

IBIP Tool for SAP Training Guide



Deliver By





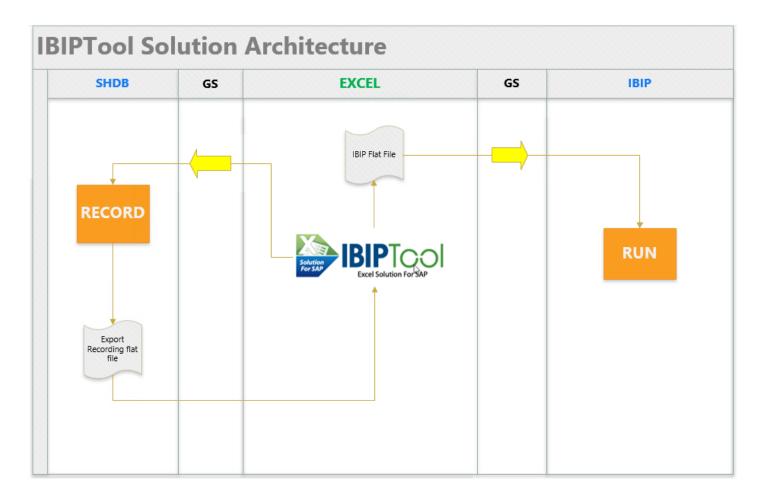
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1. IBIP Tool

Welcome to SY-Bright **IBIPTool**, Thank you for using SY-Bright IBIPTool, IBIPTool is a new simple tool SAP automation tool which dos e not requires RFC Authorization. Primary function of the IBIPTool is to upload data from Excel to SAP.



Uploading Excel data to SAP Transaction is widely used. Some of the common tasks that IBIPTool can perform are: ,

- Uploading information to complex SAP transaction
- Templates management and much more
- Running several tasks one after another using same or separate dataset thus executing a process. We strongly suggest that you start with Step-By-Step Tutorials



Transaction Tutorial - Introduction This Tutorial explains and walks you through basic concepts behind IBIPTool. IBIPTool can run almost any SAP R/3 transaction without any RFC Authorization using IBIP Transaction

We will take a simple example of updating material master in SAP. This example will help you understand steps involved in loading data from Excel to SAP R/3 transaction using IBIPTool. One has to perform following steps while working with IBIPTool:

A. Decide what needs to be done. Decide which SAP transaction is most appropriate for given task.

- B. Prepare an Excel Spreadsheet " Get ready with the data to upload.
- C. Show IBIPTool how to do it once Record a sample transaction.
- D. Remove non required fields from the generated template
- E. Test run
- F. Production run

Once you understand the given example, you can run almost any SAP transaction using same method in IBIPTool. Also note that IBIPTool can execute transaction in any SAP modules. For example, you may want to update material master, print an invoice, create transfer requirement, delete bills of material, change personnel record, etc. Once you broadly decide what you want to do, you then need to pin point what should happen within that transaction. For an example, you need to change material master, further you need to decide which fields need to be update in which plant. You will also need to know exact SAP transaction code to perform this task. For example, let's presume that we have list of few hundred materials where we want to change Gross and Net weights in material master records in basic data view. We will use SAP Transaction code MM02. Next Step Data File for Recording Data File for Upload It is presumed that you already know what you want to change and you already have all the required

data in Excel file. If you do not have required data in Excel, you might want to work that out before

you start.



1.1. Set up Step 1- Implement IBIP customer exit

The IBIP Tool Integrate Excel VBA with the IBIP transaction with SHDB and Gui Scripting

(See SAP help IBIP documentation:

"if you want to use a transaction for data transfer which is not supported in IBIP, you can enter the coding for it in the customer exit. For this, read the customer exit documentation.

You also have the option of creating a program automatically for data transfer using the batch input recording tool (transaction SHDB). You can use this as a copy model for your coding in the customer exit.")

Step 1- implement user exit IBIP (transaction CMOD)

Step 2- implement following ABAP Code

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89	ENDFUNCTION.
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11					
12	FREE int_tab.				

*& Include ZXPMZU01

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CLEAR: i_bdcdata[] , i_bdcdata ,bdcdata[].

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ENDIF.

FREE int_tab.



1.2. Set up Step 2- Required SAP authorizations

- IBIP Authorizations for transaction IBIP for data upload , step by step run ,background run , test run
- IBIPA handling and IBIPA for log tracking and logging purpose and Error handling
- IBI2 Required for background / schedule jobs
- SHDB fro scripts Developer

PFCG Display Role: Authorizations	
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1.3. Set up Step 3 - GUI Scripting (Optional)

IBIPTool provides access to the SAP system using the SAP GUI Scripting mode, In order to use GUI Scripting, you SAP server must have enabled this option. Check if GUI Scripting is enabled or not, follow these simple step. Bring your SAP logon pad and click on any system that you want to perform this check. You do not need any logon information for this system. Once initial logon screen comes up, click on "Option" in you SAP GUI and check and see if you have "Scripting Recording and Playback" enabled or grayed out. Below is an example where GUI Scripting is enabled. You can use GUI Scripting process on this Open the Options dialog box from the main GUI screen.

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1.4. Set up Step 4 – Language Select

Select the required Ribbon language

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5	<u>Text File</u>	1264	80007251							Spanish language



1.5. Set up Step 5 – Recording Default Folder

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1.6. Set up Step 6 - SAP PARAMETR ID

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Parameters		
SET/GET Parameter ID	Parameter value	
AQB	ZPM	33
GR8	H:\IBIPTOOL	
2 GR9	H:\IBIPTOOL	
IHG	52	

SAP parameter ID - update two parameter **GR8** and the **GR9** - the value of these parameters are defines in 3.2



1.7. Set up Step 7 – System select

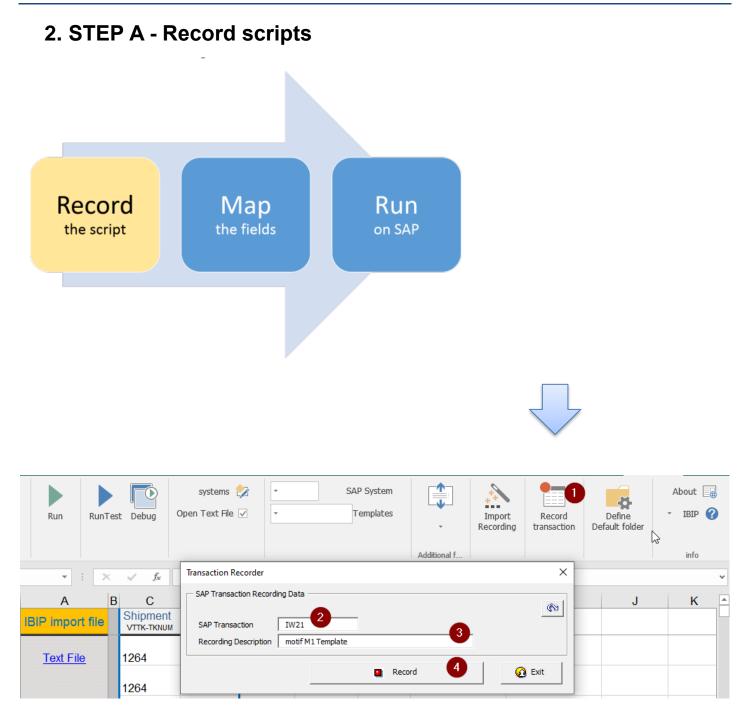
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SAP system will be imported automatically ' it is possible to delete rows and keep just the required systems for use it is possible also to change the order of the systems in Column A in the "SYSTEMS" worksheet sheet

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2.1. Recording in SHDB

SHDB records each screen you go to and each field you change. It also captures actual data you enter into the SAP transaction. This all happens in your familiar SAP GUI. This process is called recording. Once recording is complete in SAP GUI and the recording file is exported to the default folder , After you Return back to IBIPTool and import this recording , the recording information will wukk automatically crate template in the "recorder" sheet

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Hints:

1. SAP GUI displays "Recording running....." at bottom left corner of the screen as you execute the transaction. You will see this progress bar throughout you execution of the transaction.

2. It is important not to make any mistake while executing recording, as IBIPTool will run this transaction exactly the way you record. For this reason, In case of any mistake, exit out of the transactions and restart the recording from "New Wizard" again.



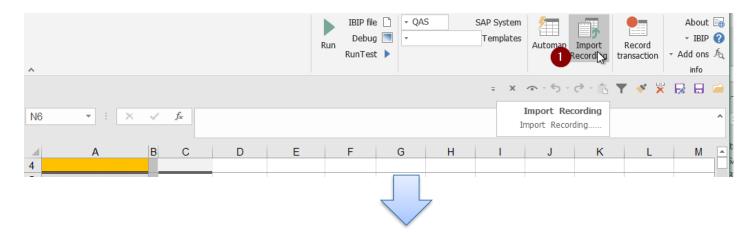
3. The best practice is to check transaction and test data in target system, before you start recording. This will ensure that your recording of the test transaction will go without any issue.

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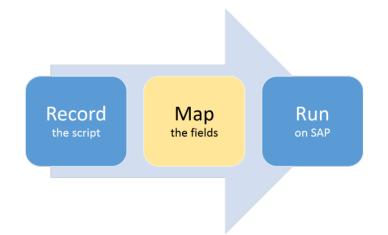




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3. STEP B - Template prepare



3.1. Delete Non required Columns(Fields) – Option 1

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3.2. Clear or Reset Non required fields – Option 2

If content of fields in the excel are empty from content then these fields are excluded from the update

process , if it required to clear the field value , use the char "!"

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3.3. Automap – Optional

The button copy paste data from another sheet to the "recorder" sheet

it required 2 lines header which require to be full , one of them should be

filled with the technical name of the field, The Technical field name is at row 2 (It visible after using the "eye" button)

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IBIPTOOL GUIDE

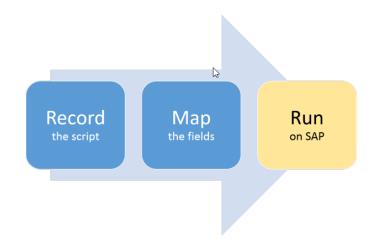
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The data is filled automatically in the recorder sheet, if filed is not found in the recorder sheet then this field header at the data sheet will be marked in color.

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4. STEP C : Run



- -Choose the required SAP system
- -Open SAP session in this system before start .
- Selecte the require rows to be run (if non of the row selected the all the rows will be executed)
- this is usfull especially fro error handleing of it is iequire dto run again only spesific row
- Press on "run" button

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7		10973138	desc		Delete Source: 2 transactions si							6			
8		10973139	desc		2 successful trai							8			
9															

4.1. Debug Run

					Run RunTest	Debug Oper	systems 🎲 n Text File 🗌	• DEV	Choos	GAP System e Template mplates 📴	Save recording
• : X	√ fx	Text File									
A E	Notifctn	Descrptn VIQMEL-QMTXT	F G y Date Room AM VIQMEL-QMDAT LOA-MSGRP	H Sort fld ILOA-EQFNR	l ₿	J	К	L	М	Ν	0
Text File	10973241 10973242	desc desc		3							
	10973138 10973139	desc desc	3	3 a Is En <u>v</u> ironment	System <u>H</u> elp						
-		=10\TABO IW22 220		🔉 i 🗁 🖍 🔥 i 🎗 n: Maintenance	19991	2 2 🖳			_		
		Notification Notific. Status Order Notification Reference object Functional loc. Equipment Assembly	10973241 M1 desc OSNO Reference object Malfunction	IW22 220 Chang	ye PM Notification	2 		Action bo	ix ution Database ate Internal Not Telephone Call of Confirmation ate Quality Noti	of Receipt	

Th debug option display each recording step so it is possible to capture which value is updated step by step



to continue press enter in the small popup window which show the function code for each screen In order to exit the processing enter in the popup window "/NIBIP"

4.2. Test Run

^					Run P	st Debug	systems 🎲 n Text File 🗌	DEV✓	SAP System Choose Template Delete Templates 💬	
A5 - : × ~	∫ <i>f</i> ∗ Text F	ile								
AB		D E	F G	Н	L I	J	к	L	M N	
IRIR import file	lotifctn Des	scrptn Report by	Date Room	Sort fld						
5 <u>Text File</u> 10	973241 desc	.	33	3						
6 10	973242 desc	2	3	3						
	973138 desc 973139 desc		3	3						_
9 10 11		Er Log Edit Got		ي 1 1 1 1 1 1 2 1 2 8	19921					
12 13 14		IBIP 220 Dis	p lay logs ∞All incorret again ि	Save errors 🔍 🔞	ଝ Technical Infor	mation 🚺				
15 16		Date/Time/User	Nu	External ID Object	t text Subol	bject Text Tran			Log number	
17 18		• 🛆 Problem clas	s Other 7	IW22-TEST Applica	tion Log	IBIP	SAPLIBI	Dialog pro	. 000000000000110€	
19 20			· · · · · · · · · · · · · · · · · · ·		 ■0 ● 0 △1	6			••	
21 22 23		Ty Message Text Test run complet	ted Successfully:				Order			
24 25		Information SourInformation Path	ce: Presentation server file : H:\IBIPTOOL2\bdc_reco				3			
26 27 28		 Delete Source: 1 transactions stations 1 transactions with transactions 					5 6 7			

If enh. is done by (8.1) the result will be green message .

An alternative is to filter from the ALV the word "TESTRUN" which indicate Test run completed Successfully

4.3. IBIP File

		Run	IBIP file Debug RunTest	—		GAP System Templates		Import R	Lecord nsaction	About 등 → IBIP ? → Add ons た info
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C Notif.type RIW000-QMART	D Descrptn VIQMEL-QMTXT		F	G	Н	I	J	К	L	M
M1 M1	desc1 desc2	Ziv Ziv								



5. -----Additional functions -----

5.1. Choose existing template

			Run	IBIP file Debug		✓ QAS			vstem plates	Aut	omap	Impo Record		Reco transac	rd	• Ad	lbout IBIP d ons info	0
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			1030_				ernal Orde	r										
×	f _x		-	_Change Co E32L_Chang	ost Ele	ement Ac	tivity Inpu Agreemen	t										^
с	D	E				_	Create RF(- III			J		К				М	
Notif.type RIW000-QMA	e Descrptn	Repor	MEK1	MEK1_Creat Create Co	nditio	n Record		a		T	J	T	N		L		IVI	Ē
M1	desc1	Ziv		1.11	_		ate Materia											
M1	desc2	Ziv				_	ige Materia											
M1	desc3	Ziv				MR21_Pr	ice Chang	e										
M1	desc4	Ziv			P	A30_Inf	oType022	1										
M1	desc5	Ziv					ion Chang											
M1	desc6	Ziv					pection Lo											
M2	desc7	Ziv	VBO1	Rebate A VD			condition comer-Sale											
				VK	11_Co	ndition R	ecord Nev	v										
			VT02N	I_Change S	Shipme	ent(Assig	n_Delivery)										
I																		ll ₹ l

6. Template management

6.1. Save as template

▼ QAS	_	AP System Templates	Automap	Import Recording	Record transaction	About ि → IBIP ? → Add ons ૠ
		⇒ x	م ، ج		Edit Re	cording 🛒
				A	dd Field Deso	cription
G	Н	I	J		Update Dic	tionary
				1	Field Descrip	tion DB
				Save rec	ording As te	emplate



6.1. Add local description and comment - Optional

▼ QAS	SAP System Templates	Automap	Import Recording	Record transaction	About 📑 • IBIP ?
	÷ X	م ، ج		Edit Re	cording
			A	dd Field Deso	ription
G	H I	J		Update Dic	tionary

IBIP file Debug RunTest	· ·	SAP System Templates	Automap Import Recording	Record transaction	About 📑 - IBIP ? - Add ons 🏂 info
	F	÷ X	へ 、 ち、 ぐ、 🔓	T 💉 🎽	i 😡 🖯 🧀
	Update customize	ed header for SAP Fiel	ds name	×	^
F	SAP Table / Structu SAP Field Name	ure VIQMEL QMNAM			M
	Description	notificat	ion type		
	Comment	This test	t will be added to the cell of	comment	
		🕒 Generate Custi	ume header (🔒 Exit	





~	Run	IBIP file Debug RunTest		 QAS ▼		9 System emplates	Automap	Import Recording	Record transaction	- I	out 词 BIP 🕜 ons ⁄a fo
						≠ X	<u>^</u> 5	- I - 💼	🔻 💉 🏅	K 🕞 I	
B1		• :	×	√ <i>f</i>	°.						^
	A		В	С	D	E		F	G	Н	
	IBIP imp	ort file	Ī	lotif.type	Descrptn	notifica type		his test will o the cell co			
4				WO00-QMART							
5			M	1	desc1	Ziv					
6			M	1	desc2	Ziv					

6.2. Load description from file – Optional

		P System		d Description [Edit Reco	
	✓ Choose T	Template	Save record	ling As templat	te 🔚 🛛 Ad	ld Field Descrip	otion 🛒
-	Delete Temp	olates 🔀				Update Dictio	onary 🕎
				Additional fur	ctions - Templat	e update	
		1					
	D	E	F	G	Н	<u> </u>	J
		Company	Business	Object	Profit	cost cntr	Req.cost
	Description	Code	Area	Class	Center	COAS-	center
	COAS-KTEXT	COAS-BUKRS	COAS-GSBER	COAS-SCOPE	COAS-PRCTR	KOSTV	COAS-AKSTL
Proto	type Production Order	1000	1	PRODT	1000	1000	1000



6.3. Templates delete

- QAS		System	1			About 🕞	
*	I en	nplates	Automa	p Import Recording	Record transaction	 IBIP ? Add ons 𝑘 	
	÷	x	م ، چ		Edit Re	cording 🛒	
				А	dd Field Des	cription	
G H		1	J		Update Die	tionary	
					Field Descrip	tion DB	
				Save ree	cording As to	emplate	
					Delete Te	mplates 🏹	
				Delete Tem	T emplates plates from aplates lists	emplate 🖳	
						systems 🏷	
!							
	В				A		
	В	Ţ	emplate	es	A		
	В	Ţ	emplate	es	A		
	В	С	J20N_I	Extended	Create Pro		
	В	C	J20N_E B65_Ei	Extended (Create Pro	emo	
	В	C FI	J20N_6 B65_Ei B70_E	Extended (nter Vendo inter Outg	Create Pro or Credit M oing Invoic	emo es	
	В	C FI FI	J20N_E B65_Ei B70_E B75_Ei	Extended (nter Vendo inter Outgo nter Outgo	Create Pro or Credit M oing Invoic ing Credit	emo es	
	B	C FI FI	J20N_E B65_Ei B70_E B75_Ei B75_Ei E5_Ch	Extended (Inter Vendo Inter Outgo Inter Outgo ange Plan	Create Pro or Credit M oing Invoic ing Credit Statisitcs	emo es Memos	
	В	C FI FI K	J20N_E B65_Ei B70_E B75_Ei E5_Ch O01_(Extended (inter Vendo inter Outgo inter Outgo ange Plan Create Inte	Create Pro or Credit M oing Invoic ing Credit Statisitcs rnal Order	emo es Memos	1
	В		J20N_E B65_Ei B70_E B75_Ei E5_Ch O01_C P06_C	Extended (inter Vendo inter Outgo nter Outgo ange Plan Create Inte hange Co	Create Pro or Credit M oing Invoic ing Credit Statisitcs rnal Order st Elemen	emo es Memos	1
	B		J20N_E B65_Ei B70_E B75_Ei E5_Ch O01_C P06_C E32L_C E41_C	Extended (inter Vendo inter Outgo ange Plan Create Inte hange Cos Change So reate RFC	Create Pro or Credit M oing Invoic ing Credit Statisitcs mal Order st Element cheduling /	emo es Memos Activity Input	
	В		J20N_E B65_Ei B70_E B75_Ei E5_Ch O01_C P06_C E32L_C E41_C EK1_C	Extended (inter Vendo inter Outgo ange Plan Create Inte hange Cos Change So reate RFC Create Cor	Create Pro or Credit M oing Invoic ing Credit Statisitcs mal Order st Element cheduling / atract Price	emo es Memos Activity Input Agreement	
	В		J20N_E B65_Ei B75_Ei E5_Ch O01_C P06_C E32L_C E41_C EK1_C	Extended (inter Vendo inter Outgo ange Plan Create Inte hange Cos Change So reate RFC Create Cor	Create Pro or Credit M oing Invoic ing Credit Statisitcs rnal Order st Element cheduling / tract Price	emo es Memos Activity Input	

Delete the required template from the "**support**"(1) sheet and then delete the required lines for the "**template**" sheet(2)

Y



D	С	В	A +	
Х	1000	SAPLKPP0	KE5_Change Plan Statisitcs	•
	0		KE5_Change Plan Statisitcs	-
	0		KE5_Change Plan Statisitcs	•
Т			KO01_ Create Internal Order	
Х	100	SAPMKAUF	KO01_ Create Internal Order	ľ
	0		KO01_ Create Internal Order	1
	0		KO01_ Create Internal Order	1
	0		KO01_ Create Internal Order	1
Х	300	SAPLSPO4	KO01_ Create Internal Order	1
	0		KO01_ Create Internal Order	1
	0		KO01_ Create Internal Order	1
	0		KO01_ Create Internal Order	-



6.4. Populate Template to other users

This function save the current template as text file template in the default folder and end it added as attachment to outlook mail which is lunched in foreground

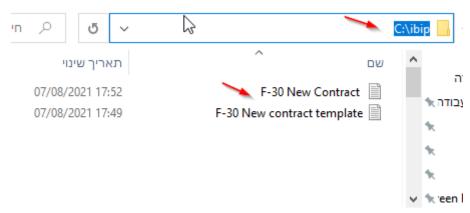
▼ DEV▼	SAP Sys		▲ ↓		Import Recording	Record		Define fault folder	- I	out 📑
		Edit Recordir	·9	ions						info
		d Field Description								~
К		Update Dictiona			0		Р	Q		R 🖻
K		eld Description [_			•		•	
		rding As templa								_
		Delete Templat								
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* DEV		System	Additio	▲ ↓ nal fu	Re	(mport ecording	Rec		Defin Default f	
	6									_
K	L	М			N	0		Р		Q
PopulateTem	plate								×	
Descript	ion	New Contract	1 2			🕤 Ok	1	Cancel		



Make sure outlook is open before using this option ,fill the mail address and send the template to the required end users

נוסחאות נתונים סקירה תצוגה Q ספר לי מה אתה רוצה לעשות	הוספה פריסת עמוד	בית IBIPTool+ Y
Run RunTest Debug Open Text File V SAP System V Templates	Import Recording	Define - IBIP (
Additional functions		info
🗙 🗖 – 🖻 (HTML) הודעה - IBIPTool template for transaction F-30 New Co	ontract = 🗸	ሳ ቢ ዓ 🗄
ןסט סקירה Q ספר לי מה אתה רוצה לעשות	אפשרויות עיצוב טק	קובץ הודעה הוספה
A وم ۲		ABC ABC 123
*	תובנות שפה	הגהה
		אל ייילב עותק
IBIP.T.ool ter	mplate for transaction F-30 Nev	שלח contract נושא
	F-30 New Contract .tx 1 KB	
Hello		
Attached IBIPTOOL template for transaction F- 30New Contract		
Use the Import Recording button for upload.		

Back up template are saved in the default folder





6.5. Test Run – ABAP Enhancement - Optional

SE12 220 ABAP Editor: Display Include LIBIPBAL		
🗢 🖒 🍄 😘 🖻 🎯 🖆 🥕 🐺 🕂 💑 🏯 💷 🚺 😋 👒 Pattern 🏰 🗂 Insert 🔤 Replace 📑 Delete 📬 Undo Text Elements		
Include	LIBIPBAL Active	
4	⊇ +&	🔄 Message Class Edit Goto Utilities Environm
6	→ *& *& Form CREATE_ENTRIES_IN_BAL *&	🖉 💽 😓 🔛 🗸 🔍
8	* form to create entries in BAL - Business Application Log *	SE91 220 Message Maintenance: Dis
	FORM create_entries_in_bal TABLES messages STRUCTURE ibipmess.	$\langle \Rightarrow \Rightarrow 6 $ Selected entries \square $ \square$ \square
	<pre>*\$*\$-Start: (1) ENHANCEMENT 1 ZPM_TESTRUN. "active version</pre>	Message class ZPM_MSG Act Attributes Messages
15	data ls_zpm_param TYPE zpm_param.	
	LOOP AT messages. if messages-MSGV1 CS 'TESTRUN'. messages-MSGTY = 'S'. messages-MSGID = 'ZPM MSG'.	Image: Contract state No. Message Short Text 444 Test run completed Successfully:
20	messages-MSGNO = 444.	999
21	messages-MSGV1 = messages-MSGV1+8.	
22	modify messages. - endif.	

This code deals with changing the color of the test run message in the log from red to green - this is optional