Produmex Scan Complete Configuration Guide

It is recommended to avoid the asterisk (*), pipe (|) and apostrophe (') characters in Produmex or SBO master data because these characters have a special role in Produmex products.

1. Configure Produmex Scan

When starting Produmex Scan for the first time on your device, the Configuration screen will open up. To change the configuration after the first use, run the Configure Produmex Scan application.

1.1. General tab

On the 'General' tab determine the connection settings and the language of the application.

- Add the Server URL of the server where the client application will connect. The server URL consist the IP address of the server where the Service Broker runs and the port number. The port number is 50231 by default. Press the '...' button to scan for servers.
- After the Server URL has been added, the active databases assigned to the Service Broker are listed on the box. Select the company database from the list. If the application cannot connect to the server, an error message is shown.
- Select the language of the client application from the Language dropdown menu.
- Press the 'ID' button to see the device ID.

OK Cancel
Client configuration parameters
General Advanced Diagnostics
Server URL tp://192.168.0.143:50231/
TEST_WMSMF TEST_WMSMF
TEST_SCAN TEST_SCAN
Language English
ID

1.2. Advanced tab

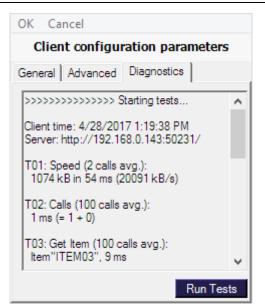
Go to the 'Advanced' tab for further configurations.

- If you would not like to use the built-in operating system default control buttons, check the 'Do not use built-in OS buttons' checkbox. It is recommended to disable the built-in buttons on Windows CE, in desktop mode or when using remote desktop connection.
- For customization purposes the Customization Assist Mode can be enabled by ticking the checkbox. For more information about customization please see: Produmex Scan Customization Guide
- Select a Windows layout from the dropdown menu. Possible values:
 - Normal: recommended in desktop mode
 - Maximized Borderless: recommended in Windows CE
 - Desktop Fullscreen: recommended when using remote desktop connection
- Tester Mode: The tester mode is for internal testing purposes only. Do not check this box.

OK Cancel						
Client configuration parameters						
General Advanced Diagnostics						
☑ Don't Use Built-in OS Buttons						
Customization Assist Mode						
Win. Layout Maximized Borderless						
▼ Tester Mode						
i ester mode						

1.3. Diagnostics tab

On the 'Diagnostics' tab network and process performance diagnostic tests can be ran.



Press the 'Ok' button to apply the configurations.

2. Setting Up Master Data in Produmex Scan

To be able to use the mobile application you have to set up the master data in the Produmex Scan add-on.

First set up the employees who can use the mobile application and determine their rights for the specific mobile functions.

In order to print labels from the mobile application, configure the printers and set up the label layouts you would like to use.

2.1. Printing

2.1.1. Defining the Layouts

You can define the layouts at Administration>Setup>Inventory>Produmex Scan>Printing Layout Sets. On the Printing Layout Sets form you can define which layout files should be used for the specific labels at printing.

- The *Description* is the label name displayed on the mobile device.
- On the Bin Code Layout File field add the report file of the label version for bin locations.
- On the *Stock Normal Label Layout File* field add the report file of the label version for stock that is not managed by batches or serials.
- On the *Stock Batch Label Layout* field add the report file of the label version for stock that is managed by batches.
- On the *Stock Serial Label Layout File* field add the report file of the label version for stock that is managed by serial numbers.

Description	Bin Code Layout File	Stock Normal Label Layout File	Stock Batch Label Layout File	Stock Serial Label Layout File
0x15 labels (CPCL)	BinCode10x15_CPCPL.prn	StockLabel10x15_CPCL.prn	StockLabel10x15_CPCL.prn	StockLabel10x15_CPCL.prn
0x15 labels (ZPL)	BinCode10x15_ZPL.prn		StockLabel10x15_ZPL.prn	
x20 labels (CPCL)	BinCode15x20_CPCPL.prn		StockLabel15x20_CPCL.prn	
x20 labels (ZPL)	BinCode15x20_ZPL.prn		StockLabel15x20_ZPL.prn	
A4 (Crystal)	BinCodeA4.rpt		StockLabelA4L.rpt	
A4 (ZPL)	BinCodA4_ZPL.prn		StockLabelA4_ZPL.prn	

Define the path to the report files at the *Report Layout Folder* setting on the Reports tab of Produmex Scan settings. It is recommended to use a network folder.

It is also possible to define an output folder for reports at the *Report Output Folder* setting on the Reports tab of Produmex Scan settings.

2.1.2. Layout formats

2.1.2.1. Crystal Reports

Regular Crystal Reports RPT files which can contain one or more of the documented parameters. The report can connect to and read from the database. The database logon parameters (username, password, server, company name) are set by Warehouse before executing the report.

You can download example report files from here: Label examples Copy the reports to the Report Layout Folder set on Produmex Scan settings. Open the reports and adjust the datasource location.

Bin Code Layout

Crystal report file is run once with the mask as the parameter.

Parameters:

BinCodeMask – Bin code mask with * eg. 01-A-1-1*

Stock Normal Label, Batch Label, Serial Label Layout

Parameters:
ItemCode
BatchNumber
SerialNumber
Quantity

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2.1.2.2. Zebra ZPL

Zebra ZPL files (or CPCL files) are text files which can contain one or more Placeholder strings. The placeholders will be replaced by Produmex Scan before it is sent to the (networked TCP/IP or local printer on the server) Zebra printer.

Here is a sample Stock Label ZPL file (text file). This sample file contains the following placeholders:

{Quantity}

- {OITM.InvtryUom}
- {OITM.ltemCode}
- {OITM.ItemName}

^XA ^PW632 ^LL0472

^CWD,E:ARI000.FNT

^CFD,24 ^FT434,270^FDItem;^FS

^CF0,24^BY3,3,95^FT135,170^BCN,,Y,N
^FD{Quantity}{0ITM.InvtryUom}^FS
^FT492,270^FD{0ITM.ItemCode}{0ITM.ItemName}^FS
^PQ1,0,1,Y^XZ

Bin Code Layout

ZPL file is printed for every bin location found for the given mask.

Placeholders:

{OBIN.BarCode} {OBIN.BinCode}

(Every field including user fields are available from OBIN table, reference it with the database column names)

Stock Normal Label, Batch Label, Serial Label Layout

Placeholders:
{ {OOIITTMMIItteemmCNaodmee} } {OITM}
 {Quantity} {OBTN.BatchNumber} {OBTN.CreationDate} {OBTN}
 {OSRN.MnfSerial} {OSRN.DistNumber} {OSRN} Every field (including user fields) available from OITM table For batches only: every field (including user fields) available from OBTN table For serials only: every field (including user fields) available from OSRN table

2.1.3. Setting Up the Printers

You can set up the printers at Administration > Setup > Inventory > Produmex Scan > Printers Setup.

- 1. Both local and network printers can be configured.
- In order to configure a local printer, make sure that the '*Is Network Printer*' checkbox is not checked. Enter the name of the printer to the Local Printer Name field.
- In order to configure a network printer, check the 'Is Network Printer' checkbox. Add the IP Address as the IP Address and the port as the Port Number.

In case of network printers Local System users usually do not have the right to print, therefore, make sure that in the *Run As User* setting of the Produmex Service Broker you indicate a user who has printing rights.

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•	ervice Help ProdumexService	Broker service configuration	= Setur Comogr -	ies
	General Produme	ex Service Broker		
	Run As User			
	Password		✓ Misc	
			Concurrent tasks (piece)[(1	
	Start Mode A	uto	Debug writeline log? (true, True	
			Exit if any module loading False	
			HTTPS enable? (true/fals false	
			Kill long time (seconds) 1000	
			Kill on memory usage (mby 1000	
			Kill time (seconds) 1000	
			Modules to load (comma s BXMobileWH9WebAPI,BXPPSMo	
			Port to listen on 50231 Record comm.data details false	
			Server discovery enable? true	
			SSL Port to listen on 50232	
			Concurrent tasks (piece)[0-not limited] Concurrent tasks (piece)[0-not limited]	

2. Indicate whether the printer is active or not with the 'Is Active' flag. Only active printers can be selected on the mobile application.

3. Select the type of the label file from the Printer Type drop-down menu. The following file types are supported:

- Crystal (RPT)
- Zebra CPCL
- Zebra ZPL

Description	Is Active	Is Network Printer	IP Address	Port Number	Local Printer Name	Printer Type	
Canon MG3500	~			0	Canon MG3500 series Printer XPS	Crystal	•
1obile Zebra	✓	✓	192.168.0.144	9100		ZebraCPCL	•
							•

4. It is possible to assign layouts that can be used with the printer. Select the line of the printer and choose the *Select Layouts* option from the right-click menu.

On the opening form select the layout(s) from the dropdown menu on the Layout Set Code field. With the Visual Order it is possible to determine the order of the layouts on the list.

Printer Description	Backup Zebra		
Layout Set Code		Visual Order	
10x15 labels (ZPL)	•		1 -
15x20 labels (ZPL)	•		2
A4 (ZPL)	•		3
	•		
			_
			-
			-
			-

Default printer properties

The printing is processed via the Produmex Service Broker. By default Produmex Service Broker runs in a context of the LocalSystem account therefore it takes its printing settings from the default properties. Meanwhile, Crystal Reports takes its printing settings from the user-specific properties.

In order to change the printing settings for Produmex Scan, change the user specific and the default printing properties as well.

To change the user specific settings, open 'Printing preferences' of the printer. You can change the user specifc setting on the 'Options' tab.

Custom Commands Import/Export settings Tools About Options Advanced Setup Dithering Stocks Printer Memory Settings	Barcode Fo	nts	Comma	and Fonts
Settings No. Of Copies: 1 Speed: 12.7 cm/s Darkness: 15 cm/s Sjocks: User defined v Paper Format G gm G gm G jnch Size Width: 10,50 Height: 8,00 Unprintable Area Lgft: 0,20 Tgp: 0,00	Custom Commands	Import/Expo	nt settings T	ools About
No. Of Copies: 1 Speed: 12.7 ▼ cm/s Darkness: 15 ▼ Sjocks: User defined Paper Format ▼ © gm © portrait © inch □ jandscape © inch □ jotate 180° Size Width: 10,50 Height: 8,00 Unprintable Area	Options Advance	d Setup Dith	ering Stocks	Printer Memory
Speed: 12.7 rem/s Darkness: 15 rem/s Sjocks: User defined Paper Format regime © gm regime © inch regime Size regime Width: 10,50 Height: 8,00 Unprintable Area 0,20 Lgft: 0,20 Tgp:	Settings			
Darkness: 15 Sjocks: User defined Paper Format gm gm jandscape jotate 180° Size Width: 10,50 Height: 8,00 Jinprintable Area 0,20 Tgp: 0,00 	No. Of Copie	ε 1		
Darkness: 15 Sjocks: User defined Paper Format gm gm gn gnditation gnditation	Speed	12.7	▼ cm/s	
Slocks: User defined Paper Format	Darkness:		-	
Paper Format © gm © portrak © mm © Jandscape © inch © jotate 180° Size				-
Implicit constraint Implicit constraint Impl		Tose o	aineu	-
Size Midth: 10,50 Height: 8,00 Unprintable Area			G	
C inch In				
C inch Inch Inch Size	C <u>m</u> m	8,7794.5	C Jandscape	
Size		VIECD	Totate 180°	
Width: 10,50 Height: 8,00 Unprintable Area				
Height: 8,00 Unprintable Area		10.50	_	
Unprintable Area Left: 0,20 Tgp: 0,00		-	_	
Lgft: 0,20 Tgp: 0,00	<u>H</u> eight:	8,00		
Lgft: 0,20 Tgp: 0,00	Unprintable Area			
		0,20	Top:	0,00
	Right:	0,20	Bottom:	0.00

To change the default properties, select the 'Printing Properties' option. On the opening screen go to the 'Advanced' tab and click on the 'Printing Defaults' button to change the default printing preferences.

Always available Available from Available from Priority: I	Security
Driver: ZDesigner GK420t New Driv Spool print documents so program finishes printing faster Start printing after last page is spooled Start printing immediately Print directly to the printer Hold mismetched documents Print spooled documents Keep printed documents	-
Spool print documents so program finishes printing faster Start printing after last page is spooled Start printing immediately Print directly to the printer Hold mismatched documents Print spooled documents Keep printed documents	
Start printing after last page is spooled Start printing immediately Print directly to the printer Hold mismatched documents Print spooled documents first. Keep printed documents	ver
Start printing immediately Print directly to the printer Hold mismatched documents Print spooled documents first Keep printed documents	
Print directly to the printer Hold mismatched documents Print spooled documents Keep printed documents	
Hold mismatched documents Print spooled documents first. Keep printed documents	
Print spaoled documents first. Keep printed documents	
Print spaoled documents first. Keep printed documents	
Keep printed documents	
Enable advanced printing features	
Printing Defaults Print Processor Separator Page	

2.2. Setting Up Employees

The user specific settings for Produmex Scan users can be configured on the Employee Master Data. The following settings can be configured:

- User authorization
- User password

- Favorite menus
- Printers

2.2.1. Authorization fields

To authorize a functionality for the employee, set the corresponding UDF to 'Yes'. The employee will only see the authorized functions on the main menu of the client application.

The 'Query stocks' function is authorized for every employee by default. It does not have an authorization UDF.

mployee Master	Data			▲ ▼ General		•
				Aut, for Bin Loc, Locking	No	
rst Name	John	Employee No. 1		Aut, for Cash and Carry	No	
ddle Name		Ext. Employee No.		Aut. for Credit Note	No	
st Name	Doe	✓ <u>A</u> ctive Employee		Aut. for Goods Issue	No	
b Title				Aut. for Goods Receipt	No	
sition	T	Office Phone		Aut, for Goods Receipt PO	Yes	
partment		Ext.		Aut. for Issue for Prod.	Yes	
anch	T	Mobile Phone		Aut. for Picking	Yes	
anager		Pager		Aut. for Picking Delivery	No	
er Code	T	Home Phone		Aut. for Quick Counting	No	
les Employee 🛛 📫	-No Sales Employ▼	Fax	i i i i i i i i i i i i i i i i i i i	Aut. for Receipt from Prod.	Yes	
ost Center		E-Mail		Aut. for Recommendations	No	
		Linked Vendor		Aut. for Sales Issue	No	
Address Mem	bership Adminis	tration Personal Finance	Remarks Attachments	Aut. for SO Creation	No	
-	Deramp Homina		Kener <u>k</u> a Attagrimenta	Aut. for SO Transfer	No	
Work Address		Home Address		Aut. for Sales Return	No	
				Aut, for Stock Counting	No	
				Aut. for Stock Transfer	No	
				Aut. for Batch Delivery	No	
Street	Clearwater Dr 45	Street		Aut. for Batch Transfer	No	
Street No.		Street No.		Aut, for Bin Attributes	No	
Block		Block		Aut. for Free GR PO	Yes	
Building/Floor/Room		Building/Floor/Room		Aut. for Mass Transfer	No	
Zip Code		Zip Code		Aut, for Packing	Yes	
City	San Diego	City		Aut. for Print Labels	No	
County		County		Aut. for Production Return	Yes	
State		 State 	•	Aut. for Receipt By-Products	No	
Country	USA	 Country 	•	Aut, for Transfer Request	No	
				Default Printer	0000009	
				Mobile Password	2RprVzCG	
				PIN Code	6752	

2.2.2. Default Printer

On the *Default printer* UDF the printer used in customization can be defined. This printer will only be used in customization, it will not be listed among the printers defined for the user.

2.2.3. User password

Set the user password on the Mobile Password UDF.

2.2.4. PIN Code

By default the user can login with the *Employee No.*. If there is a *PIN code* set, it is possible to log in with the *PIN code* as well.

💐 Login		#* B	.€	œ×
Company	TEST_S	CAN		
User	3456			
User Name	John Doe	9		
Password				
Printer	Mobile Z	ebra 01		
Client version	n: 17.04.06	001.1892	0	
Logi	n		Exit	

2.2.5. Mobile User Preferences

To configure the favorite menus for a user, select the '*Mobile User Preferences*' option from the rightclick menu or click on the '*Mobile User Preferences*' button on the 'Administration' tab.

	_							
First Name	John	hn		yee No.	1			
Middle Name		_		nployee No.				
.ast Name	Doe			tive Employee				
ob Title								
Position		•	Office	Phone				
Department		•	Ext.					
Branch		•	Mobile	Phone				
lanager			Pager					
Jser Code		•	Home	Phone			490	
	-No Sales	Employ*	Fax				6	
Cost Center			E-Mail					
			Linked	Vendor				
Addgess Mem	ngership	Adminis	tration	Personal	Figance	Remar	ks A	Attachments
	_							
Start Date Status Termination Date					Absence Educatio			
Status				•		n		
Status Termination Date	Remove				Educatio	n		
Status Termination Date	R <u>e</u> move <u>R</u> elations	hip Map			Educatio Reviews	n oyment		
Status Termination Date	-			P	Educatio Reviews revi <u>o</u> us Emplo	n byment ferences		
Status Termination Date	<u>R</u> elations	ser Prefer	ences	P	Educatio Reviews revi <u>o</u> us Emplo obile User Pre	n byment ferences		

The 'Mobile User Preferences' form will open up. On the header of the form the *Employee ID* and the *Employee Name* are shown.

Select a menu point from the dropdown list on the 'Mobile Menu ID' column then define the sequence of the menu buttons on the 'Visual Order' column. Menu points with the smallest visual order number will be shown first.

Click on the 'Update' button to apply the changes.

Mobile User Pre	eferences				
EmployeeID	1	Emp	loyee Name Doe, John		
Mobile Menu ID			Visual Order		
ButtonPicking		•		1	-
ButtonPacking		•		2	
		•			
_					
					Ŧ
					_
ОК	Cancel				

The favorite menu buttons will be displayed on the top of the main menu of Produmex Scan.

💐 Main Menu	#*‰ €	×
TEST_SCAN	John Doe	^
Favourites	cking	
Goods Receipt	РО	
GR PO Free	GR PO	
Production		~
	Log Out	

2.2.6. Mobile User Printer

On the Employee Master Data select the '*Mobile User Printers*' option from the right-click menu or click on the 'Mobile User Printers' button on the 'Administration' form.

First Name	Joh	n	Emplo	yee No.	1		
Middle Name				mployee No.			
Last Name	Doe	1		tive Employee	•		
lob Title							
Position		*	Office	Phone			
Department		*	Ext.				
Branch		•	Mobile	Phone			
lanager			Pager				
Jser Code		*	Home	Phone			
Sales Employee	-No	Sales Employ▼	Fax				
Cost Center			E-Mail				
			Linked	Vendor			
Address	Membersk	nip Admini	stration	Personal	Finance	Remarks	Attachmen
Status				-	Educatio		
Start Date		_			Absence		
Termination Date					Educatio	n	
Termination Reas	on			•	Reviews		
				P	revi <u>o</u> us Empl	oyment	
	R	emove					
	R	elationship Ma	p	Mobile U		le User Preferences	
		lobile User Pre	-		Mobile User P	rinters	
		lobile User Prir					
	IV	lobile User Prir	iters				

The 'Mobile User Printers' form will open up. On the header of the form the *Employee ID* and the *Employee Name* are displayed.

Select the printer from the dropdown menu. Every printer defined on the *Printers* table is listed.

Add the sequence of the printer on the visual order column.

Mobile	User Prin	ters				×
EmployeeI	D	1	Emp	oyee Name Doe, John]
Printe	۲			Visual Order		
Mobile	e Zebra 01				1	-
Backu	p Zebra				2	
Mobile	e Zebra 02		•		3	
			•			
						-
						_
OK	0	Cancel				

The printer with the lowest 'Visual Order' value will be shown as the default printer on the Login screen or before printing. It is possible to change the default printer. Press the '...' button then select a printer from the list. Every printer defined for the user on the 'Mobile User Printers' form will be listed. The order of the list depends on the 'Visual Order' value.

💐 Login	/////////////////////////////////////	📲 Print La	bels	_#°‰∢ ×	👪 Printers	₩‰≮ ∞×
Company	TEST_SCAN	Remarks	A1000 * I	Normal Paper	Name: Mobile Zebra 01	×
User User Name	3456 John Doe	Quantity	158 pcs		Name: Backup Zebra	
Password		UoM	pcs		Name: Mobile Zebra 02	
Printer	Mobile Zebra 01	Labels	1			
		Printer	Mobile Z	ebra 01		
Clientversion	: 17.04.06001.18920					-
Logii	n Exit	Prin	t	Back	Choose	Cancel

3. Produmex Scan Settings

Settings for the system can be found in the add-on, under Administration>Add-Ons>Produmex Scan>Produmex Scan Settings.

3.1. General tab

The following table describes the fields that appear in the 'General' tab of the Produmex Scan Settings window.

Field	Description/Activity
Don't translate trace	Obsolete setting.
Advanced Progress Bar	If this checkbox is checked, the system will display the Produmex Scan Advanced Progress Bar instead of the Business One Progress Bar. We recommend using the Produmex Scan progress bar, as at long processes SBO progress bar can stop.
DisplayTimeUoM	This setting is not in use in Produmex Scan.
Company Logo	The company's own logo, used in reports. Path to image file requested.
BxBackOffice Server URL	Obsolete setting.
Chart XML Folder	This setting is not in use in Produmex Scan.
Produmex Support Business Partner	If an error occurs, a message box is displayed with the error details. You can send the error message to Support from this message box. You will need to set a Business Partner first, and set the Contact Person's email address. Set this Contact Person's code for the Produmex Support Business Partner field. You have to set up SBO Mailer for this function to work.
Name of last started AddOn	Internal field, not editable.
Date of last started AddOn	Internal field, not editable.
Time of last started AddOn	Internal field, not editable.
Use Message Board	The message board lets add-ons communicate with each other. In some cases, events are forwarded to non-Produmex add-ons. In this case, turn this setting off, but in this case communication between Produmex add-ons will stop.
TxSyncServer URL	This setting is not in use in Produmex Scan.
Seconds of last started AddOn	Internal field, not editable.
Grid Row Count Decrease Number	Decrease height of form grid to allow buttons being correctly seen at the bottom of the window. Positive integer needed. Useful if you have SAP 8.8 or higher with a low resolution monitor and the buttons are in the grids.
Close Stucked AddOns	If enabled, the add-on kills any other instance of BXWH9AddOn.exe on start. It means that only one Produmex Scan add-on can run at a time. On terminal server environments it is recommended to disable this setting as it kills Produmex Scan add-ons run by other users as well.
Enabe Produmex statusbar (SBO 8.8 or above)	Obsolete setting
Do Not Use GetAsXml	When Produmex Scan request table information, we can use GetAsXml SAP function. Sometimes there were SAP DI errors, in this case we can use a Produmex Scan function to request the data.
Password for DI Connection	Modify DI connection mode to work around for SAP 9.0 pl9 hotfix 1 bug by direct DI connection
Copy Bitmaps Manually	If enabled, the icon image files will not be copied from the SBO installation folder when the add-on starts. Enable this setting if the user do not have writing permission for the folder set as the Pictures Folder on the Path tab of General Settings.

3.2. SQL tab

The following table describes the fields that appear in the 'SQL' tab of the Produmex Scan Settings window.

Field	Description/Activity
ADO.NET SQL Username	The User name for the MS SQL database (usually sa). Scripts use this setting (for example for upgrading a database).
SQL Time out in seconds	SQL Timeout setting for SQL queries.
SQL execution duration alert in milliseconds	If the execution of a query exceeds the time defined in this setting, a warning is added to the log file.

3.3. Logs tab

The following table describes the fields that appear in the 'Logs' tab of the Produmex Scan Settings window.

Field	Description/Activity
Auto Purge Audit Logs in days	The add-on logs each database transaction in the Audit Log table. This log can be deleted automatically in the interval set here. The default setting is 30 days.
Keep Audit Logs in days	The system deletes the log entries, which are older than the number of days set here.
Log resource strings	If this checkbox is checked, the system logs every Resource String from open forms to a log file. By default log files are located in: %AppData%\Roaming\BX\Logs.
Logging Level	Sets which events are logged. Possible values: Errors Only Errors and Warnings Errors, Warnings, Information Debug (everything) By default log files are located in: %AppData%\Roaming\BX\Logs.
Log Table - max number of days to keep	Log entries that exceed the specified number of days will be deleted from the "@BXPLOG" table.
Log Table - max number of rows to keep	Defines the maximum number of rows that are kept in the "@BXPLOG" table.

3.4. Reports tab

The following table describes the fields that appear in the 'Reports' tab of the Produmex Scan Settings window.

Field	Description/Activity
Report Layout Folder	The folder which contains the RPT files for reports.
Report Output Folder	The folder which will contain the generated PDF files for reports.
Paper Size (Reports)	Paper size for reports. Example: A4, A3
Paper Orientation (Reports)	Paper orientation for reports. Example: portrait, landscape

Field Description/Activity				
Printer Name (Reports)	Printer name for reports.			
Print Preview (Reports)	If enabled, the <i>Preview before print</i> checkbox is checked by default on the Select Report Layout screen.			
Preview with Watermark	If enabled, the watermark is printed on print previews as well.			

3.5. Produmex Scan General

The following table describes the fields that appear in the 'Produmex Scan General' tab of the Produmex Scan Settings window.

Field	Description/Activity
Maximum number of documents to display per page (more than 20 may cause performance issues)	Defines the maximum number of lines displayed on one screen. If the number of the lines to be listed exceeds this number, page navigator buttons are displayed on the screen. Use these buttons to navigate between pages. <i>Please note: The Refresh button must be pressed in order to apply</i> <i>the added filters even though the navigation buttons are displayed.</i>
Maximum number of serials/batches to display (more than 100 may cause performance issues)	If you work with serial/batches numbers, with this setting you can limit the number of the displayed items.
Maximum number of lines for stock queries to display (more than 100 may cause performance issues)	Defines the maximum number of lines displayed in the Query Stocks/Stock Info screens.
Don't close screens with completed quantity	If you picked all quantities on quantity screens, then Produmex Scan falls back to the document line screen by default. In this case you cannot use any customization after a 'ButtonAdd' event. With this setting you can configure Produmex Scan to stay on the quantity screens, and you have to close it manually.
Don't close screen after picking delivery	After the delivery is created in Picking, Produmex Scan falls back to the select a pick list screen by default. If this checkbox is enabled, Produmex Scan stays on the pick list lines screen after the delivery is created.
Allow issuing more items for production than planned	If this setting is disabled, only the production order lines that have open quantities to issue are listed in the 'Issue for production' function.
Allow reception of more products than planned	If this setting is disabled, only production orders that have open quantities to receive are listed in the 'Receipt form Production' and 'By-Product' functions.

Field	Description/Activity
Enable multi-item Stock Transfers	This function allows to park transactions before you post them, that is, you can add multiple items to a stock transfer before posting. Once you click the Post button, however, it is possible that not only your transactions will be posted. If there is another user creating a stock transfer to the same warehouse/bin location, the user's transactions will be posted as well . (If you are supposed to be allowed to post only your own transactions, please consult with the description of function <i>Transaction Separation for Warehouse Scanners</i> available in this table.) If function <i>Enable multi-item Stock Transfers</i> is disabled, only single- scan-transactions are possible, that is, you are allowed to post transactions only one by one.
Ignore special lines when creating Documents	It is enable, the text lines of a sales order won't be copied to a delivery.
Exclude Sales Orders when checking allocated quantities	If enabled, stock allocated to sales orders cannot be used when issuing stock during outgoing processes.
Sales return document location must be the same	Items can only be returned to the same bin location.
Credit note document location must be the same	Items can only be returned to the same bin location.
· ·	If enabled, the Delivery document lines are added in the order of the base document, otherwise they will be added in the order of the picking.
Real-time Stock Counting	If enabled, Produmex Scan automatically updates the Inventory Counting document with the result of the counting after pressing the Finish button in the end of Stock counting or Quick counting. If this setting is disabled, the counting result will be stored in a user table.
Show all Stock Counting data on scanners	If enabled, already counted items are listed on the Stock Counting screen. <i>Please note: Items with different batch or serial number will</i> <i>be listed in separate lines.</i> If disabled, only the number of the counting records is displayed.
Display all sheet bin locations for Quick Counting	It is enable all bin location will be displayed for quick counting.
Guided Quick Counting (Y/N)	If enabled, the Guided Count process can be started instead of Quick Counting.
Restricted zone handling in Quick Counting (Y/N)	If enabled, the counter is only allowed to count locations included in the Inventory Counting document during Quick Counting and Guided Counting.
Sticky destination location for Stock Transfer Requests	If enabled, the last To: location will be remembered during processing Stock Transfer Request, this can be convenient if STR items are put in the same destination location (maybe a cart, pallet, etc.)
Keep focus on prepared line (all processes)	If enabled, the last To: location will be remembered during processing Stock Transfer Request, this can be convenient if STR items are put in the same destination location (maybe a cart, pallet, etc.)
Display completed Stock Transfer Request lines at the end of the list	At Stock Transfer Request process the processed lines will be shown in the bottom of the list.

Field	Description/Activity
Goods Receipt PO quick refresh mode	During reception, Goods Receipt PO lines can be set to refresh data only on the current line, not the whole list.
Copy user fields from base line to Serial/Batch Details (Goods Receipt PO only)	Enable this setting to copy the UDF value from the purchase order lines to the matching Serial/Batch detail field when the Goods Receipt PO is created. <i>Please note: The value will be copied only if the UDF and the</i> <i>Serial/Batch detail has the exact same name.</i>
Timeout for messages (except for errors, seconds)	Warnings, Information messages, are closed automatically after the time set at this field.
Diagnostic Client Log settings	Special option for collecting error logs from the mobile client. Only use when instructed by Produmex support.
Don't show icons on main menu (use buttons instead)	Display only simply buttons with no icons.
Detailed mobile log	Only for picking and stock transfer. More details are recorded in to table: <a>@BXPLMSMOBLOG
Enable SAP DI API logging	If this setting is enabled, a new log file is created under "C:\ProgramData\BX\BX Service Broker\Logs". The file name is SAP- DIAPI-yyyy-mm-dd.log
Alternative Item Name field	To display alternative item names on the scanner, add the OITM table field name where the alternative name of the item is stored to this field. Please note: In order to add user defined fields, insert the 'U_' prefix. Restart the Service Broker to apply the Alternative Item Name.
Transaction Separation for Warehouse Scanners	Using this function is reasonable only if you enable function <i>Enable</i> <i>multi-item Stock Transfers</i> (the description of the function is available in this table). If function <i>Transaction Separation for Warehouse Scanners</i> is enabled, you can add multiple items to a stock transfer before posting, however, when you click the Post button, only your transactions will be posted .

3.6. Produmex Scan Scanning

The following table describes the fields that appear in the 'Produmex Scan Scanning' tab of the Produmex Scan Settings window.

Field	Description/Activity
	If this option is enabled, then the item code or the item's bar code must be scanned when delivering the sales; otherwise the item is prefilled and doesn't need to be scanned.
	If this option is enabled, then the item code or the item's bar code must be scanned during picking; otherwise the item is prefilled and doesn't need to be scanned.

Field	Description/Activity
Prefill quantities for Goods Receipt PO	
Prefill quantities for Stock Transfer Request	Prefill quantities (separate options for different processes): None : No prefill will be used for this task.
Prefill quantities for Picking	Open : The system will fill in the quantities of all receives as the
Prefill quantities for Issue for Production	full expected or full remaining expected quantity. For example: if the order is 20 and 5 have been received, the system will default
Prefill quantities for Receipt from Production	the next receive for 15. Unit : The system will fill in the quantities with one unit.
Prefill quantities for Return Components	
Prefill unique batches (outgoing processes)	If this setting is enabled, an there is only one batch in stock for the item, the batch is automatically filled during outgoing processes.
Prefill unique batches for Stock Counting	If this setting is enabled, an there is only one batch in stock for the item, the batch is automatically filled during stock counting.
Post the corresponding quantity when scanning item bar code in quantity field	When scanning an item's bar code into a quantity field, a quantity of 1 for the corresponding UoM is pre-filled; if this option is enabled, the quantity is automatically posted/added, otherwise the user has to press the Add/Update/Post button.
Auto book unit when scanning normal item for Stock Counting	When doing inventory counting, scanning a barcode automatically counts a unit (eg. 1 piece, 1 carton) for the item
Barcode scanner prefix Barcode scanner suffix	If the barcodes contain prefix/suffix characters that should be removed before processing it, you can specify it here. Eg. if you have a (and) prefix/suffix, the printed item barcode can look like (A1000) which will be processes as A1000.
GS1-128 barcode group separator	Group separator character for GS1-128 type barcodes. Example: \$
Code ID type	For GS1-128, there are two international standards, the Symbol standard and the AIM standard. With Symbol CodelD, the scanned input text is prefixed with (K for GS1128. Currently only Symbol is supported.
Allow selecting locations from Find Stocks screen (outgoing processes)	If enabled, the Find Stocks button allows to select an location.
Allow selecting batches from Find Stocks screen (outgoing processes)	If enabled, the Find Stocks button allows to select an existing batch.
Optimized mixed serial/bin handling (Goods Receipt PO, Stock Transfer Request)	If enabled, the bin location and the serial number can be added on the GR/PO lines screen.

3.7. Produmex Scan Picking

The following table describes the fields that appear in the 'Produmex Scan Picking' tab of the Produmex Scan Settings window.

Field	Description/Activity
Allow working on already	It is advised for an extend pick list. More than one user is allowed to pick
taken Pick Lists	the items included in the list.

Field	Description/Activity				
Real-time Picking (post instantly after picking an item)	If enabled (default) every picking action instantly updates the SAP Pick List document.				
Allow changing bin/batch/serial allocations for Picking	If enabled, the bin/batch/serial numbers are allowed to be different than what is specified in the Pick List.				
Speed Picking (Real-time Picking must be disabled)	If it is enabled, the lines from the selected picklist are loaded only once, when the Picking screen is first opened for that pick list. The selection automatically jumps onto the next un-picked line following the line last picked; this is another improvement to simplify the picking process.				
Sequential Picking ('Speed Picking' must be enabled)	If it is enabled, the entire control stays basically in the Picking Line Details screen, and the control jumps back to the Pick List screen only after the last line has been picked. The user can always jump back with the Back button, of course.				
Streamlined Picking	Enables a special POS-like mode for picking where all items are picked from a single bin location or non-bin warehouse. In this case, scanning an item code or barcode automatically adds a quantity of 1 (can be changed on the screen) to the picked quantity.				
Pick List lines quick refresh mode	When picking from a non-bin warehouse the Pick List - lines screen can be set to only refresh the current line data (quantities), not the whole list.				
Release active Pick List on timeout	During picking, the Pick List is allocated to the working employee. If there is a timeout and the worker is forced to the main menu, if this option is set the pick list will be reset to be available to others.				
Timeout interval for Picking (seconds)	If specified, the worker is forced to the main menu from picking after this many seconds of inactivity.				

3.8. Produmex Scan Strategies

The following table describes the fields that appear in the 'Produmex Scan Strategies' tab of the Produmex Scan Settings window.

Field	Description/Activity
Incoming strategies user query name	The user query name used for the incoming strategy.
Incoming strategies frequency (seconds)	Number of seconds to run the incoming strategy periodically. 0 = disabled.
Replenishment strategies user query name	The user query name used for the replenishment strategy.
Replenishment strategies frequency (seconds)	Number of seconds to run the replenishment strategy periodically. $0 = disabled$.
Allow changing target Bin Location allocation for Stock Transfer Draft	If the function is enabled, you are allowed to use a target bin location different from the one that is allocated on the Stock Transfer Draft.

4. How to customize Employee Master Data for Produmex

Scan with standard SBO tools

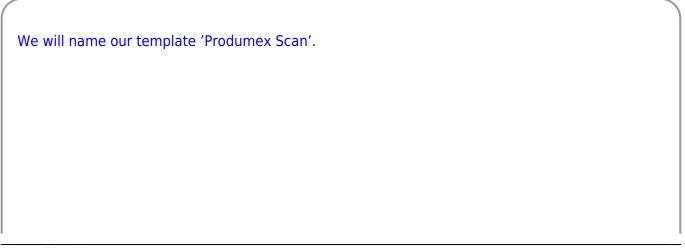
Disclaimer: This documentation describes the standard SAP Business One UI Configuration function.

4.1. Create a configuration template

Open the UI Configuration Template form by following the path: Administration > Utilities > UI Configuration Template.

Administration	UI Configuration Ten	nplate				_
Choose Company						
Exchange Rates and Indexes	UI Template		Name	US_SIMPLE		
E System Initialization	1 US_SIMPLE		Description	US Simplified UI Ten	nplate	
🛅 Setup						
🛅 Data Import/Export			For	ns	A <u>s</u> signed Users	
🗁 Utilities			Forms			
Period-End Closing			1 Inventory Tra	nsfer Request		
			2 A/R Invoice 3 Business Partn	er Master Data		
Check Document Numbering			4 Sales Order			
 Duplicate Layout Template 			5 Delivery			
 Data Archive Wizard 			6 A/P Invoice			
Master Data Cleanup Wizard			7 Purchase Orde 8 Goods Receipt			
			9 Purchase Regi			
Manual Master Data Series Convert			10 Sales Quotatio			
🔲 UI Configuration Template 🕴			11 Item Master Da			
Connected Clients			12 Incoming Pay			
			13 A/R Credit Me 14 Return	mo		
Approval Procedures			15 A/P Credit Me	mo		
E License			16 Goods Return			
Integration Service			17 Journal Entry			
Add-Ons	4	Þ		Edit Form UI	<u>С</u> ору То	>
E Workflow		_				
 Alerts Management 	OK Cancel					

Go to 'Add' mode and create a new template. On the Forms tab add the Employee Master Data. It is possible to assign the template to selected users only on the Assigned Users tab.



	UI Template			Name		Produmex Sc	an			
	US_SIMPLE	-								
2	Produmex Scan			Descri	iption	Produmex Sca	in			
					Form	16	Accir	gned Users		
			[_			1.543		_	1
		_			Forms					
		_		1	Employee Mast	er Data			*	
				2					-	
		_								
		-								
				_					_	
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	▲ ::::	in ►				Edit E	orm UI	Convita		
		P				Edit Ho	orm OI	<u>C</u> opy To		

4.2. Edit the Employee Master Data UI

Select the Employee Master Data line and click on the *Edit Form UI* button. The Employee Master Data form will open in UI Edit Mode.

Employee Master	Data -	UI Edit I	Mode					_	×	. ▲ 💌 🕨 General	۲	x	
First Name			Empl	oyee No.						Aut. for Batch Delivery	No	_	
Middle Name				Employee No.						Aut. for Batch SO Creation	No		
Last Name				ctive Employee						Aut. for Batch SO Transfer			
Lost Home				conce comproyee						Aut. for Batch Transfer	No		
Job Title										Aut. for Bin Attributes	No		
Position		•	Office	e Phone						Aut, for Bin Locking	No		
Department		•	Ext.							Aut. for Cash and Carry	No		
Branch		•	Mobi	e Phone						Aut. for Credit Note	No	•	
Manager			Page	r						Aut. for Free GR PO	No	•	
User Code		•	Home	e Phone						Aut. for Goods Issue	No	•	
Sales Employee		•	Fax							Aut. for Goods Receipt	No		
Cost Center			E-Ma	il						Aut. for Goods Receipt PO	No		
			Linke	d Vendor						Aut. for Issue for Prod.	No		
Address Men	nbership	Administr	ation	Personal	Finance	Remar	ks	Attachment	5	Aut. for Mass Transfer	No		
		-		_	-		_	_		Aut. for Packing	No	•	
Work Address				Home Add	ress					Aut. for Picking	No		1
										Aut. for Picking Delivery	No	•	
Street			_	Street						Aut. for Print Labels	No	•	
Street No.				Street No.						Aut. for Production Return	No	•	
Block				Block						Aut. for Quick Counting	No		
Building/Floor/Room				Building/Fk	oor/Room					Aut. for Receipt By-Products	No		
Zip Code				Zip Code						Aut. for Receipt from Prod.	No		
City				City						Aut. for Recommendations	No	•	
County				County						Aut. for Sales Issue	No	•	
State			-	State						Aut. for Sales Return	No		
Country				Country						Aut, for Stock Counting	No	•	
										Aut, for Stock Transfer	No	-	
										Aut. for Transfer Request	No	-	
										Default Printer		Ī	
										Mobile Password		٦	
Find Cano	el									PIN Code		-	

To add a new tab, select the Add tab option from the right-click menu.

We w	will add a Scan tab.	
А	Add Tab	
-	Tab Name Scan	
	OK Cancel	

Drag the User Defined Fields and drop it on the new tab. After the field is placed on the tab, it can be resized. To arrange the UDFs on the tab, select multiple fields and align them with a right-click menu aligning option.

It is also possible to move standard SBO fields or standard SBO buttons from other tab as well. As the

best practice, grab the button, place it on the header area, then go to the destination tab. Grab again the button and place it on the destination tab.

Please note: The Mobile User Preference and the Mobile User Printer button cannot be moved.

Employee Master Data - UI Edit	Mode	Employee Master Data	a				_ 🗆 >
First Name Middle Name Last Name	Emplayee No. Ext. Emplayee No.	First Name John Middle Name Last Name Doe		Employee No. Ext. Employee No. <u>Active Employee</u>]	
Job Title Position Department Branch Manager User Code	Office Phone Ext. Mobile Phone Pager Home Phone	Job Title Position Department Branch Manager User Code	* * *	Office Phone Ext. Mobile Phone Pager Home Phone			
Sales Employee Cost Center Address Membership Administration	Fax E-Mail Linked Vendor Finance	Sales Employee -No S Cost Center Address Membership	ales Employ▼ Administration	Fax E-Mail Linked Vendor Personal Rem	ar <u>k</u> s Atta <u>c</u> hments	Finance	Scan
Address Mempersin P Administrator Address Mempersin P Administrator Aut, for Batch Delivery No.♥ Aut, for Batch SO Transfer No.♥ Aut, for Batch SO Transfer No.♥ Aut, for Bin Locking No.♥ Aut, for Bin Locking No.♥ Aut, for Cash and Carry No.♥ Aut, for Cash and Carry No.♥ Aut, for Free GR PO No.♥ Aut, for Free GR PO No.♥ Aut, for Goods Issue No.♥ Aut, for Goods Issue No.♥ Aut, for Goods Receipt No.♥ Aut, for Goods Receipt No.♥ Aut, for Issue for Prod. No.♥ Aut, for Picking No.♥ Aut, for Picking No.♥ Aut, for Picking No.♥	Aut. for Production Return No Aut. for Production Return No Aut. for Oulck Counting No Aut. for Receipt By-Products No Aut. for Receipt By-Products No Aut. for Receipt By-Products No Aut. for Receipt By-Products No Aut. for Sales Issue No Aut. for Sales Return No Aut. for Sales Return No Aut. for Sales Return No Aut. for Stock Counting No Aut. for Stock Counting No Aut. for Transfer Neo Default Printer Mobile Password PIN Code	Address Mempersing Aut, for Batch Delivery Aut, for Batch SO Creation Aut, for Batch SO Creation Aut, for Batch SO Creation Aut, for Bin Attributes Aut, for Bin Attributes Aut, for Cash and Carry Aut, for Goods Receipt Aut, for Goods Receipt PO Aut, for Mass Transfer Aut, for Placking Aut, for Placking Aut, for Placking Aut, for Placking Aut, for Placking Aut, for Placking Aut, for Picking Delivery Aut, for Print Labels	Administration Yes ¥ Yes ¥	<u>P</u> ersonal Kem	args Attagnments Aut, for Production R Aut, for Quick Count Aut, for Receipt By-PI Aut, for Receipt from Aut, for Sales Issue Aut, for Sales Issue Aut, for Sales Return Aut, for Stock Count Aut, for Stock Count Aut, for Stock Count Aut, for Stock Transf Aut, for Transfer Req Default Printer Mobile Password PIN Code	eturn ing roducts Prod. itions	Scan Yes Yes

5. Configure HTTPS for Produmex Service Broker with a selfsigned certificate

5.1. Produmex Service Broker Settings

Open the Produmex Service Broker configuration window from the Produmex Service Broker.

Enable HTTPS by setting the 'HTTPS enable?' setting to True, then set the port you would like to use as the 'SSL Port to listen on'.

BX			Produmex Service Manager		_ [
File	Service	Help					
5.►	- T		ProdumexServiceBroker service config	uration	_ [) ×	
	Produ TEST	General Produ	dumex Service Broker				
	1201	Run As User	LocalSystem 🗸 🔛				
		Password	⊿ Misc				
		Start Mode	Auto Concurrent tasks (pie Debug writeline log?				
			Exit if any module loa				
			HTTPS enable? (true				
			Kill long time (second				
			Kill on memory usage				
			Kill time (seconds)	30			
			Modules to load (con		ingPDCPro	ocessor,B	
			Port to listen on	50231			
			Record comm.data d				
			Server discovery ena				
			SSL Port to listen on	50232			
			Concurrent tasks (pie Concurrent tasks (piece)]		
		ОК	Cancel			.:	

5.1. Create client certificate

Create the self-signed certificate on your server.

In this documentation we used MakeCert.exe which is a part of the Microsoft Windows SDK. You can download the Windows SDK from here:

- Windows 10: https://developer.microsoft.com/en-us/windows/downloads/windows-10-sdk
- Versions previous to Windows 10: https://developer.microsoft.com/en-us/windows/downloads/sdkarchive

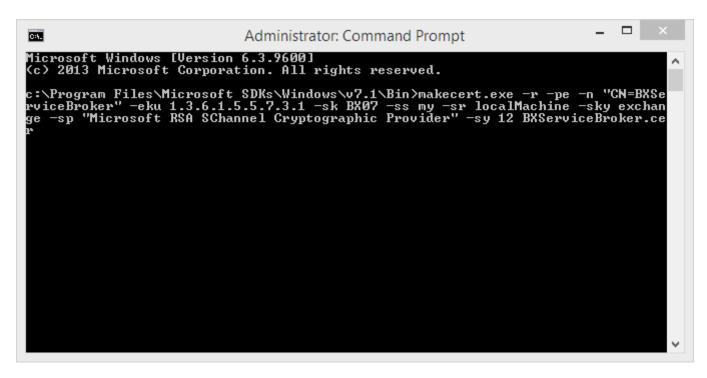
Open Command Prompt as an administrator and run the following command: <path>makecert.exe -r -pe -n "CN=<name>" -eku 1.3.6.1.5.5.7.3.1 -ss my -sr localMachine -sky exchange -sp "Microsoft RSA SChannel Cryptographic Provider" -sy 12 <filename>.cer

Replace <path> with the actual access path of the MakeCert.exe. Adapt the <name> and the <filename> as well.

```
In this example we used the following command:
C:\Program Files\Microsoft SDKs\Windows\v7.1\Bin\makecert.exe -r -pe -n
"CN=ServiceBroker" -eku 1.3.6.1.5.5.7.3.1 -ss my -sr localMachine -sky
exchange -sp "Microsoft RSA SChannel Cryptographic Provider" -sy 12
ServiceBroker.cer
```

27/32

In this documentation we used MakeCert.exe which is a part of the *Microsoft Windows SDK for Windows 7 and .NET Framework 4*. Please keep in mind that other versions of MakeCert or other certification generators might use different parameters.



5.2. Import the certificate on a Windows server

Run the Microsoft Management Console (mmc.exe). From the File menu select Add/Remove Snap-In.

a	Console1 - [Console Root]	×
File Action View Favorites Window Help		_ <i>6</i> ×
Console Root N	me	Actions
	There are no items to show in this view.	Console Root
	Add or Remove Snap-ins	
	You can select snap-ins for this console from those available on your computer and configure the selected set of snap-ins. For extensible snap-ins, you can configure which extensions are enabled. Available snap-ins: Selected snap-ins:	
	Snap-in Vendor ^ Edit Extensions	
	ActiveX Control Microsoft Cor	
	So Component Services Microsoft Cor Move Up	
	Image: Microsoft Cor Add > Image: Microsoft Cor Add > Image: Microsoft Cor Folder Image: Microsoft Cor Folder Image: Microsoft Cor Microsoft Cor Image: Microsoft Cor Microsoft Cor	
	B IP Security Policy M Microsoft Cor V	
	Description: The Certificates snap-in allows you to browse the contents of the certificate stores for yourself, a service, or a computer. OK Cancel	
		1

Choose the *Certificates* snap-in and add it to the 'Selected snap-ins'. On the opening Certificates snap-in select 'Computer account'. On the next screen choose *Local computer* (or select the computer account) then click on the Finish button.

	Select Computer	
elect the computer you war	nt this snap-in to manage.	
This snap-in will always ma	nage:	
Local computer: (the c	computer this console is running on)	
O Another computer:		Browse
only applies if you save	nputer to be changed when launching from the comr e the console.	

On the Console navigate to Certification via Certificates (Local computer) > Trusted Root Certification Authorities > Certification. Right-click on Certification and select *Import...* from *All Tasks*.

	Favorites Window He	р									
nsole Root		Issued T	•	Issued Bv	Expiration Date	Intended Purposes	Friendly Name	Status (c ^	Actions	
☐ Certificates (Local Computer)		AddTrust External CA Root		AddTrust External CA Root	5/30/2020	Server Authenticati	The USERTrust Net			Certificates	
				Administrator		<all></all>	blop				
							CN=Administrator			More Actions	
Certificator	All Tasks		Import	AffirmTrust Commercial	12/31/2030	Server Authenticati	AffirmTrust Comm				
Enterprise T	All Tasks	- '	nore cypermust Noot	Baltimore CyberTrust Root	5/13/2025	Server Authenticati	DigiCert Baltimore				
Intermediate	View	+	m CA	Certum CA	6/11/2027	Server Authenticati	Certum				
Trusted Pub Untrusted C	New Window from Here		m Trusted Network CA	Certum Trusted Network CA	12/31/2029	Server Authenticati	Certum Trusted Ne				
Third-Party			bers of Commerce Root	Chambers of Commerce Root - 2	7/31/2038	Server Authenticati	Chambers of Com				
Trusted Peo	New Taskpad View		2 Primary CA	Class 2 Primary CA	7/7/2019	Secure Email, Serve	CertPlus Class 2 Pri				
Client Authe	Refresh		3 Public Primary Certificat	Class 3 Public Primary Certificatio	8/2/2028	Secure Email, Client	VeriSign Class 3 Pu				
Remote Des	Export List		ODO RSA Certification Au	COMODO RSA Certification Auth	1/19/2038	Server Authenticati	COMODO SECURE™				
Smart Card	-		right (c) 1997 Microsoft C	Copyright (c) 1997 Microsoft Corp.	12/31/1999	Time Stamping	Microsoft Timesta				
Trusted Dev	Help	-	ert Assured ID Root CA	DigiCert Assured ID Root CA	11/10/2031	Server Authenticati	DigiCert				
📔 Web Hosting		🗔 DigiC	ert Global Root CA	DigiCert Global Root CA	11/10/2031	Server Authenticati	DigiCert				
📔 Windows Live ID	Token Issuer	JojiCert Global Root G2 JojiCert High Assurance EV Ro DST Root CA X3 Entrust Root Certification Auth Entrust Root Certification Auth		DigiCert Global Root G2	1/15/2038	Server Authenticati	DigiCert Global Roo				
				DigiCert High Assurance EV Root	11/10/2031	Server Authenticati	DigiCert				
				DST Root CA X3	9/30/2021	Secure Email, Serve	DST Root CA X3				
				Entrust Root Certification Authority	11/27/2026	Server Authenticati	Entrust				
				Entrust Root Certification Authori	12/7/2030	Server Authenticati	Entrust.net				
		🔄 Entru	st.net Certification Author	Entrust.net Certification Authority	7/24/2029	Server Authenticati	Entrust (2048)				
		🔄 Equif	ax Secure Certificate Auth	Equifax Secure Certificate Authority	8/22/2018	Secure Email, Serve	GeoTrust				
		🔄 Geo T	rust Global CA	GeoTrust Global CA	5/21/2022	Server Authenticati	GeoTrust Global CA				
		GeoT	rust Primary Certification	GeoTrust Primary Certification Au	7/17/2036	Server Authenticati	GeoTrust				
		🔄 Geo T	rust Primary Certification	GeoTrust Primary Certification Au	12/2/2037	Server Authenticati	GeoTrust Primary C				
		🔄 Globa	alSign	GlobalSign	3/18/2029	Server Authenticati	GlobalSign Root CA				
		🔄 Globa	alSign	GlobalSign	12/15/2021	Server Authenticati	Google Trust Servic				
		📮 Globi	alSign Root CA	GlobalSign Root CA	1/28/2028	Server Authenticati	GlobalSign Root CA				
			addy Class 2 Certification	Go Daddy Class 2 Certification Au	6/29/2034	Server Authenticati	Go Daddy Class 2 C				
				Go Daddy Root Certificate Author		Server Authenticati	Go Daddy Root Cer				
		GTE (CyberTrust Global Root	GTE CyberTrust Global Root	8/14/2018	Secure Email, Client	DigiCert Global Root				
				Microsec e-Szigno Root CA 2009	12/30/2029	Server Authenticati	MicroSec e-Szigno				
		Micro	scoft Authenticode(tm) Ro	Microsoft Authenticode(tm) Root	1/1/2000	Secure Empil: Code	Microsoft Authenti	>	×		

Follow the steps of the Certificate Import Wizard. Browse the ServiceBroker.cer, place the certificate to the Trusted Root Certification Authorities certificate store and finish the import.

Then import the certificate to the Personal folder as well, following the above described steps.

5.3. Bind the certificate to the port number

Bind the ServiceBroker.cer to the port number.

In this example we use the following netsh command in order to configure the certification to the port number.

Run the following command with Command Prompt:

netsh http add sslcert ipport=0.0.0.0:port certhash=thumbprint appid={appguid}

Where:

• **ipport**: is the IP address and the listening port. You can use a special IP address 0.0.0.0 that matches any IP address for the local machine. The listening port must be the same as the 'SSL Port to listed on' that is set on the Produmex Service Broker service configuration screen.

	ProdumexS	erviceBroker service configuration 🛛 🗖 🗖	x					
General P	rodumex Service Broker							
Run As Us	er LocalSystem	✓ 📰 2↓ 📼						
Password		4 Misc						
		Concurrent tasks (piece)[0 0	Concurrent tasks (piece)[C 0					
Start Mode	Auto	Debug writeline log? (true, false						
		Exit if any module loading true						
		HTTPS enable? (true/fals True						
		Kill long time (seconds) 300						
		Kill on memory usage (mby 1000						
		Kill time (seconds) 30						
		Modules to load (comma s						
		Port to listen on 50231						
		Record comm.data details false						
		Server discovery enable? true						
		SSL Port to listen on 50232						
		Concurrent tasks (piece)[0-not limited] Concurrent tasks (piece)[0-not limited]						
ОК	Cancel							

- **certhash**: The thumbprint of the certificate is the certificate's SHA-1 hash, represented in hexadecimal. In order to determine the certhash, open the certificate and go to the Details tab. Copy the thumbprint value to a text editor and remove all spaces between the hexadecimal characters. Make sure that there are no hidden characters in the string. (Eg. select the line and set the encoding to ANSI.)

•	sslcert ipport=0.0.0.0:50232 5b70e88c9c904fe5149ad170ff89433102 appid 52d36c3}	={d4deb269-37e6-
Cat.	Administrator: Command Prompt	- 🗆 ×
	: [Version 6.3.9600] t Corporation. All rights reserved.	^
C:∖>netsh http ad a55bc7b40336846cf	ld sslcert ipport=0.0.0.0:50232 certhash=9a6893 appid={d4deb269-37e6-49db-a9cd-cd74f52d36c3>	25d88b50b746e8ad41
	successfully added	
C:\>		
		· · · · · · · · · · · · · · · · · · ·

5.4. Import the certificate

Besides the server, the certificate has to be imported on every computer that connects to Produmex Service Broker over HTTPS.

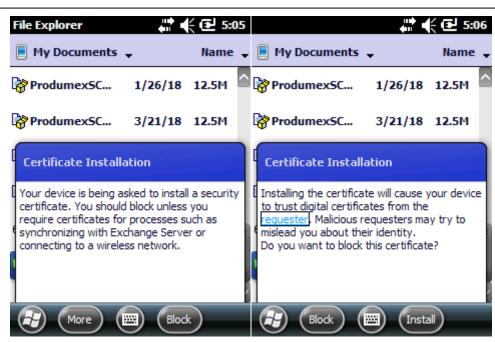
5.4.1. Import the certificate on a mobile device

In this example we installed the certificate on a Honeywell Dolphin 60 device with Windows Embedded Handheld 6.5 Classic operating system. The installation steps may differ based on the operating system and the device.

Copy the certificate file to the device, eg. to the *My Documents* folder.

Open the File Explorer from Start>Programs>File Explorer and open the folder where you copied the certificate. Tap on the certificate file you would like to import.

A 'Certificate Installation' message opens up. Press the 'More' button. To see the details of the certificate file, tap on the 'requester' link. To install the certificate, press the 'Install' button.



If the installation is successful, a confirmation message is displayed. The certificate is imported to the Root folder of Certificates.

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