATASET, TRANSFER, and DELETE DATASET. The authorization check is performed using the authorization object S_DATASET.

Example: You want to access the file *ABC*. Before opening the file, first you need to check if you're authorized to access the file. You can pass the parameters into and call FM AUTHORITY_CHECK_DATASET. You'll get an exception if you're not authorized to access the file.

[↓] Import

PROGRAM

ABAP program from which authorization needs to be checked. If no program name is specified, the system assumes the current program. Type: AUTHB-PROGRAM.

ACTIVITY

Access type. Possible values are:

- READ: Read file.
- WRITE: Change file.
- READ_WITH_FILTER: Read file with filter function.
- WRITE_WITH_FILTER: Change file with filter function.
- DELETE: Delete file.

Type: C.

FILENAME

File name for authorization. Type: AUTHB-FILENAME.

[!] Exceptions

NO_AUTHORITY

You are not authorized for this access.

ACTIVITY_UNKNOWN

Access type unknown.

395 AUTHORITY_CHECK_TCODE

This FM checks whether you're authorized to execute a transaction code. The authorization check is performed using the authorization object S_TCODE. S_TCODE is the authorization object linked with the transaction code authorization.

Example: You want your transaction to be executed only by authorized users. You need to pass the parameters and call this FM in the `INITILIZATION` event so that the transaction can be loaded only for the authorized users. You can also use the ABAP command `AUTORITY-CHECK OBJECT` for the same purpose.

[↓] Import

TCODE

Transaction code. Type: TSTC-TCODE.

[!] Exceptions

OK

Authorized for the transaction.

NOT_OK

Not authorized for the transaction.

396 SUSR_USER_AUTH_FOR_OBJ_GET

This FM displays authorizations for a specified object belonging to a user. User authorizations are displayed in an internal table. It's also possible to restrict the authorizations to specified authorization objects.

Example: You want to know whether you have authorization to start Transaction SU01. The user requires authorization for object S_TCODE with the value SU01 in field TCD to be able to do this. You can pass the parameters into and call FM SUSR_USER_AUTH_FOR_OBJ_GET. The value is returned in the table parameter VALUES if you have authorization.

[↓] Import

NEW_BUFFERING

This parameter is used as an indicator for various authorization programs. Type: XUFLAG.

MANDANT

SAP system and client number. Type: SY-MANDT.

USER_NAME

User name in user master record. This is a mandatory parameter. Type: USR02-BNAME.

SEL_OBJECT

Authorization object for restriction. If this parameter is passed, only the permissions to the object SEL_OBJECT are displayed. Type: UST12-OBJCT.

⊞ Tables

VALUES

Authorization values are returned in this table. Type: USVALUES.

[!] Exceptions

USER_NAME_NOT_EXIST

User name does not exist.

NOT_AUTHORIZED

No authorization.

INTERNAL_ERROR

Internal error.

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