

Syniti Solutions

SAP Supplementary Transports for Stewardship Tier Version 7.4.8 and above



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Overview

Syniti provides SAP Transports that offer specific functionality that enhance the capabilities of the Syniti Stewardship Tier.

These capabilities are split into 2 SAP transports named Syniti – Stewardship Core Objects and Syniti – Stewardship Supplementary Objects. The transports for Supplementary Objects are optional. This document will discuss the SAP Transports for Stewardship Supplementary Objects.

Syniti – Stewardship Supplementary Objects (DCSK900488) contain an array of supplementary tools / utilities that can be integrated with via the Stewardship Tier or accessed directly by users in an SAP system in which the transport is installed.

The details of these transports are documented in corresponding sections below. This transport should be installed on a case-by-case basis when specific functionality provided by this transport is identified as required.

SAP Authorization Requirements

This section provides an overview of the SAP authorizations needed for the Stewardship Tier and end users to use the intended functionality that is supported by the transports referenced in this document and standard functionality provided by SAP and called by the Stewardship Tier via RFC.

Note: In section 'Transport Syniti – Stewardship Supplementary Objects (DCSK900488)' the SAP authorization requirements of each Function Module, Program and Transaction is provided.

Non-Dialog User

A non-dialog user with a non-expiring password is required for the RFC login. If a more granular security model is desired, create the user so that it only provides access to the required tables per project scope.

The following table provides the baseline SAP authorizations required of non-dialog users configured in the Stewardship Tier to interact with the SAP standard functionality:

Authorization Object	Authorization Field	Authorization Value
S_RFC	RFC_TYPE	FUGR (or FUNC if specifying Function Module names instead of Function Groups in RFC_NAME field)
	ACTVT	16 (Execute)
	RFC_NAME	SDTX, RFC1, RFC_METADATA, SDIFRUNTIME, SYST (or Function Module names)
S_TABU_CLI	CLIIDMAINT	'X'



S_TABU_DIS	ACTVT	02 (Change), 03 (Display)
	DICBERCLS	EDIDC, EDIDS, T100, APQD, APQI. Other Authorization Groups assigned to tables in scope.
S_DATASET	ACTVT	33 (Read)
S_IDOCCTRL	ACTVT	02 (Change)

The following table provides the SAP authorizations required of non-dialog users configured in the Stewardship Tier to interact with the Function Modules / Programs and Transactions referenced in this document:

Authorization Object	Authorization Field	Authorization Value
S_RFC	RFC_TYPE	FUGR (or FUNC if specifying Function Module names instead of Function Groups in RFC_NAME field)
	ACTVT	16 (Execute)
	RFC_NAME	/BOA/HELPTEXT, /BOA/RFCTAXJUR, /BOA/SCREENINFO, /BOA/TBLDOWNLOAD, /BOA/CONVERSION (or Function Module names)
S_TABU_CLI	CLIIDMAINT	'X'
S_TABU_DIS	ACTVT	02 (Change), 03 (Display)
	DICBERCLS	EDIDC, EDIDS, T100, APQD, APQI. Other Authorization Groups assigned to tables in scope.
S_DATASET	ACTVT	33 (Read)
S_IDOCCTRL	ACTVT	02 (Change)

Dialog Users

Many of the Function Modules / Programs and Transactions provided within the Supplementary SAP Transport are intended to be used by end users. To utilize these, users will require a dialog user with the following authorizations:



Authorization Object	Authorization Field	Authorization Value
S_TABU_DIS	ACTVT	02 (Change), 03 (Display)
	DICBERCLS	AA, EDIDC, EDIDS, T100, APQD, APQI, /SAPDMC/LSOATT, /SAPDMC/LSOALG, SC, SA, SS. Other Authorization Groups assigned to tables in scope.
S_DATASET	ACTVT	33 (Read), 34 (Write)
	PROGRAM	/BOA/ZDIRECTLOAD
	FILENAME	*
S_TCODE	TCD	/BOA/ZBDCGET, /BOA/ZBDCSTOP, /BOA/ZDIRECTLOAD, /BOA/ZLONGTEXT, /BOA/DOWNLOAD_SCHED, /BOA/EXTTAXJURIS, /BOA/IDOCLSMW, /BOA/IDOC_ANALYSIS, /BOA/ONLINETAXJURIS, /BOA/TABLEDOWNLOAD
S_PROGRAM	P_GROUP	/BOA/GRP
	P_ACTION	SUBMIT
S_DEVELOP	DEVCLASS	/BOA/BDCDIRECT, /BOA/UTILITY
	ОВЈТҮРЕ	PROG
	OBJNAME	/BOA/ZBDCFILEGET, /BOA/ZBDCSTOP, /BOA/ZBDC_CLEAR_HISTORY, /BOA/ZDIRECTLOAD, /BOA/ZLONGTEXTDOWNLOAD, /BOA/ZLONGTEXTDOWNLOADFROMFILE, /BOA/CHILDTABLEDOWNLOAD, /BOA/EXTERNAL_TAXJURIS_ADDRCHK, /BOA/ONLINE_TAXJURIS_ADDRCHK, /BOA/IDOC_ANALYSIS, /BOA/IDOC_ANALYSIS_LSMW, /BOA/ZTABLEDOWNLOAD_FILE, /BOA/ZTABLEDOWNLOAD_SCHEDULER
	P_GROUP	/BOA/GRP
	ACTVT	03 (Display), 16 (Execute)



/BOA/TCODE	ACTVT	16 (Execute)
S_RFC	RFC_TYPE	FUGR (or FUNC if specifying Function Module names instead of Function Groups in RFC_NAME field)
	ACTVT	16 (Execute)
	RFC_NAME	FYTX (or Function Module names)

NOTE: If a project uses specific BAPI's, RFC-enabled functions or BDC's not provided by Syniti, RFC/Dialog users will need to be granted the appropriate authorizations to these objects.

Transports Compatibility

Syniti Stewardship Tier Compatibility:

The transports can be applied to Syniti Solutions versions 7.4.8 and later.

SAP Environment Compatibility:

Transports are compatible with SAP installations of EHP 7 FOR SAP ERP 6.0 [SAP_APPL 617] (based on SAP NETWEAVER 740 [SAP_BASIS 740]) or higher.

Customers running older versions of the Stewardship Tier / DSP or SAP should refer to the Knowledge Base article SAP Transports for 7.1 through 7.4.7.

Transport Distribution

To obtain the files of the SAP Transports for Stewardship Tier and Installation files please open a ticket at support.syniti.com.

Transport Installation Sequence

The installation sequence of the SAP Transports for Stewardship Tier is depicted below:

Transport: Syniti – Stewardship Supplementary Objects (DCSK900488) -

- File 1 K900488.DCS
- File 2 R900488.DCS

Transport Syniti – Stewardship Supplementary Objects (DCSK900488)

The table below contains the contents of the Syniti – Stewardship Supplementary Objects SAP Transport.

Packages

Object Name	Description
/BOA/IBAN	IBAN Objects Package.



/BOA/UTILITY	Data Extraction Utility Objects Package.
/BOA/BDCDIRECT	Data Stewardship Platform BDC Objects Package.

Function Groups

Object Name	Package	Description
/BOA/RFCTAXJUR	/BOA/UTILITY	This Function Group contains function that allow for the validation of Tax
		Jurisdiction codes.
/BOA/TBLDOWNLOAD	/BOA/UTILITY	This Function Group contains functions that allow for the maintenance of
		Table /BOA/TBLDOWNLOAD.
/BOA/HELPTEXT	/BOA/UTILITY	This Function Group contains functions that allow the extraction of Help Text
		information of table columns.
/BOA/SCREENINFO	/BOA/UTILITY	This Function Group contains functions that allow the extraction of Screen
		Fields information of programs.
/BOA/CONVERSION	/BOA/IBAN	This Function Group contains function that allow the conversion of IBAN
		numbers into Bank Account numbers.

Function Modules

Object Name	Package	Description
/BOA/RFCTAXJUR	/BOA/UTILITY	Check address using vertex function call via RFC this is basically just a wrapper that allows a call from outside of SAP to validate tax jurisdictions using whatever tax software has been configured in SAP. User needs to know what the internal RFC destination is - ex: VERTEX. SAP Authorizations To successfully execute this Function Module, the user must be granted access to the following authorization objects: • S_RFC: RFC_TYPE=FUGR OR FUNC,
TABLEFRAME_/BOA/TBLDOWNLOAD	/BOA/UTILITY	Maintenance View for /BOA/TBLDOWNLOAD.
TABLEPROC_/BOA/TBLDOWNLOAD	/BOA/UTILITY	Maintenance View for /BOA/TBLDOWNLOAD.
/BOA/RFC_GET_HELPTEXT	/BOA/UTILITY	This Function Module is used to the help text of all columns of a given table in all languages available in the system. SAP Authorizations To successfully execute this Function Module, the user must be granted access to the following authorization objects: SRFC: RFC_TYPE=FUGR OR FUNC, RFC_NAME=/BOA/HELPTEXT (if RFC_TYPE=FUGR) or RFC_NAME=/BOA/RFC_GET_HELPTEXT (if RFC_TYPE=FUNC), and ACTVT=16
/BOA/SCREEN_FIELDS_DOWNLOAD	/BOA/UTILITY	This function module accepts the program name as an input parameter and exports the program, screen & field list information. This function module can be primarily used to download the screen field list information for any transaction. This is a Remote Function Module and can be called from an external application.



		SAP Authorizations To successfully execute this Function Module, the user must be granted access to the following authorization objects: ■ S_RFC: RFC_TYPE=FUGR OR FUNC, RFC_NAME=/BOA/SCREENINFO (if RFC_TYPE=FUGR) or RFC_NAME=/BOA/SCREEN_FIELDS_DOWNLOAD (if RFC_TYPE=FUNC), and ACTVT=16
/BOA/CONV_IBAN_2_BANK_ACCOUNT	/BOA/IBAN	Generation of Account Number and Bank Number from IBAN. Uses standard CONVERT_IBAN_2_BANK_ACCOUNT for the conversion. SAP Authorizations To successfully execute this Function Module, the user must be granted access to the following authorization objects: • S_RFC: RFC_TYPE=FUGR OR FUNC, RFC_NAME=/BOA/CONVERSION (if RFC_TYPE=FUGR) or RFC_NAME=/BOA/CONV_IBAN_2_BANK_ACCOUNT (if RFC_TYPE=FUNC), and ACTVT=16

Programs

Object Name	Package	Description
/BOA/ZBDCFILEGET	/BOA/BDCDIRECT	This program examines a specified directory for all files, those files that match a particular pattern or a specific file. It retrieves the list on requested files, moves the files to the parent directory and places the file and new directory information on the queue – table /BOA/ZBDCLOG. If a wait time is specified, after waiting the particular interval, it will repeatedly check the specified directory after clearing it and process new files listed. In this case the program can be terminated by executing program /BOA/ZBDCSTOP with the appropriate settings. SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorization objects: S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'
/BOA/ZBDCSTOP	/BOA/BDCDIRECT	This program sets the value of the "BDCPROCESSSTATE" parameter in the /BOA/ZBOAPARAMS table. The state of this parameter permits the running of the ZBDC process or causes its graceful termination. SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorization objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'



/BOA/ZBDC_CLEAR_HISTORY	/BOA/BDCDIRECT	This program empties the /BOA/ZBDCLOGHIST table based upon parameters supplied on the screen. This prevents excessive table growth. It should be scheduled as a regular job. SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorization objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'
/BOA/ZDIRECTLOAD	/BOA/BDCDIRECT	This program is designed to upload a flat file into a Custom table in SAP. It will read the file from Presentation Server or the Application Server. This program provides an option to either delete existing records and append or just append to the existing records in SAP. SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorization objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT' • S_TABU_DIS: DICBERCLS= <authorization being="" group="" loaded="" of="" table="">, and ACTVT=02 - or S_TABU_NAM as below • S_TABU_NAM: TABLE=<table being="" loaded="">, and ACTVT=02 • S_DATASET: PROGRAM='/BOA/ZDIRECTLOAD', ACTVT='33', FILENAME==<filename in="" provided="" screen="" selection=""></filename></table></authorization>
/BOA/ZLONGTEXTDOWNLOAD	/BOA/BDCDIRECT	This program is used to download long text into a text file. The TextObject and Output file are mandatory parameters. Additionally, specify TextName, TextID and TextLanguage as input parameters. The output file can either be placed on the presentation server or the application server. SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorization objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'
/BOA/ZLONGTEXTDOWNLOADFROMFILE	/BOA/BDCDIRECT	This program is used to download long text into a text file. This is program is an extension of /BOA/ZLONGTEXTDOWNLOAD program. Output file is mandatory parameters. Input file should be tab delimited file which contains TextObject, TextName, TextID, TextLanguage values as row. The output file can either be placed on the presentation server or the application server.



		SAP Authorizations
		To successfully execute this Program, the user must be granted access to the following authorization objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'
/BOA/EXTERNAL_TAXJURIS_ADDRCHK	/BOA/UTILITY	This program returns all tax jurisdiction/district combinations found from input file. You can send in city, state, zip in the input file to return all possible city/district/tax jurisdiction combinations found in vertex. SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorization objects: S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'
		S_RFC: RFC_TYPE=FUGR OR FUNC, RFC_NAME=FYTX (if RFC_TYPE=FUGR) or RFC_NAME=RFC_DETERMINE_JURISDICTION (if RFC_TYPE=FUNC), and ACTVT=16
/BOA/ONLINE_TAXJURIS_ADDRCHK	/BOA/UTILITY	This program is used to check the address using RFC destination function call via screen. SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorization objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'
/BOA/ZTABLEDOWNLOAD_FILE	/BOA/UTILITY	This program downloads data from table into a fixed width or delimited file. SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorization objects: • S_TABU_DIS: DICBERCLS= <authorization being="" group="" of="" queried="" table="">, and ACTVT=03 - or S_TABU_NAM as below • S_TABU_NAM: TABLE=<table being="" queried="">, and ACTVT=03 • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'</table></authorization>
/BOA/ZTABLEDOWNLOAD_SCHEDULER	/BOA/UTILITY	This program is used to schedule SAP table downloads. It checks the table ZTABLEDOWNLOAD to see if there are any tables scheduled for download. If it finds any, it submits a job to execute the program /BOA/ZTABLEDOWNLOAD_FILE. SAP Authorizations



/BOA/IDOC_ANALYSIS	/BOA/UTILITY	To successfully execute this Program, the user must be granted access to the following authorization objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT' This program is used to analyze the IDocs created. We can search the IDocs based on the Created date or using IDoc number. After execution of this program an ALV report is displayed with all IDoc statuses. SAP Authorizations To successfully execute this Program, the user must be
		granted access to the following authorization objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT' • S_TABU_DIS: DICBERCLS=SA,SS, and ACTVT=03
/BOA/IDOC_ANALYSIS_LSMW	/BOA/UTILITY	This program is used to list out all the IDocs created using LSMW. It internally calls /BOA/IDOC_ANALYSIS program to display the IDoc statuses as per the user selection.
		SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorisation objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'
/BOA/CHILDTABLEDOWNLOAD	/BOA/UTILITY	This program is used to download all the fields of the Child table based upon the Parent key field values given in the Input file. 1) Input File (TAB Delimited) – This file should contain the Parent/Header Table key fields (e.g., MARC Table key fields,
		if we are downloading MARD details). The first row of the file should contain SAP field name of the key. The file location can be for Presentation server / Application server.
		2) Output File (TAB Delimited) – After successful execution of the program, the result will be stored in Output File. This file contains all the rows of the Child/Items table data (e.g., MARD) for the above given Parent/Header key fields. The resultant file will contain SAP field names in the first row. The file location can be for Presentation server / Application server.
		3) Table Name -The USER will pass the table name (e.g., MARD).
		SAP Authorizations
		To successfully execute this Program, the user must be granted access to the following authorization objects:



		 S_TABU_DIS: DICBERCLS= <authorization being="" group="" of="" queried="" table="">, and ACTVT=03 - or S_TABU_NAM as below</authorization> S_TABU_NAM: TABLE=<table being="" queried="">, and ACTVT=03</table> S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'
/BOA/SAVE_TEST_DATA	/BOA/UTILITY	This is an include used in some of the function modules that allow for data provided by DSP to be saved into the Test Data Directory of the Function Module. For the data to be saved, an entry must exist in table /BOA/SAVE_TD.
/BOA/SNC_CHECK	/BOA/UTILITY	This is a utility program to check if connections have SNC enabled. This report shows a cross-client list about users, their terminals, the connection type and the SNC status. You can add the profile parameters about SNC to the header of the list. Limitation: The report inspects the current sessions on the current application server only. SAP Authorizations To successfully execute this Program, the user must be granted access to the following authorization objects: • S_PROGRAM: P_GROUP='/BOA/GRP', and P_ACTION='SUBMIT'



Database Tables

Object Name	Package	Description
/BOA/TBLDOWNLOAD	/BOA/UTILITY	Table download status table
/BOA/SAVE_TD	/BOA/UTILITY	Enable Save Test Data for Function Module

Structures

Object Name	Package	Description
/BOA/HELPTEXT	/BOA/UTILITY	Structure to Store Help text
/BOA/SCREENFIELDS	/BOA/UTILITY	Screen Fields List

Data Element

Object Name	Package	Description
/BOA/DE_ENABLE	/BOA/UTILITY	Enable Flag

Transactions

Object Name	Package	Description
/BOA/ZBDCGET	/BOA/BDCDIRECT	Transaction for Program /BOA/ZBDCFILEGET
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects: • /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME=''
		 S_TCODE: TCD=/BOA/ZBDCGET
/BOA/ZBDCSTOP	/BOA/BDCDIRECT	Transaction for Program /BOA/ZBDCSTOP
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects: • /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME=''
		 JOOA/TCODE: ACTVI=10, P_GROUP=1, OBJNAME= S_TCODE: TCD=/BOA/ZBDCSTOP
/BOA/ZDIRECTLOAD	/BOA/BDCDIRECT	Transaction for Program /BOA/ZDIRECTLOAD
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects:
		• /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME=''
		S_TCODE: TCD=/BOA/ZDIRECTLOAD
/BOA/ZLONGTEXT	/BOA/BDCDIRECT	Transaction for Program /BOA/ZLONGTEXTDOWNLOAD
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects:
		 /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME='' S_TCODE: TCD=/BOA/ZLONGTEXT



/BOA/EXTTAXJURIS	/BOA/UTILITY	Transaction for Program /BOA/EXTERNAL_TAXJURIS_ADDRCHK
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects:
		 /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME='' S_TCODE: TCD=/BOA/EXTTAXJURIS
/BOA/ONLINETAXJURIS	/BOA/UTILITY	Transaction for Program /BOA/ONLINE_TAXJURIS_ADDRCHK
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects: • /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME=''
		S_TCODE: TCD=/BOA/ONLINETAXJURIS
/BOA/TABLEDOWNLOAD	/BOA/UTILITY	Transaction for Program /BOA/ZTABLEDOWNLOAD_FILE
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects: • /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME=''
		S_TCODE: TCD=/BOA/TABLEDOWNLOAD
/BOA/DOWNLOAD_SCHED	/BOA/UTILITY	Transaction for Program /BOA/ZTABLEDOWNLOAD_SCHEDULER
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects: • /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME=''
		S_TCODE: TCD=/BOA/DOWNLOAD_SCHED
/BOA/IDOC_ANALYSIS	/BOA/UTILITY	Transaction for Program /BOA/IDOC_ANALYSIS
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects: • /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME=''
		S_TCODE: TCD=/BOA/IDOC_ANALYSIS
/BOA/IDOCLSMW	/BOA/UTILITY	Transaction for Program /BOA/ZBDCFILEGET
		SAP Authorizations
		To successfully execute this Transaction, the user must be granted access
		to the following authorization objects: • /BOA/TCODE: ACTVT=16, P_GROUP=*, OBJNAME=''
		• S_TCODE: TCD=/BOA/IDOCLSMW