

Universal Function

How to build an Universal Function with beas Usability Extension

Boyum Solutions IT A/S

Beas Tutorial

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1. INTRODUCTION

This document describes the procedure to build a Universal Function on beas screen with beas Usability Extension.

To use the Universal Function:

- B1UP version must be installed: 2018.05 or later
- Beas version must be installed: 9.3 PLoo or later

2. PROCESS

This document will walk the user through defining and executing a Universal Function in a shortcut button. For more information about button creation, please refer to *Managing Buttons in beas* tutorial.

PATH for Universal Functions that apply to a button: Open the screen to create the button or where the customized button already exists > Right click in the screen > Go to the *beas Usability Extension* menu (Fourth icon from left to right) > Select *Add Function Buttons* (if there is no button created) or select *Edit Function Buttons* (if there are buttons created)

lte	m report								
#	Item number	Description	Group	Locked	Inventory	Reserved	Ordered UoM	Primary Warehou	
1	FG001	Finished Good 01 - Storage Related	Items		20	355	0 Piece	FG	
2	FG002	Finished Good 02 - Order Related	Items		1	5	0 Piece	FG	
3	FG003	Finished Good 03 - Product Configurat	Items		0	0	12 🖃 🎫 🖾		
4	merge	merge	Items		0.000	0.000	Setup Overview		
5	00	Outside operation cost	Items		0.000	0.000	Add function bu	ttons	
6	PK001	Package Item 01	Items		0	0			
7	PK002	Package Item 02	Items		0.00	0.00	0.00 Mt	01	

PATH for Universal Functions that apply to any window: Administration > Add-on > B1 Usability Package > Module Configuration > beas Usability Extension

IMPORTANT: The beas screen used in the function must be opened in the background in order for beas to automatically set the window name in the Universal Function. Otherwise the user must type it manually.

The reason beas does not have a dropdown list is that it has a large amount of screens. If there is a Universal Function which is not screen related, there is the option for the *Window Name* called "Any Window" and no screen should be opened in the background.

Be	as Customizin	g Admini	stration						_		×
N	New Button	New Sunction	× Delete	Expo	rt Import						
#	Category	Windo	ow ID	Ту	pe	ID		Active	Description		~
1						4	system1		my system-function		
2		artike	browse	But	tton	-	BB2018030816364524064765		Button definitions		
3		artike	_edit	Edi	it Item Placement Tool	4	IPT2018040614372996498391		Item placement in window artikel_edit		
4		fert_ft	haupt_edit	Edi	it Item Placement Tool	4	IPT201804241307002235969		Item placement in window fert_fthaupt_edit		
5				Uni	iversal function	4	EXTERNAL_LAUNCHER		External Launcher		
6				📰 Uni	iversal function	4	SCRIPT		SCRIPT		
7				📰 Uni	iversal function	4	SQL_SPECIAL_REPORT		SQL		
8		artike	_browse	📰 Uni	iversal function	¢	MESSAGE		Message		
9	customer order	reserv	ation_set_master	📰 Uni	iversal function	4	system9		open delivery-window		
10	customer order	reserv	ation_set_master	📰 Uni	iversal function	4	system2	\square	Supply		
11	reservation	reserv	ation_set_master	📰 Uni	iversal function	4	system7	\square	set stage area-bin		
12	reservation	reserv	ation_set_master	📰 Uni	iversal function	-	system6	\checkmark	set stagearea		
13	reservation	reserv	ation_set_master	📰 Uni	iversal function	4	system3	\checkmark	Provide Items (transfer)		
								_			~
										>	
	Edjt	End	Dejete							4	-

To create a new function, please click in *New Function* button. A new screen will be displayed.



beas Universal F	unction		
Code		Remark	
Name			
Туре	Message 🔹 👻		
Window Name	▼	Category	▼
Message	<		>
Block event	Cancel		

Here, beas allows to:

Add: Button used to save the configuration of the universal function. This button has the same use as in SAP Business One.

Cancel: Button used to exit the screen without saving. This button has the same use as in SAP Business One. This button has the same use as in SAP Business One.

IMPORTANT: There is an a burger icon right to the <i>Fu</i>	access directly fro <i>nction</i> field and a r	m the <i>Edit Fu</i> new screen wi	nction But Il open. Cli	<i>ton</i> screen , ick <i>New</i> .	to create a	function. Ju	st click in
Edit function buttons							
ID BB201803081636452406- Window ID artikel_browse Description Button definitions	4765 Active	User (em Categor)	pty=All)	 Include users 	C Exclude use	ers	
# AdcID Text 1	Info Message Button Second message	Add Update	OK Position Right Right	Function In beas script Te beas script ID Ac Up	fo ext dd odate	Message Button Button Name BB201803081636451	
List of Functions # Type ID Compared to the second secon	Name	Dejete	Window Relation		K ssition on sol Tip olor ont Size ont Format idth unction	Right	
<				> <			×
QK Cancel Delete	E Line Add Delete row	Rebuild					۷

2.1. Header

In the Header, a name and specific information for this function need to be included.

beas Universal F	unction		_ 🗆 ×
Code	BEA520180626235909101984	Remark	
Name	Usability Extension		
Туре	Message	~	
Window Name	Item report (artikel_browse)	 Category 	▼

Code: This is unique value. beas will automatically assign a code once the user clicks the *Add* button. We recommend using the code assigned by beas.

Name: Field used to define a name for the function.

Type: Field used to define the function type. There are 4 options:

- SQL Report
- Script
- Message
- External Launcher

Window Name: Field used to specify the window where the function is available. This will be filled in automatically when creating the Universal Function with a right click in a beas screen.

IMPORTANT: This field appears empty, if the user creates the Universal Function from the *beas Customizing Administration* functionality.

Remark: Field used to include a short description about the function.

Category: Field used to set a category defined in B1UP. Configuration groups can also be defined here.

2.2. Detailed

This part of the screen will change depending on the *Type* selected.

SQL report:

beas Universal Fun	ction		
Code	SQL_SPECIAL_REPORT	Remark	
Name	SQL		
Туре	SQL Report 🗸	-	
Window Name	•	Category	•
Window Title	SQL SPECIAL REPORT		
SQL			
	<		>
ОК	Cancel		۷

Window Title: Field used to add a description for the report.

SQL: Field used to add the SQL report to be executed once the function is used. To create a SQL report, just click in the *SQL Editor* button, and a new wizard screen is displayed. There is a tool that converts SQL code to HANA code only, not the other way around.

Scripts:

beas Universal Fun	ction		
Code	SCRIPT	Remark	
Name	5CRIPT		
Туре	Script 💌		
Window Name	_	Category	▼
Language b	eas script 💌		
	ζ		>
ОК	Cancel		۷

Language: Field used to the language the script will be written. At this moment, only "beas script" is available.

Script: Field used to add the script that will be execute once this function is used.

beas Universal Function	
ID S beas script Editor	
Window Window Type 5 Mindow Type	
Script	
ik <	>
Save and Close Cancel Save	۷
Add	
	beas Universal Function

Message:

beas Universal F	unction		
Code	MESSAGE	Remark	
Name	Message		
Туре	Message 🗸 🗸		
Window Name	artikel_browse 🗸 🗸	Category	
Message	This is a test		>
Туре	messagebox 💌		
Block event			
<u>O</u> K	Cancel		

Message: Field used to add the text to be shown in the message pop-up screen.

Type: Field used to set the type of message to be displayed. The options are:

- Message box
- Status bar Success
- Status bar Warning
- Status bar Error
- Question

Block Event: Field used to set if the event should be blocked and cannot be executed. This is very useful when validating data. For more information, please refer to the Validation System tutorial.

External Launcher:

beas Universal Fun	iction			
Code	EXTERNAL_LAUNCHER	Remark		
Name	External Launcher			
Туре	External Launcher	-		
Window Name	· · · · · · · · · · · · · · · · · · ·	 Category 		▼
File / Program	WINWORD.EXE		Word	•
Arguments	<document path="">\<document file="" name=""></document></document>			8
Stil	Normal			•
Working Directory	C:\Users\Daniela Narváez\Desktop\			(i)
Action	open			v
Start via	Shell			v
Block event				
Test				
Update	Cancel			4
	-			-

File/Program: Field used to set the predefined file or program path. Beas will specify the file program in this field

For example, a *word* file will be used. The user must select the path where the *word* file is located (server or local) and the type of document used. (in this case, a Word document) The program will be added in this field automatically.

File / Program	WINWORD.EXE	E	Word	1
r na / r r ogrann				

Arguments: Field used to define the arguments the user would like to run the program in.

Style: Field used to set how the screen will open. The options are:

- Normal
- Minimized
- Maximized
- Hidden

Working Directory: Field used to specify the path where the file is located. This is automatically filled by beas once the user selects the file.

Action: Field used to set an action. Options are:

- No
- Edit
- Explore
- Find
- Open
- Print

Start Via: Field used to specify how the program should open and run. There are 3 options available:

- Shell This option opens the file under what it is registered at. This is very useful if the user does not have certain programs installed and only needs to display the document.
- Run This option opens the program
- Run and wait This option opens the program but freezes beas till the program is closed.

Block Event: Field used to set if the event should be blocked and cannot be executed. This is very useful when validating data. For more information, please refer to the *Validation System* tutorial.

Test: Field used to test the function defined.

Once the function is defined, the function will appear in the List of Functions screen. To select the function, from the screen, just click in *Transfer* or double click the function.

IMPORTANT: When the list of functions is opened from a beas screen, it will be displayed a list of universal functions created in beas.

			Active		User (empty=All)			(1)	
indow Name artikel_browse escription Button definitions		artikel_browse			Category	Include users Exclude users			
		definitions				▼			
Colla	apse / expand								
D	Text	Info	Position				Info		_
	Message Button		right	=			Text	Message Button	
							ID	-	
Lie	t of Euroctions						Add		
LIS	c of r directoris				_		Update	\checkmark	
#	Туре	ID Name			Window Relation		OK	\checkmark	
1	Message	BEAS20180626 Usability Ex	dension		artikel_browse		Position	Right	•
2	SQL Report	BEAS20180627 Script Repo	ort for UX		artikel_browse		Icon		-
3	Script	BEAS20180627 Beas Script			artikel_browse		Tool Tip		
							Color		•
							Font Size		•
							Font Format		•
							Width		
•	Transfer	Edit End	New Delete	2		>	Function	universalfunction=BEAS.	20
						2			

In the function list, note the user can also attach print macros and templates to the button. Also, B1UP functions will be listed even though there are no screen related.

IMPORTANT: A warning message will be displayed in case the user selects a B1UP Universal Function because it will be only executed if the B1UP is installed and connected. It will not work for Web Apps and beas standalone.