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 💽

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 rester 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 the Master Data in the 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.

cription	Bin Code Layout File	Stock Normal Label Layout File	Stock Batch Label Layout File	Stock Serial Label Layout File
15 labels (CPCL)	BinCode10x15_CPCPL.prn	StockLabel10x15_CPCL.prn	StockLabel10x15_CPCL.prn	StockLabel10x15_CPCL.prn
15 labels (ZPL)	BinCode10x15_ZPL.prn		StockLabel10x15_ZPL.prn	
20 labels (CPCL)	BinCode15x20_CPCPL.prn		StockLabel15x20_CPCL.prn	
20 labels (ZPL)	BinCode15x20_ZPL.prn		StockLabel15x20_ZPL.prn	
4 (Crystal)	BinCodeA4.rpt		StockLabelA4L.rpt	
4 (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

5/31

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. 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.

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

Select the type of the printer from the Printer Type dropdown menu. The following printer types are supported:

- Crystal
- Zebra CPCL
- Zebra ZPL

nters Setup							
Description	Is Active	Is Network Printer	IP Address	Port Number	Local Printer Name	Printer Type	
Canon MG3500	 Image: A start of the start of			0	Canon MG3500 series Printer XPS	Crystal	•
Mobile Zebra	\checkmark	✓	192.168.0.144	9100		ZebraCPCL	•
							-
OK Cancel							

It is possible to assign layouts that can be used with the printer. Select the line of the printer then 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.

Printers -	- Select Layou	t Sets			×
Printer Desc	ription	Backup Zebra)
Layout	: Set Code		Visual Order		
10x15 la	abels (ZPL)	*		1	-
15x20 la	abels (ZPL)	•		2	
A4 (ZPI	L)	•		3	
		*			
					-
ОК	Cancel				

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.

Last update:	
2019/03/13	implementation:scan:completeconfgui
12:10	

implementation:scan:completeconfguide http://wiki.produmex.name/doku.php?id=implementation:scan:comple	eteconfguide
--	--------------

🖳 Printing Preferences	2
Barcode Fonts Custom Commands Impor Options Advanced Setup	Command Fonts nt/Export settings Tools About Dithering Stocks Printer Memory
Settings <u>N</u> o. Of Copies: Speed:	1 12.7 m/s
Darkness: Sjocks:	15 Ver defined
Paper Format © gm © <u>m</u> m © jnch	
Size <u>W</u> idth: 10,50 Height: 8,00	_
Unprintable Area	Tgp: 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.

General	ings Stoo Sharing	ks Lang Ports	puage Barcod Advanced	e Fonts Colo	Comman Managem	dFonts Abou ent Security
C Awai	/s available ible from	00:00	2	То	00:00	<u></u>
Priority:	1	2 X				
Drivers	ZDesi	gner GK420	lt		* N	lew Driver
@ Spool	print docu	ments so p	rogram finishe	s printin	g føster	
0.5	art printing	after last p	age is spooled			
ເງ ເງ	art printing art printing	after last p immediat	rage is spooled ely			
C 9 C Print	art printing art printing directly to t	after last p immediat he printer	rage is spooled ely			
C Print	art printing art printing directly to t mismatche	after last p immediat he printer d documer	rage is spooled ely nts			
C S C Print Hold	art printing art printing directly to t mismatche spooled do	after last p immediat he printer d documer cuments fi	rage is spooled ely nts			
C Print C Print Hold Print	art printing art printing directly to t mismatche spooled do printed doo	after last p immediat he printer d documer cuments fi cuments	rage is spooled ely nts rst			
C Print C Print Hold Print Keep E Enabl	art printing art printing directly to t mismatche spooled do printed doo e advanced	after last p immediat he printer d documen cuments fi uments printing fe	rage is spooled ely nts rot satures			

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.

Employee Master	Data					▲ ▼ ▶ General		* <u>×</u>
First Name	loho	Employee No.	1			Aut, for Bin Loc, Locking	No	•
fiddle Name	John	Employee No.	-			Aut. for Cash and Carry	No	•
nddie Name	Dee	Ext. Employee No.	-			Aut. for Credit Note	No	•
ast Name	DOE	V Active Employe	-			Aut. for Goods Issue	No	•
ob Title						Aut. for Goods Receipt	No	•
osition	•	Office Phone				Aut, for Goods Receipt PO	Yes	•
Department	•	Ext.				Aut, for Issue for Prod.	Yes	•
Branch	•	Mobile Phone				Aut. for Picking	Yes	*
1anager		Pager				Aut. for Picking Delivery	No	•
Jser Code	*	Home Phone				Aut. for Quick Counting	No	•
ales Employee 🛛 📫	-No Sales Employ▼	Fax		6		Aut. for Receipt from Prod.	Yes	•
Cost Center		E-Mail				Aut. for Recommendations	No	•
		Linked Vendor				Aut. for Sales Issue	No	•
Address Mem	bership Administ	tration Personal	Finance	Remarks	Attachments	Aut. for SO Creation	No	•
		-	_	_	_	Aut. for SO Transfer	No	•
Work Address		Home Ac	ddress			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	o.			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	1			Aut. for Packing	Yes	•
City	San Diego	City				Aut. for Print Labels	No	•
County		County				Aut. for Production Return	Yes	•
State	115.4	* State				Aut. for Receipt By-Products	No	•
Country	USA	* Country				Aut. for Transfer Request	No	•
						Default Printer	0000009	
						Mobile Password	2RprVzCG	
						PIN Code	6752	
OK Cance	d							

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		••••	ᡘ᠊ᡧ	٤×
Company	TEST_S	CAN		
User	3456			
User Name	John Doe	•		
Password				
Printer	Mobile Z	ebra 01		
Client versior	n: 17.04.06	001.18	920	
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		Emplo	yee No.	1		
4iddle Name				Ext. E	mployee No.			
ast Name		Doe		🗸 🖌	ctive Employe	ee .		
ob Title								
osition			•	Office	Phone			
epartment	•		Ext.					
iranch			*	Mobile	Phone			
lanager				Pager				
lser Code			•	Home	Phone			600
ales Employee	-	-No Sales	Employ	Fax		_		
Cost Center				E-Mai				
				Linke	d Vendor			
Address	Memb	ership	Adminis	tration	Personal	Finance	Remar	r <u>k</u> s Attaghment
Status Termination Date					-	Educatio	n	
Termination Reas	on				•	Reviews		
	F	Remove) 📮	Previ <u>o</u> us Empl	oyment	
	E	Relations	hip Map		N	1obile User Pre	ferences	
	l. I	Mobile U	lser Prefere	ences		Mobile User P	rinters	
		Mobile U	lser Printer	s	1 -			

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.

 $implementation: scan: complete confguide \ http://wiki.produmex.name/doku.php?id=implementation: scan: complete confguide \ http://wiki.php?id=implementation: scan: complete confguide \ http://wiki.php?id=implementation: scan: complete confguide \ http://wiki.php?id=implementation: scan: complete confguide \ http://wiki.php?id=implementation$

EmployeeID	1	Employee Name Do	e, John
Mobile Menu	u ID	Visual Order	
ButtonPickin	ng	*	1 🔿
ButtonPacki	ng	*	2
		•	
			-

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

🐮 🛛 Main Menu		`‰≮	Ξ×
TEST_SCAN	John D	oe	^
Favourites	_		
	-		
Dicking Da	king		
Picking Pa	comy		-11
Goods Receipt F	0		
	1-10-		
GR PO Free	GR PO		
Production			
	1		~
		Log Ou	ıt

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	lohe		Emplo	wee No.	1			
Middle Name	John	_	Ext. E	mplovee No.		_		
Last Name	Doe			tive Employee				
Job Title								
Position		•	Office	Phone				
Department		•	Ext.					
Branch		•	Mobile	Phone				
Manager			Pager	-1				
User Code		•	Home	Phone			494	
Sales Employee 🛛 🔛	-No Sales	Employ*	Fax			_	<u></u>	
Cost Center			E-Mai			_		
			Linke	d Vendor				
Add <u>r</u> ess Mem	gership	Adminis	tration	Personal	Finance	Remar	25	Attachments
Status				•	Educatio			
Status				-	Educatio	0		
Termination Date					Deviewe			
Termination Reason				-	Keviews			
	Person			Pr	evi <u>o</u> us Emple	oyment		
	Remov	e		Mo	bile User Pre	ferences		
	<u>R</u> elatio	nship Ma	p				1	
	Mobile	User Pref	erences		1obile User P	rinters		
		User Prin	ters				•	
	Mobile							
	Mobile							
	Mobile			_				
	Mobile			_				
	Mobile			_				

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.

 $implementation: scan: complete confguide \ http://wiki.produmex.name/doku.php?id=implementation: scan: complete confguide \ http://wiki.php?id=implementation: scan: complete confguide \ http://wiki.php?id=implementation: scan: complete confguide \ http://wiki.php?id=implementation: scan: complete confguide \ http://wiki.php?id=implementation$

EmployeeID	1	Emple	yee Name Doe, John		Ι.
Printer			Visual Order		
Mobile Zebra	01	•		1	-
Backup Zebr	а	•		2	
Mobile Zebra	02	•		3	
_		•			
_					
-					
					-
					_

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	<i>₽</i> ₩₩	🐮 Print La	bels	# 🔀 €	Ξ×	🐮 Printers	# 72 €	۳×
Company	TEST_SCAN	Remarks	A1000 *	Normal Paper		Name: Mobile Zebra 01		<u> </u>
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				
Client version	17.04.06001.18920							•
Logi	n Exit	Prin	t	Back		Choose	Cance	¥

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

Field	Description/Activity
Paper Orientation (Reports)	Paper orientation for reports. Example: portrait, landscape
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 ' <i>ButtonAdd</i> ' 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.
Keep base document line order for Delivery (instead of picking order)	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
Item code or item barcode must be scanned for Sales Order	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.
Item code or item barcode must be scanned during Picking	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 quantit 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 CodeID, 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.

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.

- http://wiki.produmex.name/

4.1. Create a configuration template

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

Administration	• U	l Config	uration Tem	plate						_
Choose Company										
Exchange Rates and Indexes		UI Temp	plate		Name	1	US_SIMPLE			
	1	US_SIM	PLE	-			UC Circlifted UT Terr	-lata		
System Initialization	-				Descr	iption	US Simplified Of Tem	plate		
🛅 Setup									1	_
🛅 Data Import/Export						F <u>o</u> rm:	5	Assigr	ned Users	
🗁 Utilities	-					Forms				
Period-End Closing					1	Inventory Tran	sfer Request			-
					2	A/R Invoice	Mastas Data			
Check Document Numbering					4	Sales Order	r Master Data			
 Duplicate Layout Template 					5	Delivery				
Data Archive Wizard	-				6	A/P Invoice				
	-				7	Purchase Order				
Master Data Cleanup Wizard					8	Goods Receipt P	×0			
Manual Master Data Series Convert					9	Purchase Reque	st			
					11	Item Master Dat	3			
	_				12	Incoming Paym	ents			
Connected Clients	-				13	A/R Credit Mem	0			
Approval Procedures					14	Return				
P License					15	A/P Credit Mem	0			
					16	Goods Return				
Integration Service				-	-	Journal Entry				
🛅 Add-Ons		•	444	•			Edit Form UI		<u>С</u> ору То	
🛅 Workflow										
 Alerts Management 		ОК	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.

We will name our template 'Produmex Scan'.	

	UI Template		N	ame		Produmes	x Scan			
L	US_SIMPLE	-								
2	Produmex Scan			escri	iption	Produmex	Scan			
		-		_			`			
					F <u>o</u> rm	5		A <u>s</u> signed Users		
					Forms					
				1	Employee Mast	er Data				
				2					•	
		-								
									_	
										r -
	4	-				-	the constant	Carry		
	• · · · · · · · · · · · · · · · · · · ·					Ed	it Form 01		0	

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	Mode					_	. ×	▲ ▼ ▶ General	•	×	•
First Name						_			Aut. for Batch Delivery	No	•	
Mirst Name		Empk	mployee No.						Aut. for Batch SO Creation	No	•	
Middle Name		Ext. E	mployee No.						Aut. for Batch SO Transfer	No	-	
Last Name		✓ A	ctive Employee	2					Aut. for Batch Transfer	No	-	
Job Title									Aut. for Bin Attributes	No	-	
Position	•	Office	Phone						Aut. for Bin Locking	No	-	
Department	•	Ext.				ī .			Aut. for Cash and Carry	No	-	
Branch	•	Mobile Phone				ī .			Aut. for Credit Note	No	-	
Manager		Pager	r			1			Aut, for Free GR PO	No	-	
User Code	•	Home	Phone			ī .			Aut, for Goods Issue	No	-	
Sales Employee	•	Fax				1			Aut. for Goods Receipt	No	-	
Cost Center		E-Mai	1			1			Aut, for Goods Receipt PO	No	-	
		Linke	d Vendor			1			Aut. for Issue for Prod.	No	-	
Address Mam	horchin Administ	untion (Demonal	Einance	Pom	arke I	Attachman	-	Aut. for Mass Transfer	No	-	
Address Meni	persnip Administ	ration	Personal	Figance	Nem	ai <u>K</u> a	Attagnmen		Aut, for Packing	No	-	
Work Address			Home Ad	dress					Aut. for Picking	No	-	
									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 Ouick Counting	No	-	
Building/Floor/Room			Building/F	loor/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		1	
									Mobile Password			
Find Cance									PIN Code			

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

We will add a So	can tab.	
Add Tab		
Tab Name	Scan	
ок	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	a - UI Edit N	lode				- ×	Employee	e Master	Data	_				
First Name		Employee No.					First Name		John	Employee No	s. (i	1		
Middle Name		Ext. Employee	No.				Middle Name			Ext. Employe	e No.	JD1		
Last Name		Active Emp	loyee				Last Name		Doe	Active En	nployee			
Job litte	-	0/7 0	_				Job Title			010 01	C.			
Position	-	Office Phone					Position			Office Phone				
Department		Ext.					Department			Ext.				
Branch	•	Mobile Phone					Branch			Mobile Phone	e			
Manager		Pager					Manager			Pager				
User Code	-	Home Phone					User Code			Home Phone			100	
Sales Employee	•	Fax					Sales Employe	ie 🚽	-No Sales Employ*	Fax				
Cost Center		E-Mail					Cost Center			E-Mail				
		Linked Vendor								Linked Vend	or		J	
Add <u>r</u> ess Mem <u>b</u> ership	Administration	Personal	Remar <u>k</u> s	Attachments	Fi <u>n</u> ance	Scan	Address	Mem <u>b</u> en	ship Administration	<u>P</u> ersonal	Remar <u>k</u> s	s Atta <u>c</u> hments	Fi <u>n</u> ance	Scan
Aut, for Batch Delivery	No 🔻		Aut.	for Production Re	eturn	No 🔻	Aut. for B	atch Delivery	Yes 🔻		Au	t. for Production R	eturn	Yes 🔻
Aut, for Batch SO Creation	No 🔻		Aut.	for Quick Counti	ing (No 🔻	Aut. for B	atch SO Crea	tion Yes 🔻		Au	t. for Quick Counti	ng	Yes 🔻
Aut, for Batch SO Transfer	No 🔻		Aut.	for Receipt By-Pr	roducts	No 🔻	Aut. for B	atch SO Tran	sfer Yes 🔻		Au	t. for Receipt By-Pr	oducts	Yes 🔻
Aut. for Batch Transfer	No 🔻		Aut.	for Receipt from I	Prod.	No 🔻	Aut. for B	atch Transfer	Yes 🔻		Au	t. for Receipt from	Prod.	Yes 🔻
Aut, for Bin Attributes	No 🔻		Aut.	for Recommendat	tions	No 🔻	Aut. for B	in Attributes	Yes 🔻		Au	t. for Recommenda	tions	Yes 🔻
Aut, for Bin Locking	No 🔻		Aut.	for Sales Issue		No 🔻	Aut. for B	in Locking	Yes 🔻		Au	t. for Sales Issue		Yes 🔻
Aut, for Cash and Carry	No 🔻		Aut.	for Sales Return		No 🔻	Aut. for C	ash and Carr	y Yes 🔻		Au	t. for Sales Return		Yes 🔻
Aut. for Credit Note	No 🔻		Aut.	for Stock Counti	ing	No 🔻	Aut. for C	redit Note	Yes 🔻		Au	t. for Stock Counti	ng	Yes 🔻
Aut. for Free GR PO	No 🔻		Aut.	for Stock Transfe	er	No 🔻	Aut. for F	ree GR PO	Yes 🔻		Au	t. for Stock Transfe	er -	Yes 🔻
Aut. for Goods Issue	No 🔻		Aut.	for Transfer Requ	uest	No 🔻	Aut. for G	oods Issue	Yes 🔻		Au	t. for Transfer Requ	Jest	Yes 🔻
Aut. for Goods Receipt	No 🔻		Defa	ult Printer			Aut. for G	oods Receipt	Yes 🔻		De	fault Printer		
Aut. for Goods Receipt PO	No 🔻		Mob	ile Password			Aut. for G	oods Receipt	PO Yes 🔻		Mo	bile Password		
Aut. for Issue for Prod.	No 🔻		PIN	Code			Aut. for Is	sue for Prod	Yes 🔻		PI	N Code		
Aut. for Mass Transfer	No 🔻						Aut. for M	ass Transfer	Yes 🔻					
Aut. for Packing	No 🔻						Aut. for P	acking	Yes 🔻					
Aut. for Picking	No 🔻						Aut. for P	icking	Yes 🔻					
Aut, for Picking Delivery	No 🔻						Aut. for P	icking Deliver	ry Yes ▼					
Aut. for Print Labels	No 🔻						Aut. for P	rint Labels	Yes 🔻					
Find Cancel							ОК	Cancel						

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				Pro	odumex	Servic	e M	anag	ger				-		×
File	Service	Help													
÷ •	Т			Prod	umexSe	erviceB	roke	er ser	rvice cor	nfigurat	tion		-		×
	Produ	General Prod	umex Service B	Broker											
	1201	Run As User	LocalSystem			~		A↓	-						
		Password					4	Mise	С						
		Start Mode	Auto					Cono	current task ug writeling	ts (piece)	C O Epico				
			100					Exit i	if anv modu	le loading	i true				
								HTT	PS enable	? (true/fal	s True				
								Kill lo	ong time (se	conds)	300				
								Kill o	on memory u	usage (mb	y 1000				
								Kill ti	ime (second	ds)	30				
								Mod	lules to load	l (comma	s BXMan	ufacturi	ngPDC	Proces	sor,B
								Port	to listen on		50231				
								Rec	ord comm.d	lata detail	s false				
								Serv	ver discover	y enable?	? true				
								SSL	Port to liste	en on	50232				
							Co	oncure	rent tasks (pi	s (piece) iece)[0-no) [0-not li t limited]	imited]			
		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
```

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.

		Console1 - [Console Root]	_ 🗆 🗡
File Action View Favorites Window He	elp		- & ×
	1		
Console Root	Name		Actions
		There are no items to show in this view.	Console Root
			More Actions
		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 A Edit Extensions	
		ActiveX Control Microsoft Cor Up Ceronicates - Current User Remove	
		Certificates Microsoft Cor	
		Component Services Microsoft Cor	
		Add > Move Down Microsoft Cor Add >	
		Event Viewer Microsoft Cor	
		Group Policy Object Microsoft Cor	
		Internet Informatio Microsoft Cor I D Security Meditor Microsoft Cor.	
		Jeseurity Maintain Microsoft Cor Advanced	
		Description:	
		The Certificates snap-in allows you to browse the contents of the certificate stores for yourself, a service, or a computer.	
		OK Carrel	
]

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 Co	mputer		
ect the computer you want this snap-in to manage	в.		
his snap-in will always manage:			
Local computer: (the computer this console is	running on)		
Another computer:		Brow	vse
only applies if you save the console			
	(Deale	Patrick	

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*.

ole Root ertificates (Local Computer) Personal Insted Root Certification Authorities Interprise1 Intermediat Intermediat Intermediat Interdec View Intrusted Pub Intrusted C Interdect View Intrusted Pub Intrusted	Issued To AddTrust External CA Root Administrator	Issued By AddTrust External CA Root	Expiration Date	Intended Purposes	Friendly Name	Chature (
Certificates (Local Computer) Personal Trusted Root Certification Authorities Certification Certification Certificates Cer	AddTrust External CA Root	AddTrust External CA Root	5 (20 (2020			Jugids 1	C	Actions
Personal Trustel Root Certification Authonities Trustel Root Certification Intermediate Trustel Pub Untrusted C Third-Party Client Autho Remote Des Smart Cerd Trusted Dev With Meaning	Administrator	Administrator	5/30/2020	Server Authenticati	The USERTrust Net			Certificates
Trusted Root Certification Authonities Certification Authonities Enterprise T Intermediat Uriew Untrusted Pub Untrusted C Third-Party Client Author Client Author Refresh Remote Des Export List Smart Carl Trusted Dev Help With bleating	Administrator	Administrator	5/20/2027	<all></all>	b1op			Mars Astisms
All Tasks EnterpriseT All Tasks Intermediate Trusted Pub Untrusted C Third-Party Trusted Pow Client Authe Remote Des Smart Card Tututed Dev With bleating		Administrator	1/24/2025	<all></all>	CN=Administrator,			More Actions
Enterprise 1 Intermediate View Untrusted Cu Thrusted Party Trusted Performance View Client Author Remote Des Smart Card Untrusted Cu With Meaning	Import	AffirmTrust Commercial	12/31/2030	Server Authenticati	AffirmTrust Comm			
Trusted Pub Untrusted C New Window from Here Third-Party New Taskpad View Client Authy Refresh Remote Des Export List Smart Carl Uttated Dev.	nore cyber rust Koot	Baltimore CyberTrust Root	5/13/2025	Server Authenticati	DigiCert Baltimore			
Tusted Pub New Window from Here Third-Party New Taskpad View Trusted Pool New Taskpad View Client Authe Refresh Smart Card Help With Menter With Menter	Im CA	Certum CA	6/11/2027	Server Authenticati	Certum			
Third-Party Trusted Peo Client Author Remote Des Smart Card Trusted Dev With bleating	im Trusted Network CA	Certum Trusted Network CA	12/31/2029	Server Authenticati	Certum Trusted Ne			
Trusted Peo Client Author Remote Des Smart Card Trusted Dev Help	nbers of Commerce Root	Chambers of Commerce Root - 2	7/31/2038	Server Authenticati	Chambers of Com			
Client Authe Remote Des Smart Card Work Heating	2 Primary CA	Class 2 Primary CA	7/7/2019	Secure Email, Serve	CertPlus Class 2 Pri			
Remote Des Smart Card Trusted Dev Web kteine	3 Public Primary Certificat	Class 3 Public Primary Certificatio	8/2/2028	Secure Email, Client	VeriSign Class 3 Pu			
Smart Card Trusted Dev Help	ODO RSA Certification Au	COMODO RSA Certification Auth	1/19/2038	Server Authenticati	COMODO SECURE™			
Trusted Dev Help	right (c) 1997 Microsoft C	Copyright (c) 1997 Microsoft Corp.	12/31/1999	Time Stamping	Microsoft Timesta			
Mah Hasting	lert Assured ID Root CA	DigiCert Assured ID Root CA	11/10/2031	Server Authenticati	DigiCert			
web Hosting	DigiCert Global Root CA	DigiCert Global Root CA	11/10/2031	Server Authenticati	DigiCert			
Windows Live ID Token Issuer	DigiCert Global Root G2	DigiCert Global Root G2	1/15/2038	Server Authenticati	DigiCert Global Roo			
	DigiCert High Assurance EV Ro	DigiCert High Assurance EV Root	11/10/2031	Server Authenticati	DigiCert			
	DST Root CA X3	DST Root CA X3	9/30/2021	Secure Email. Serve	DST Root CA X3			
	Entrust Root Certification Auth	Entrust Root Certification Authority	11/27/2026	Server Authenticati	Entrust			
	Entrust Root Certification Auth	Entrust Root Certification Authori	12/7/2030	Server Authenticati	Entrust.net			
	Entrust.net Certification Author	Entrust.net Certification Authority	7/24/2029	Server Authenticati	Entrust (2048)			
	Equifax Secure Certificate Auth	Equifax Secure Certificate Authority	8/22/2018	Secure Email Serve	GeoTrust			
	GeoTrust Global CA	GeoTrust Global CA	5/21/2022	Server Authenticati	GeoTrust Global CA			
	GeoTrust Primary Certification	GeoTrust Primary Certification Au	7/17/2036	Server Authenticati	GeoTrust			
	GeoTrust Primary Certification	GeoTrust Primary Certification Au	12/2/2037	Server Authenticati	GeoTrust Primary C			
	GlobalSign	GlobalSign	3/18/2029	Server Authenticati	GlobalSign Root CA			
	GlobalSign	GlobalSign	12/15/2021	Server Authenticati	Google Trust Servic			
	GlobalSign Boot CA	GlobalSign Root CA	1/28/2028	Server Authenticati	GlobalSign Root CA			
	Go Daddy Class 2 Certification	Go Daddy Class 2 Certification Au	6/20/2034	Server Authenticati	Go Daddy Class 2 C			
	Go Daddy Root Certificate Auth	Go Daddy Root Certificate Author	1/1/2038	Server Authenticati	Go Daddy Class 2 C			
	GTE CuberTrust Global Poot	GTE CuberTruct Global Poot	0/14/2010	Server Authenticati	DisiCast Clabal P			
	I marone cybernust blobar koot	OTE Cyber Hust olobal Noot	0/19/23/10		OT INCOM FOOT			
	Microrec e Szigne Reet CA 2000	Microsoc e-Szigno Poot CA 2000	12/20/2020	Secure Email, Clienc	MicroSec e-Stiers			

Add a certificate to a store

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.

	ProdumexSe	rviceBroker service configuration 🛛 🗕 🔍 🗙
General Prod	umex Service Broker	
Run As User	LocalSystem	
Password Start Mode	Auto	Misc Concurrent tasks (piece)[[0 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.)

Example command:

netsh http add sslcert ipport=0.0.0.0:50232 certhash=a828d05b70e88c9c904fe5149ad170ff89433102 appid={d4deb269-37e6-49db-a9cd-cd74f52d36c3}

Cev.	Administrator: Command Prompt	- 🗆 ×
Microsoft Windows [] (c) 2013 Microsoft (Jersion 6.3.9600] Corporation. All rights reserved.	
C:\>netsh http add s a55bc7b40336846cf aj	sslcert ipport=0.0.0.0:50232 certhash=9a68925 ppid={d4deb269-37e6-49db-a9cd-cd74f52d36c3>	d88b50b746e8ad41
SSL Certificate suc	cessfully 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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