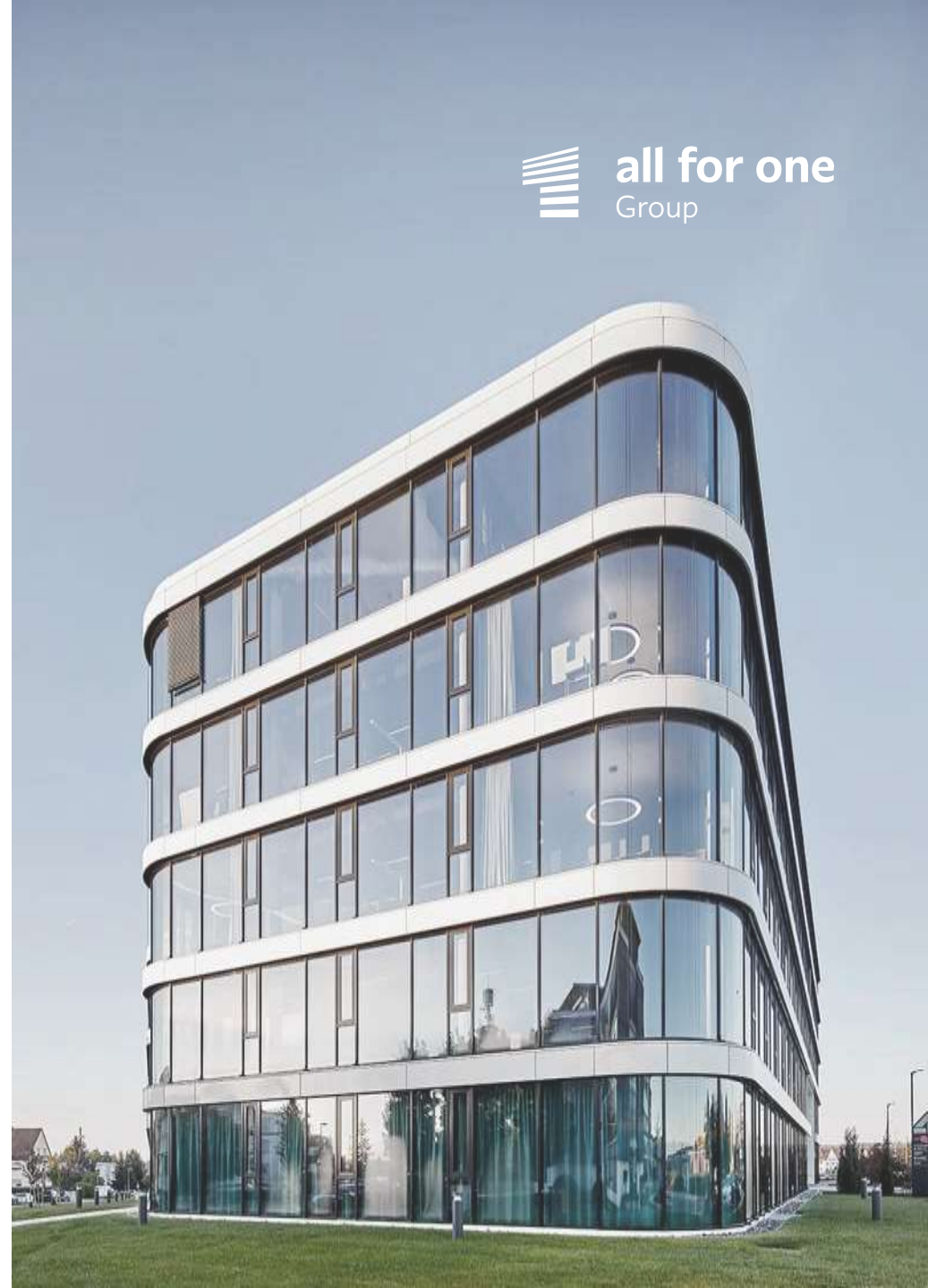


EASYINPUT

COMPLEX SCENARIOS

VERSION 4.XX

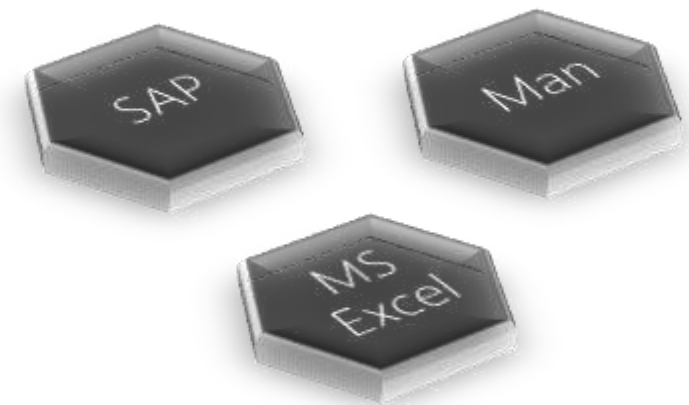
 all for one
Group



SOLUTION SUMMARY



- EasyInput allows **performing SAP transactions / functions** on the base of data stored in **MS Excel** files.
- With one button click one can **migrate from Excel to SAP** thousands of master data records, postings or purchase order documents.
- EasyInput has also the functionality to **read data from SAP transactions / functions/ OData services**.
- EasyInput can replace the standard SAP migration framework (LSMW/ Migration Cockpit) and sometimes replace the SAP GUI/ NWBC/ Fiori itself.



COMPLEX USE SCENARIOS

IN MOST CASES EASYINPUT USES ONE SCRIPT PER EASYINPUT WORKBOOK. THE STANDARD SCRIPT DEALS WITH ONLY ONE TRANSACTION/ FUNCTION MODULE. HOWEVER MORE COMPLEX SCENARIOS CAN BE IMPLEMENTED:

- Non-standard EasyInput workbook formatting – e.g. workbook designed and optimized for one financial document
- One script calling more than one transaction/ function, one after another
- Several scripts selected/called manually for managing the data gathered in EasyInput workbook
- Standard EasyInput script functionality extended with custom Visual Basic for Applications (VBA) macros
- VBA macros using actively EasyInput API to communicate with SAP



NON-STANDARD EI WORKBOOK FORMATTING

EXAMPLE OF WORKBOOK DESIGNATED AND OPTIMIZED FOR ONE FINANCIAL DOCUMENT



See example workbook: EI_TR_Ex_FI_GL_OneDocFormatted.xlsx

The screenshot shows an Excel spreadsheet titled 'EasyInput_TR_Example_FI_GL_OneDocumentFormatted_200.xlsx'. The 'EasyInput' ribbon is active, showing a script named 'FI Document posting' with a run type of 'AN - Actual Run On New'. The formula bar contains '=JEZELI(AA27="";"";AA27)'. The spreadsheet content includes:

- Cell B5: 'Posting Document' with value '100000325'.
- Section 'Document Header' (rows 16-21):

Date	2014-05-31	Calculate VAT	
Doc. Type	SA	Currency	EUR
Company Code	0001	Reference	Reference text
		Header Text	Header text
- Section 'Difference' (row 24): 'Difference :'
- Table of line items (rows 26-33):

D/C	Account	Amount	VAT	Business Area	Cost Center	PC	Partner	TAType	Posting Text	Order
S	400000	10000,89	V0		C001					
H	400001	10000,89	V0							
S	400000	10000,00	V0							
H	400001	10000,00	V0							

Document ready to be printed for archivization after posting

ONE SCRIPT CALLING MORE THAN ONE TRANSACTION/ FUNCTION ONE AFTER ANOTHER



In order to use more than one transaction/function within one script, one can just put next transaction/ function directly below the previous one on the EI_Script_XX worksheet. Assigning these two or more transactions/functions to one script will result in calling them consecutively for each script document. This technique was used in EI_TR_Ex_MM_PurchaseRequisition.xlsx demonstration workbook where ME21N transaction was chained with ME54N.

Script ID	Run Type	Level	Order	Inactive	Program	Screen	Start ID	Field name	Field value	Field desc
400	ME51N	T - Test	0					BOC_SUBSCR	SAPMEG01	330350B2
401	ME51N	T - Test	0					BOC_SUBSCR	SAPMEG01	33257ABSTRIPCONTROL150B
402	ME51N	T - Test	0					BOC_SUBSCR	SAPMEG01	332480B0
403	ME51N	T - Test	0					BOC_SUBSCR	SAPMEG01	332650B0
404	ME51N	T - Test	0					BOC_SUBSCR	SAPMEG01	332550B1
405	ME51N	T - Test	0		SAPLSP01	0100	X			
406	ME51N	T - Test	0					BOC_ONCODE	WFO	
407	ME51N	A - Actu	0					ME54N		
408	ME51N	A - Actu	0		SAPMEG01	0014	X			
409	ME51N	A - Actu	0					BOC_ONCODE	/EHECANC	
410	ME51N	A - Actu	0					BOC_SUBSCR	SAPMEG01	001090B0
411	ME51N	A - Actu	0					BOC_SUBSCR	SAPMEG01	003050B0
412	ME51N	A - Actu	0					BOC_SUBSCR	SAPMEG01	200150B0



SEVERAL SCRIPTS SELECTED/CALLED MANUALLY FOR MANAGING THE DATA GATHERED IN EASYINPUT WORKBOOK

- Sometimes use of more than one script per EasyInput workbook can be useful. This technique was used in EasyInput_TR_Example_MM_Material_200.xlsx demonstration workbook where there are three scripts for:
 - Creating material
 - Changing material
 - Reading material master data
- The user can switch manually among these scripts selecting task to be performed.

Script name: Material read

Run type: Material creation, Material change, Material read

Many scripts in one EasyInput workbook

MM03: EasyInput test run has ended. The number of transactions processed: 4 (1 with errors) / 2014-05-13 11:03:19 BE6(100)

Test run		Actual run	
Status	Messages	Status	Messages
OK			
OK			

Material	Industry s	Material T	Plant	Sales Org.	Distr. Char	Descriptio	Base U
EI_MAT17	M	VOLL	1000	0001	01	Material	S2T
EI_MAT18	M	VOLL	1000	0001	01	Material	S2T



EASYINPUT SCRIPT FUNCTIONALITY EXTENDED WITH CUSTOM VISUAL BASIC FOR APPLICATIONS (VBA) MACROS

- Sometimes standard EasyInput functionality can be insufficient for the specific user task. Fortunately EasyInput can be easily extended with VBA macros. In order to link VBA macros to EasyInput scripts on the EI_ScriptName worksheet macros called before or after a script can be given.
- This technique was used in EI_FM_VBAEx_BeforeAfterMacros.xlsm demonstration workbook where macros Before_CI, After_CI, After_CB are linked.

EasyInput

Script name: CustomerInfo
Run type: TR - Test Run

Process EasyInput script

Show/hide configuration

EasyInput info

VBA macros integrated with the script

Description	Script ID	Script type	Mode (optional)	VBA Macro executed before script (optional)	VBA Macro executed after script (optional)
CustomerInfo	CI	FM - Function script		Before_CI	After_CI
CustomerBalance	CB	FM - Function script			After_CB

VBA MACROS USING ACTIVELY EASYINPUT API TO COMMUNICATE WITH SAP



- In order to incorporate EasyInput functionality into an VBA project EasyInput VBA Application Interface (API) was developed. This API allows reading and setting customizing and runtime parameters as well as calling EasyInput scripts.
- This technique was used in EI_FM_VBAEx_ButtonMacro.xlsm demonstration workbook where macro Button_Refresh linked to the button "Refresh data" allows refreshing customer report using EasyInput SAP connection.

EasyInput reporting example (VBA macro)

Company Code: 0001
Customer from: 0 to: 7777777777
No of top balances: 10
Currency (*): *

Refresh data

The button starting macro using EI VBA API

Customer ID	Customer Name	Balance LC	Loc.Curr.	Trans.Curr.	%
7	Klient 2	523 242,79	EUR	EUR	39,01
62	Klient 3	451 205,20	EUR	EUR	33,64
64	Klient 5	113 082,60	EUR	EUR	8,43
6	Klient 1	95 329,18	EUR	*	7,11
1	Klient 3	63 871,48	EUR	EUR	4,76
110	Adampol	29 274,00	EUR	EUR	2,18
63	Klient 4	22 841,56	EUR	EUR	1,70
CUST1	EWM	15 000,00	EUR	EUR	1,12
112	Bartimex Sp. z o.o.	9 945,72	EUR	EUR	0,74
59	dfdf	3 000,00	EUR	EUR	0,22

READING DATA FROM ALV GRID



- SAP GUI scripts can extract data from any ALV (ALV Grid). This means, one can easily read SAP documents data, master data lists, line item reports and even any SAP table data.
- Example of SAP GUI script to read data from any SAP table (with internal loop allowing to read data regardless of number of table rows) is given in the template: EI_GS_Ex_ReadTable_SE16.xlsx

The screenshot shows an Excel spreadsheet titled 'EI_GS_Ex_ReadTable_SE16.xlsx'. The 'EASYINPUT' tab is active, displaying a toolbar with icons for 'Process EasyInput script', 'Stop EasyInput script', 'Show/hide configuration', 'Delete result messages', 'Delete data area', 'Data pre-check Checks', 'EasyInput help Info', and 'EasyInput info'. Below the toolbar, the spreadsheet content is visible, starting with a red header row: 'BCC EasyInput - Data - SE16 Get Table'. The data table has the following structure:

TABLE	MAX ROWS	RowNo	ColNo	Table data																	
BKPF	10000	1600	113	100	0001	0100000	2014	SA	12.02.2	12.02.2	2	18.06.2	08:13:04	12.02.2	SIWIECK	FB50				0000	
				100	0001	0100000	2014	SA	23.03.2	12.02.2	2	18.06.2	12:47:13	12.02.2	SIWIECK		TEXT 1			0000	
				100	0001	0100000	2014	SA	23.03.2	12.02.2	2	22.06.2	16:59:14	12.02.2	SIWIECK		REFERENCJA 1			0000	
				100	0001	0100000	2014	SA	21.04.2	21.04.2	4	29.06.2	15:04:17	21.04.2	SIWIECK	FB01				0000	
				100	0001	0100000	2014	SA	21.04.2	21.04.2	4	29.06.2	15:04:20	21.04.2	SIWIECK	FB01				0000	
				100	0001	0100000	2014	AB	31.05.2	31.05.2	5	30.07.2	12:34:25	31.05.2	SIWIECK		REFERENCE TEXT	0100000	2014	H	
				100	0001	0100000	2014	AB	31.05.2	31.05.2	5	30.07.2	12:35:10	31.05.2	SIWIECK	FB08		REFERENCE TEXT	0100000	2014	H
				100	0001	0100000	2014	AB	31.05.2	31.05.2	5	30.07.2	16:47:26	31.05.2	SIWIECK		REFERENCE TEXT			0000	H



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