



a more effective user work due to integration of SAP and MS Excel

Developer Tips & Tricks









- EasyInput is one of the products from the **BCC EXTRA offering**.
- BCC EXTRA is a set of unique products allowing you to boost the effectiveness of the use of SAP systems at low cost. These are functionalities developed in-house by BCC, enhancing the SAP system standard, and the tools facilitating the SAP system implementation and development.
- We build EXTRA products based on a many-year implementation experience gained while working for different customers from Poland and abroad.

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SAP System Preparation



- To prepare and use EasyInput workbooks one needs SAP authorizations that are described in user's and administrator's manuals (for functional scripts additional authorizations for used function modules can be needed).
- For reading data from SAP with transaction script, or for SAP GUI script apart from authorizations also setting on the mandant level/system level, that is described in user's and administrator's manuals, is needed (in full version this can be omitted via use of BCC function module)
- Sometimes one needs to have certain ports open for EasyInput (depends on the SAP system, usually 33XX port). Please contact your SAP system administrator when experiencing problems with connection.
- Make sure that the SAP system has the required version (ECC 6.0 or later)
- Make sure that EasyInput is properly installed on the workstation (requires windows Vista or later Microsoft system, SAP GUI 7.30 with at least patch 8 and MS Excel 2007 or later)



Before Starting Script Creation



- Check whether the needed script is not part of the EasyInput example scripts pack provided with the installation. The Functional Scripts and simpler SAP GUI/Transaction Scripts usually can be reused in another system. If the script cannot be reused, perhaps it is worth to look at it to get the idea how to prepare one's own.
- Decide whether it is better to record a transaction (SAP GUI or SHDB) or use a BAPI function module (BAPI). Although the use of BAPI functions module can be a bit more difficult, the functional scripts are less system/ version dependent and will probably require no maintenance in future.
- Look up the <u>http://easyinput.net</u> forum (especially the FAQ part) to check whether there are any clues how to prepare the given script. If there are not enough information one can try asking other forum users on the EasyInput Discussion Room panel.



EasyInput Workbook Creation – General Rules



- If there exists an example EasyInput workbook that fulfills one needs one can test it/adjust if necessary.
- If there is no suitable example then one should open the new EasyInput Template and start creating their script from scratch.
 - For business users SAP GUI/ transaction scripts can be easier to create, as the users are familiar with business transactions within SAP
 - For users with IT knowledge, it is recommended to create functional scripts based on BAPI modules when possible. Such scripts are easier to move them between systems and will require less maintenance effort in case of upgrades, other system changes.
- An EasyInput workbook should, if possible, implement both test and actual run. This facilitates further processing when lots of data needs to be processed quickly.
- After EasyInput workbook testing, unnecessary configuration worksheets should be hidden (see the relevant button on the EasyInput ribbon menu)



EasyInput Workbook Creation – Order of Worksheets Fulfillment



Data

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* The order of two first worksheets can be swapped

EasyInput Workbook Creation – Order of Worksheets Fulfillment 1/7

- Fill in EI_Logon information at the beginning so that all the functionalities requiring connection to SAP system could work
- Before going to script details (EI_Script_XX) fill in the script general information (EI_ScriptName) to set the script name, ID and type. Script ID will be needed on the script details worksheet.
- It is recommended to generate the headings of the data worksheet (EI_Data) on the base of script definition. Than, the order of data columns can be adjusted to user's needs.
- General workbook configuration (EI_Config) can usually be done at the end.
- When the script is tested one can hide the configuration worksheets as they are no longer necessary. Only the EI_Logon and EI_Data worksheets will stay visible.



EasyInput Workbook Creation – Order of Worksheets Fulfillment 2/7

Fill in EI Logon information at the beginning so that all the functionalities requiring connection to SAP system could work

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1 2	A	В	с	
+ 5	BCC EasyInp	ut - Logon E	- Data - Worksheet template	
6	Parameter	Value	Description	
7	USER	siwieck	An SAP user ID	
9	LANG		Language	
10	SAPROUTER		Optional. Used when connecting through a router.	
11	CODEPAGE		Optional. Only needed for non unicode systems.	
13	General logon data			
14	SNC_LIB		Full path and name of third-party security library for SNC communication.	
15	SNC_MYNAME		Token/identifier representing the external RFC program.	
16	SNC_PARTNERNAME		Token/identifier representing the backend system.	
17	SNC_QOP		Use one of the following values:1: DS., 2: DS.+E, 3: DS.+E+UA, 8:Default, 9:Maximum	
20	SNC logon data			
21	SYSID	PRD	Name of SAP system	
22	ASHOST	prd.bcc.com.pl	Host name of a specific SAP application server	
23	SYSNR	21	SAP system number	
24	CLIENT	100	The Client to which to logon	
30	SAP System using a specific a	application server		
31	SYSID		Name of SAP system	
32	MSHOST		Host name of the message server	
33	GROUP		Optional. Group name of the applicationservers	
34	CLIENT		The Client to which to logon	
40	SAP System using load balan	cing		
•	EI_ScriptName EI_S	cript_FM EI_Script_TR	EI_Config EI_Log (+) : (•
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EI_Logon entry example for specific application server

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2	A	В	C		
5	BCC EasyIng	out - Logon	Data - Worksheet template		
6	Parameter	Value	Description		
7	USER	siwieck	An SAP user ID		
9	LANG		Language		
10	SAPROUTER		Optional. Used when connecting through a router.		
1	1 CODEPAGE		Optional. Only needed for non unicode systems.		
13	3 General logon data				
14	4 SNC_LIB		Full path and name of third-party security library for SNC communication.		
1	5 SNC_MYNAME		Token/identifier representing the external RFC program.		
16	5 SNC_PARTNERNAME		Token/identifier representing the backend system.		
17	7 SNC_QOP		Use one of the following values:1: DS., 2: DS.+E, 3: DS.+E+UA, 8:Default, 9:Maximum		
20	0 SNC logon data				
2	1 SYSID		Name of SAP system		
22	2 ASHOST		Host name of a specific SAP application server		
23	3 SYSNR		SAP system number		
24	4 CLIENT		The Client to which to logon		
30	SAP System using a specific application server				
3	1 SYSID	PRD	Name of SAP system		
33	2 MSHOST	prd.bcc.com.pl	Host name of the message server		
33	GROUP	PRD_CM_Group	Optional. Group name of the applicationservers		
34	4 CLIENT	100	The Client to which to logon		
40	SAP System using load bala	incing			

EI_Logon entry example for group load balancing



EasyInput Workbook Creation – Order of Worksheets Fulfillment 3/7



EasyInput Workbook Creation – Order of Worksheets Fulfillment 4/7

Fill in the EI_Script_XX worksheet (GS for SAP GUI TR for transaction and FM for function sctipt). For details see separate PDF tutorials on each script type.



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EasyInput Workbook Creation – Order of Worksheets Fulfillment 5/7

When the headings of the data worksheet (EI_Data) are generated on the base of script definition, than the order of data columns can be adjusted to user's needs. Only columns AA and higher can be used for data. The columns A-Z are reserved.

Use *Column tools* to change the order of the One can put here constants separated with comma columns (this will effect in changes to both the sign (e.g. 1000;1001). These will be used when data and on the El_Script_XX worksheets. generating the headings automatically once more. Example FI Posting 200.xlsx -The Excel possible value help for the column would ALZN DEWELOPER Krzysztof Siwiec 🔹 be created from these values. Swap EasyInput script column column column When F4 help does not work as expected, the EasyInput Column tools pair table-field can be adjusted. In special AC4 cases explicit SAP search key can be added. + + + + + 2 3 EG EH вкр ACAR09-CUSTOMEF ACGL ITEM-HKONT ACGL ITEM-HKONT BAPIACAP09-VENDOR N BAPI ACGL ITEM-WRBTR(01) 2 CHAR-10 CHAR-10 CHAR-10 CHAR-10 CURR-16 1234567890 1234567890 3 1234567890 1234567890 1234567890123456 4 Manual value list BCC EasyInput - Data - FI Posting 5 8 Vendor iten Tax item Amounts Q Order Created DocNc Company Code G/L G/L Level Only descriptions in row 9 are generated **(+)** ExampleInfo EI ScriptName EI_Script_FM EI_Config EI_Logon EI Data 4 1 automatically. The descriptions in row 8 can be added GOTOWY SCROLL LOCK manually.

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EasyInput Workbook Creation – Order of Worksheets Fulfillment 6/7

General workbook configuration (EI_Config) can usually be done at the end.



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EasyInput Workbook Creation – Order of Worksheets Fulfillment 7/7

When the script is tested one can hide the configuration worksheets as they are no longer necessary. Only the EI_Logon and EI_Data worksheets will stay visible.



When Developping a Script



- When creating the transaction scripts the BDC_CURSOR rows, and in SAP GUI scripts the setFocus rows, should not be linked with the data worksheet via WriteData. BDC_CURSOR stands for cursor positioning or for reading data from SAP (ReadData) not for transferring data to SAP.
- When creating the **functional scripts** at the beginning, the script rows are set to inactive ("X") in the Inactive column.

Remember to remove the "X" for linked rows!





Unprotecting EI_Script_TR or EI_Script_FM worksheet



- All the EI_Script_XX (GS/TR/FM) worksheets are protected. To change formatting of the cell (useful when one wants to put formula in the column "Field Value") or to delete unnecessary rows one has to switch the protection off.
- To switch the protection of the worksheet off, please select the "Review" ribbon and click the "Unprotect" button. Remember that when saving the workbook the protection will be set on again!





How to Debug a Script



- SAP GUI/ Transaction Script one can switch on the debugging for all screens to see, what actually the script is doing. It facilitates discovering errors in the script. When in debug mode, only the first data record (transaction) is processed.
- Functional Script also for functional script debugging option is available. It produces the additional worksheet (EI_Debug) with parameters that are passed to the functional module (be careful, this parameters are in external format). The functional module can be then manually tested in SAP GUI with transaction SE37.





MS Excel "Edit mode"



When a user double clicks on an Excel cell or presses F2 after selecting the cell the Excel enters the so called "Edit mode". In this mode the user can change the cell value.



- When the Excel workbook is in the "Edit mode" many actions on workbook are not allowed. This means almost none of the EasyInput functionality will run while in "Edit mode". Therefore, when in "Edit mode" many EasyInput buttons are disabled.
- To start any EasyInput action while in "Edit mode" one has to close the "Edit mode" using key "ESC" on the keyboard or by selecting another cell with the mouse click.



Excel refresh problem



- MS Excel in some versions has sometimes problems with refreshing worksheets switched by code.
- Do not panic! Go back to the EasyInput workbook and select another worksheet on the workbook. Than return to the original worksheet it should repair the refresh problem.





F4 Search Help not Working



ВСС

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- If it is not working in MS Excel at all, please patch the SAP GUI version
- If it is not working for a given column on the data worksheet than one can try to exchange the contents of the row 1 for that column with another field-table pair or with the technical ID of ABAP search help (one can find it perhaps in another transaction that uses the same field, by selecting the field, pressing F1 and choosing "Technical information").



Want to add easily standard MS Excel value help?



- To add standard MS Excel value help for data column:
 - Put possible values separated by comma in the 4th row of the data sheet
 - Go into EI_Script worksheet and "Create references in data sheet columns"
 - The standard MS Excel value help for the column is generated
 - It can be deleted or updated similarly by running "Create references in data sheet columns"







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