Excel4apps Server
Installation Guide (SAP)

excel 4 apps
Excel based solutions for SAP

Wands

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1   System Requirements

Component	Requirements
SAP	ECC6

Note: If you will be installing the Reports Wand server transport then SAP_BASIS 701 SP 0003 is a minimum requirement. This can be checked using the SAP GUI under System>Status>Component Information.

2   Excel4apps Server Component Installation

2.1   Overview

The Excel4apps Wands server component is installed using the standard transport system in SAP. Please see the table below for the correct transport to import into your SAP system. Contained within the transport is also a base authorization role called /EXCEL4AP/EXCEL4APPS as detailed in appendix B. It contains only the basic authorization objects in order to connect to SAP from Excel. This role can then easily be added to your designated users by your SAP system administrator to get the Excel4apps Wands users up and running quickly. It is recommended that the transport be imported into your Development environment first for testing purposes prior to moving onto your Quality Assurance and Production environments.

2.2   Transport information

Typically the task of importing the transports will be performed by your SAP BASIS administrator. There are two files associated with each transport, a cofile (header file) and a data file. The cofile starts with a "K" and is followed by the transport number and the development system extension. The data file starts with an "R" and again is followed by the transport number and the development system extension. **Please do not rename the transport files**. Import them as they are. **The permissions for the files need to be read and write**.

	Transport Description	Transport Number
		ECC6 Systems
1	Excel4apps GL Wand Server 4.21	900212.DM1
2	Excel4apps Reports Wand Server 4.24	900220.DM1

Important Notes
1. **Use the Ignore Invalid Component Version option when importing the transport**
2. **Do not rename the transport files**
3. **Ensure the transport file extensions are in upper case**

4. **If you have a previous version of the Excel4apps Wands please use the Overwrite Originals option when importing this transport**
5. **If you are importing the Reports Wand Server transport please ensure you import the transports listed in the order above**

2.2.1 Copying the transport files to your SAP server

1. Copy the cofiles(header files) to the following directory on the SAP server.

    ★ /usr/sap/trans/cofiles/

2. Copy the data files to the following directory on the SAP server.

    ★ /usr/sap/trans/data/

This can be done at the operating system level if as the BASIS administrator you are familiar with this approach or using the SAP transaction CG3Z.

2.2.2 Importing the transport into your SAP system

1. Go to the Transport Management System using the SAP transaction STMS.

2. Click on the Import Overview icon . (F5)

3. Double-click the queue you wish to add the transport to.

4. In the menu bar, click Extras -> Other Requests -> Add.

5. Use the drop down button to list the transports and click on to select the relevant transport as detailed above.

6. Click on again to confirm the adding of this transport request to the import queue.

7. Place the cursor on the transport that was just added to the queue and click on the icon to import the request.

8. Populate the Target client field and click to start the import.

Once the import is completed and provided the excel4apps_wands_sapx.xx.exe client install has been completed, it should be possible to log-on to SAP from Excel using the new Excel toolbar created by the Excel4apps Excel add-in. As an administrator, your next task would be to request a full use trial key and authorize SAP users for Wand product use/trial. Both of these tasks are done from within Excel. Please refer to the Excel4apps Connector installation and user guide for more details.

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## 2.3 Troubleshooting initial connection to SAP from the Excel4apps Connector

The following section can be used to troubleshoot known issues that arise during the initial connection from the Excel4apps Connector to SAP. The issues usually arise relating to the transport not having been successfully imported or authorizations for the user that are missing. With PC's that use Windows 7 and Vista as their operating system, there is a known issue with Excel closing unexpectedly when connecting to SAP from Wand products due to the SAP Connector 2.0 not handling these errors. The check points below will help to resolve these issues from the SAP server side in order to get connected successfully from the Excel4apps Connector.

If you have imported the transport into the relevant SAP system and experience an error connecting to SAP from the Excel4apps Connector please check the following points to assist.

1. Please run the following transaction in SAP by typing in the SAP command bar exactly as /n/excel4ap/e4atest and click enter.
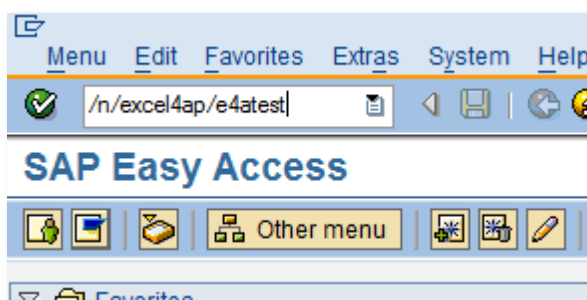
2. If you receive a message that the transaction /excel4ap/e4atest does not exist this indicates that the transport has not been imported into this system successfully. Please ask your SAP BASIS administrator to review the transport import log for any errors and to contact support@excel4apps.com should there be any errors. **Please first ensure though as noted above that the transports were not renamed and were imported as is**. If they were renamed, please import the original transports again to see if this resolves any errors relating to the import of the transport.

3. If the SAP transaction from point 2 starts successfully you should be prompted with a screen looking like the one in the screenshot below with your username defaulted.
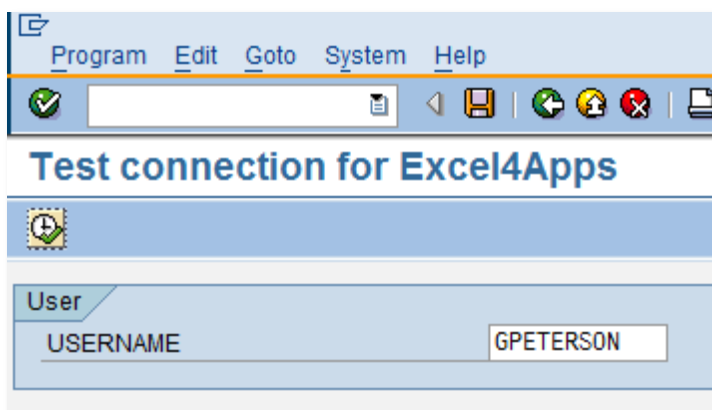
Please click on the execute button to perform the initial connection testing. You may change the user name in this screen to perform the tests for a different user on that SAP system.

Once the program has executed you should see the output of the tests performed as in the screenshot below.

Test connection for Excel4Apps

```
Test connection for Excel4Apps

User  GPETERSON      S_RFC - 0002 Ok.
User  GPETERSON      S_RFC - SYST Ok.
User  GPETERSON      S_RFC - /EXCEL4AP/EXCEL4APPS Ok.
User  GPETERSON       S_TABU_DIS - auth group  FCOR  Ok.
Excel4Apps server functions available Ok.
```

If there are no errors as in the screenshot above then that user should be able to connect to SAP from the Excel4apps Connector without Excel closing unexpectedly.

4. If any errors are experienced such as in the screenshot below please first resolve those in SAP prior to trying to connect to SAP from the Excel4apps Connector again. Please re-execute the SAP transaction until no errors are found.

Test connection for Excel4Apps

```
Test connection for Excel4Apps

ERROR - User  GLWANDTEST    does not have auth object S_RFC, FUGR = 0002, Activity 16 authorisation
ERROR - User  GLWANDTEST    does not have auth object S_RFC, FUGR = SYST, Activity 16 authorisation
ERROR - User  GLWANDTEST    does not have auth object S_RFC, FUGR = /EXCEL4AP/EXCEL4APPS, Activity 16 authorisation
ERROR - User  GLWANDTEST    does not have S_TABU_DIS for authorization group   FCOR  activity 03.
Excel4Apps server functions available Ok.
```

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3 Appendix A: Contents of the Excel4apps Wands Transports

Role	R3TR	ACGR	/EXCEL4AP/EXCEL4APPS
Package	R3TR	DEVC	/EXCEL4AP/
Data Element	R3TR	DTEL	/EXCEL4AP/TEXT50
Data Element	R3TR	DTEL	/EXCEL4AP/TEXT6
Function Group	R3TR	FUGR	/EXCEL4AP/CONNECTOR
Function Group	R3TR	FUGR	/EXCEL4AP/GLWAND
Namespace in R/3 Repository	R3TR	NSPC	/EXCEL4AP/
Program	R3TR	PROG	/EXCEL4AP/CONNECTION_TEST
Table	R3TR	TABL	/EXCEL4AP/72CHARSTRUCT
Table	R3TR	TABL	/EXCEL4AP/BALANCEREQ
Table	R3TR	TABL	/EXCEL4AP/BALANCERET
Table	R3TR	TABL	/EXCEL4AP/EXPORT_STRUCT
Table	R3TR	TABL	/EXCEL4AP/KEY_LIST_STRUCT
Table	R3TR	TABL	/EXCEL4AP/KEY_SELOPT
Table	R3TR	TABL	/EXCEL4AP/LIST_STRUCT
Table	R3TR	TABL	/EXCEL4AP/OUTPUT_STRUCT
Table	R3TR	TABL	/EXCEL4AP/SITE
Table	R3TR	TABL	/EXCEL4AP/CON_F4
Table	R3TR	TABL	/EXCEL4AP/SITE_STRUCT
Table	R3TR	TABL	/EXCEL4AP/USERS
Table	R3TR	TABL	/EXCEL4AP/USER_STRUCT
Transaction	R3TR	TRAN	/EXCEL4AP/E4ATEST
Table Type	R3TR	TTYP	/EXCEL4AP/SELOPT_TABLE
Class (ABAP Objects)	R3TR	CLAS	/EXCEL4AP/CON_SHLP_1
Class (ABAP Objects)	R3TR	CLAS	/EXCEL4AP/CX_GRIA_EXCEPTION
Class (ABAP Objects)	R3TR	CLAS	/EXCEL4AP/CL_REPORTS_WAND_SHLP
Class (ABAP Objects)	R3TR	CLAS	/EXCEL4AP/CL_RWQUERYLISTSEL
Function Group	R3TR	FUGR	/EXCEL4AP/REPORTSWAND
Program	R3TR	PROG	/EXCEL4AP/RW_GETLISTDESC
Table	R3TR	TABL	/EXCEL4AP/LDATA
Table	R3TR	TABL	/EXCEL4AP/MP_S_FIELD_VALUE
Table	R3TR	TABL	/EXCEL4AP/PARAMETER_DETAIL
Table	R3TR	TABL	/EXCEL4AP/QUERY_LISTS
Table	R3TR	TABL	/EXCEL4AP/RNDYF
Table	R3TR	TABL	/EXCEL4AP/RWADDFIELDS
Table	R3TR	TABL	/EXCEL4AP/RWERRORMSG
Table	R3TR	TABL	/EXCEL4AP/RWEXPORTPARAMS
Table	R3TR	TABL	/EXCEL4AP/RWF4DATA
Table	R3TR	TABL	/EXCEL4AP/RWFPAIRS
Table	R3TR	TABL	/EXCEL4AP/RWIMPORTHEADER
Table	R3TR	TABL	/EXCEL4AP/RWLDATA
Table	R3TR	TABL	/EXCEL4AP/RWLDATAMODIF

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Table	R3TR	TABL	/EXCEL4AP/RWLISTDESC
Table	R3TR	TABL	/EXCEL4AP/RWQRY
Table	R3TR	TABL	/EXCEL4AP/RWRSAQSPNAME
Table	R3TR	TABL	/EXCEL4AP/RWSELTABLE
Table Type	R3TR	TTYP	/EXCEL4AP/RWF4DATATT
Table Type	R3TR	TTYP	/EXCEL4AP/TTRWLDATAMODIF
Table Type	R3TR	TTYP	/EXCEL4AP/GRIA_T_SEAHLPRES
Table Type	R3TR	TTYP	/EXCEL4AP/GRIA_T_TAB512

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4 Appendix B: Contents of the Excel4apps Wands Minimum Authorization User Role

The /EXCEL4AP/EXCEL4APPS role contains the following authorization objects:

Authorization Object	Activity	Function/Authorization Group	Purpose
S_RFC	16 (Execute)	0002	Retrieve the list of company codes in the SAP system
		SYST, SYSU, RFC1, RFC_METADATA, RSA0, SDIFRUNTIME, BUS1093, SUSE	Connect to the SAP system via RFC protocol
		/EXCEL4AP/EXCEL4APPS /EXCEL4AP/CONNECTOR /EXCEL4AP/GLWAND /EXCEL4AP/REPORTSWAND	Execute Wand for SAP function modules
S_TCODE		/EXCEL4AP/E4ATEST	Test Excel4apps Wands server set up

No other authorization objects are included in the role so as to preserve the security that has been set up by your system administrator for your users. The purpose of the role is to provide the basic RFC connection requirements to SAP from the Excel4apps Connector. It allows you to easily add this role to your users that will make use of the Excel4apps Wands for SAP to get them connected quickly. Alternatively, add the authorization objects noted above to a role of your choice and ensure the user has that role.

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