Licensing System

Requesting a Produmex License

Fill out all necessary fields on the license request page (the ones marked with *) and add the products for which you need the license (there is an employee and a terminal version of all mobile products, you need to select the one that suits your needs best). You can request a Produmex license at our license request web page: http://www.produmex.com/request-produmex-license-keys/

produmex	ERP -> Warehousing -> Manufacturing -> Mo	bbility ~ Integration ~ Industries ~
	Request your Produmex license keys	
Please complete the form below, in order to request one or more	re Produmex License Key(s).	
License data will be sent to the partner email address that is en	tered in the form.	
Types of licenses:		
 New — license for a new installation at a new customer Production — permanent license for a customer, valid fo Extension of existing license — additional user licenses Customer demo — for customer, valid for 60 days for at Partner license — license for demo and testing purpose 	or unlimited time for the purchased number of users for an existing installation ny number of users valid for 1 year, for multiple users	
Partner *	Requester name *	Email address *
Customer name *	Country *	City *
Installation number *	System number *	Hardware Key *
1st requested Add-on *		
None		
Additional comments		

You have to fill in Partner name, e-mail address and customer name accordingly, then please gather all data about your SAP system: Installation Number, System Number, Hardware Key. These can be found in SAP Business One in the Help \rightarrow About SAP Business One menu.

About SAP Business	One	
SAP Busine	255	
Version: SAP Business C	0090060753	
System Number	00000000312686061	
HW Key:	N2095302820	
Application ID	0)
		SAP
Copyright © 2002-2016	SAP SE. All rights reserved.	ок

You can copy the numbers if you right click on the fields, and then you can paste them into the appropriate fields on the web page. Please note: all of them are needed for the license. Then you must set the add-on name, the license type and the requested quantity for the license. Note: you can request a license for 10 different add-ons at once. If you need more than that number, you must fill in two request forms. You must choose the following licenses for the following add-ons:

Produmex Add-on name
Produmex Manufacturing Professional* (formerly BX Core)
Produmex Manufacturing Limited* (formerly BX MTO)
Produmex PTM (formerly BX PTM)
Produmex PDC (formerly BX PDC)
Produmex Scan (formerly BX Mobile WH)
Produmex Operator (formerly BX Mobile Worker)

*For more information regarding the differences between the Produmex Manufacturing Professional and the Produmex Manufacturing Limited license, please see the License Comparison Chart.

The Requested Add-on type should always be Production if you request the license for a customer in a working environment. If you are a partner and need a license for presentation versions then you have to request a Demo for Presentation type license, which will be valid for one year. If you want to request a license for a customer so that he can try our add-ons, you have to request a Demo for Customer license, which will be valid for one month.

Please note: Production licenses have no expiration date, but they are always billed to the customer/partner.

If you have filled out your license request form, you have to click on Submit to send it. If the license was successfully sent. You will receive the Produmex license in an e-mail within 24 hours with a summary page showing the details of the licenses you requested.

Please note: production licenses take some days to arrive. Demo licenses are sent right away to the requester.

Requesting License for Produmex Service Broker

Produmex Service Broker has similar licensing model to SAP Business One, but instead of SAP users, licenses can be assigned to either:

- Employees
- Terminals (client computers)

Employee licenses can be assigned to specific employees who can use then the software from any computers. Terminal licenses can be assigned to computers which can be used then by any user.

Importing and Assigning Produmex Licenses

After you have received your Produmex license in an email as a .zip attachment, save it in a directory and extract it. Then start SAP Business One and the add-on. If the add-on requires a license, during the start up, you will receive a message that no licenses are assigned:

System Message	×
Warning: there are no active Produmex licenses assigned to any user! Please use the Produmex License Administration form to import and assign licenses.	1
ок	

To import and assign licenses you have to open the Produmex License Administration form:

- Tools> Produmex %add-on% > Produmex License Administration
- Administration module > Add-Ons > Produmex %add-on% > Produmex License Administration

where %add-on% is the name of your add-on. This form looks and works similarly to the SAP License Administration form.

In case of no add-ons bought, this option is replaced by the Produmex Control Panel standalone addon, which looks and works the exact same way as License Administration. Install the Control Panel, run it from the Add-on Manager, then open the form via Tools > Produmex Control Panel > Licensing.

Allocation	Employees	Terminals	Components		
Users		Descrip	tion	Allocated	Number Left
AlertSvc					
B1i					
manager					
Support					
			_		

Click on the 'Import License File...' button and browse the license file(s). The imported license files will be added to the right grid. To see the license details, go to the 'Components' tab. On this tab every imported license is listed. Select a license to see its details.

Please note: After the license file is imported, the system will save it. In order to remove a license file, select it on the left grid on the 'Components' tab then click on the 'Delete License' button.

	0	pen			×
€ ∋ - ↑ [📙 → This PC → Local Disk (C:) → Install → Proc	łumex → Licenses	♥ 🖒 Search	ВХ	Q
Organize 🔻 🛛 N	lew folder			H 🕶 🔲	0
🔆 Favorites	Name	Date modified	Туре	Size	
	BXMCQC1-00000000312686061-2016081	8/18/2016 4:08 PM	Text Document	1 KB	
🍓 Homegroup	BXMOB901-00000000312686061-201608	8/18/2016 4:08 PM	Text Document	1 KB	
	BXMTOBAS-00000000312686061-201608	8/18/2016 4:08 PM	Text Document	1 KB	
👰 This PC	BXMW001-00000000312686061-2016081	8/18/2016 4:08 PM	Text Document	1 KB	
	BXPPSBAS-00000000312686061-2016081	8/18/2016 4:08 PM	Text Document	1 KB	
📬 Network	BXTCPDC1-00000000312686061-201608	8/18/2016 4:08 PM	Text Document	1 KB	
	BXTCQC1-00000000312686061-2016081	8/18/2016 4:08 PM	Text Document	1 KB	
	BXTCTM01-00000000312686061-201608	8/18/2016 4:08 PM	Text Document	1 KB	
	File name:				~
			0	pen Canc	el

License types in Produmex

There are three kinds of licenses in Produmex:

- Add-on license: The add-on license can be allocated for a user on the 'Allocations' tab. *Please note: In the case of a control panel add-on no add-on license is needed.*
- Employee license: In the case of mobile applications the license can be assigned to an employee or a terminal. Allocate the license on the 'Employees' tab.
- Terminal license: To allocate the license for a terminal, go to the 'Terminal' tab.

1. Add-on license

To allocate the license for a user, select the user on the left grid on the 'Allocations' tab and assign the license to them by ticking the 'Allocated' checkbox on the right grid.

Allocation	Employees	1	Ferminals	Compo	nents				
Users			Descrip	otion			Allocated	Number Left	
AlertSvc			Produr	nex Manufac	turing Profes	sional	~		2
B1i									
manager									
Support									
Workflow									
		•							

Click on the 'Update' button and restart the add-on.

Please note: You can import any license to any Produmex add-on in the Produmex License Administration form (for example you can import and assign your Produmex Scan license in the license administration form of Produmex Manufacturing), but the license is only valid in one company database, so if you have a productive and a demo system, you have to import the Produmex licenses in both of them.

2. Employee license

To assign a license to an employee, click on the 'Employees' tab. Select the employee on the left grid then check the 'Allocated' checkbox on the right grid. In the 'Number Left' column the number of the available licenses is displayed.

3. Terminal license

3.1. Add terminal license

In order to add license to a terminal it has to be registered in the add-on. A terminal can be registered with the following:

- automatically assigned device GUID
- IP Address (Please note: Using the IP address for registering the terminal is only recommended in the case of a static IP address)

3.1.1. Register the terminal with the device GUID automatically

To automatically register the terminal and assign a license for it, try to log in the application on the given terminal.

If the following verifies:

- The user/terminal currently has no Produmex license assigned
- There is a valid Produmex license installed
- There is at least one free Produmex terminal license that can be allocated for the new terminal

then the system will automatically record the terminal to the @BXPLICTER table and allocate a Produmex license to it when the user tries to log in. If any of the conditions is not verified, then no new row will be added to the @BXPLICTER table, and no license will be automatically assigned. A system message will open. Press 'Ok' then repeat the login.



When registering the terminal with the method described above, the hardware GUID will be added to the BXPLICTER table.

Lic	enseTerm	inals						X
#	Code	Name	Comment	IP	Address	Last	Modif.	7
1	001	001	Automatically added	l on 2016-10-0 fe8	80::e9a7:437b:be6d:36d	ld%3		-
2								
_	_							
								-
_								
_								-
								-
	•		1				Þ	
	ОК	Cancel						1

3.1.2. Register the terminal with the IP address

First register the terminal on the License Terminals user table. Open the table via: Tools > User – Defined Windows > BXPLICTER – LicenseTerminals

Je	Window Help		•
ois	<u>Mindow H</u> eip		BXPCRCSTS - CalcResStructCostSchema
2	<u>L</u> ayout Designer		BXPCRESLN - CalcResLines
Ì	Scheduled Report Overview		BXPCRESST - CalcResStructure
	Pervasive Analytics		BXPCRSCTY - CalcResStructCostType
	Excel Report and Interactive Analysis Designer		BXPCTRLPREFS - ControlPreferences
	Preview External Crystal Reports File		BXPCUSTFD - CustomizationFields
0	<u>F</u> orm Settings	Ctrl+Shift+S	BXPCUSTLOC - Custom Localizations
	E <u>d</u> it Form UI		BXPCUSTSORTDEF - CustSortingMethodDefinitio
	<u>C</u> hange Log		BXPEMPFEAT - EmployeeFeatures
	<u>A</u> ccess Log		BXPEMPRES - EmpResource
	Searc <u>h</u>	Ctrl+F1	BXPFORMPREFS - FormPreferences
	Queries	1	BXPFPDAILYPLAN - FPDailyPlans
	SAP <u>B</u> usiness One Studio Suite	J	BXPFPDPCHANGE - FPDailyPlanChangeReasons
	My Menu	1	BXPFPDPCLOG - FPDailyPlanChangeLog
	My Shortcuts		BXPFRECIPE - Recipe
	User-Defined Values	Shift+F2	BXPFRECLINE - RecipeLines
	User-Defined Windows		BXPITSUBGR - ItemSubGroups
	Cockpit		BXPLICFEAT - LicensingService
	Customization Tools		BXPLICIP - LicenseableIPs
	Default Forms		BXPLICSET - LicenseSets
	Live Collaboration		BXPLICTER - LicenseTerminals
	Send to Conversation		BXPLOG - Log
	Produmex Manufacturing		BXPMANUFOPER - ManufacturingOperation
	Produttex Manufacturing		BXPMANUFOPERPARAM - ManufOperParameters

Fill the Code, Name and the IP Address. IP Address needs to be the address of the device Produmex Service Broker establishes the connection to.

ł	Code	Name	Comment	IP Address	Last Modif.	7
	001	001		192.168.103.139.		-
	_					
	4					•

To allocate a license for a terminal, open the Produmex License Administration form: Administration > Add-on > Produmex %add-on% > Produmex License Administration where %add-on% is the name of you add-on.

On the right grid of the Terminals tab every terminal license is listed. On the 'Number Left' column the number of the available licenses are displayed.

On the left grid select the terminal code. Every terminal defined on the License Terminals table is listed. To allocate a license for the terminal, tick the 'Allocated' box on the line of the corresponding license.

Click on the 'Update' button to save the changes. To apply the changes, restart the Produmex Service Broker.

liocation	Employees	renninais	Components		
Terminal Code	Terminal	Descript	tion	Allocated	Number Left
001	001	Produm	ex Scan (terminal)	v	0
					2
					2
					2
A					
	•				

3.2. Modify terminal license

3.2.1. Update the list of available terminals

First check the available terminals on the License Terminals table. On this table terminals can be added, modified or removed. See: *3.1.2. Register the terminal with the IP address for more information about registering terminals manually.* To register a new terminal automatically, make sure that there is at least one available terminal license. Terminal licenses can be seen on the Terminal tab of Produmex License Administration form. Then follow as described in 1.1. Register the terminal with the device GUID automatically. Make sure that you log in with a user who does not have an employee license.

3.2.2. Modify terminal licenses

On the Produmex License Administration form terminal licenses can be modified.

On the right grid of the Terminals tab every terminal license is listed. On the 'Number Left' column the number of the available licenses are displayed. It is not possible to allocate more license than the available licenses.

On the left grid select the terminal code. Every terminal defined on the License Terminals table is listed. To allocate a license for the terminal, tick the 'Allocated' box on the line of the corresponding license. To retract a license, untick the box.

Last update:	
2017/06/02	implementation:scan:completeinstallguide http://wiki.produmex.name/doku.php?id=implementation:scan:completeinstallguide
12:48	

Allocation	Employees	Terminals Components		
Terminal Code	Terminal	Description	Allocated	Number Left
001	001	Produmex Scan (terminal)		0
				2
				2
				2
			_	
			_	
4				

Click on the 'Update' button and restart the Produmex Service Broker in order to apply manual license modifications.

Installation Guide

This document describes the functionality and handling of Produmex Scan. Produmex Scan is a stock management solution for Windows Mobile devices and SAP Business One.

It is based on the standard bin location management of SAP and extends it with support for Windows Mobile devices with barcode scanners with which the users can handle stock movements (goods receipt, delivery and inventory) easily.

1. Technical Background

Produmex Scan comprises of 3 parts:

- The Produmex Scan Add-on
- The Service Broker and the Produmex Scan module
- The Produmex Scan client application



The add-on must be installed in SAP Business One. It is used mainly for set-up and administrative purposes; it does not need to be running for the mobile devices to work.

The Service Broker handles the requests that come from the mobile application and processes them using the SAP DI API (for example based on the requests from the mobile device it creates a goods receipt PO or a delivery).

The client application is used to enter the data for the stock movements which is then sent to the Service Broker. The client application can run natively on the mobile device, or on the server and be accessed through remote desktop, depending on the network latency constraints or use case as described below.

Native client

The traditional and recommended way is to install Produmex Scan on the device directly where it can run as a native client. The Produmex Scan client application connects to the Service Broker by using HTTP/TCP protocols.

This connection method is recommended for on premise use or on cloud environments where the connection between the client and the server is fast and optimized.

Layouts of possible scenarios:



Last update: 2017/06/02 implementation:scan:completeinstallguide http://wiki.produmex.name/doku.php?id=implementation:scan:completeinstallguide 12:48



Remote desktop

On cloud environments where the network connection is slower, the traditional connection method might cause latency due the number of messages sent by the Produmex Scan client. In order to improve the communication speed, it is recommended to run the application on a remote desktop. This way the client and the service broker communicates within the same network therefore the long distance traffic decreases.

In this case the client application and the Service Broker run on the same server. The application can be reached through a remote desktop application from the handheld device.

The remote desktop connection method is only recommended in cloud environments where latency issues occur due the slow connection between the client and the server.



For more information about how to set up Remote Desktop Connection please see: Setup Remote Desktop Connection. When setting up the remote desktop connection, enable the 'Full screen' and the 'Fit remote desktop to screen' display options.

When using the remote desktop connection method we	Client configuration parameters
recommend the following display settings:	General Advanced Diagnostics
	Don't Use Built-in OS Buttons
	Customization Assist Mode
	Win. Layout Desktop Fullscreen 💌
 Set the Windows layout to 'Desktop fullscreen' 	

2. Installing Produmex Scan

To make the system work you have to do the following:

- Install the Produmex Scan add-on in your SAP company database and run the DBSetup.
- Install the Service Broker + Produmex Scan server component on your SAP server and configure it.
- Install the Produmex Scan application on the mobile devices.

2.1. Produmex Scan Add-on

Installing the Produmex Scan Add-on happens the same way as you would install any other add-ons in SAP. You have to open Administration>Add-Ons>Add-On Administration and click on button Register Add-On.

Click on the button beside the Registration Data File and browse the file BxMobile WarehouseSetup.ard. SAP will fill out the path to the exe file automatically. Turn on Install as Part of Registration and click on OK.

Add-on Registration	
Installation Information Registration Data File Installation Package	C:\Install\ProdumexScan\BXMobileWH9Setup_17, C:\Install\ProdumexScan\BXMobileWH9Setup_17,
Silent Installation Information Upgrade Package Installation Params Package	
Upgrade Params Package Upgrade Params Package	
OK Cancel	

First SAP will register the add-on and then it will start the installation wizard. You have to go through all pages of the wizard and click on the next button. On the first page you have to accept the agreement, too.

¥:	Setup - Produmex Scan Add-On for SAP Business One 🦷 🛛		×			
	License Agreement Please read the following important information before continuing.		Ð			
	Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.					
	END USER LICENSE AGREEMENT	^				
	This End User License Agreement (this "EULA"), is by and between Produmex byba, with offices located at Kasteelhoekstraat 1, B-1820 Perk, ("Licensor") and the purchaser/user of the software ("Licensee") (each a "Party" and collectively, the "Parties").					
	WHEREAS Licensee has entered into an agreement with a Produmex Authorized Reseller for the purchase of certain software licensed by Licensor and/or services relating to such software (the "Agreement"); and	*				
	• I accept the agreement					
	○ I do not accept the agreement					
ww	w.produmex.com < Back Next > C	Cano	el			

After the installation of the add-on SAP will set the add-on to Disabled in the Add-on Administration form. You have to choose when the add-on should start. For the first run it is recommended to set it to manual. Make sure the Active checkbox is turned on otherwise the add-on won't show up in the Add-on Manager.

-bb.	On Administrat	ion <u>U</u> se	r Preferenc	es	1									- 11
Availa	able Add-Ons					Compa	ny-Assigned Add-(Ons						
ID	Add-On Name	Version	Platform	7		Order	Add-On Name	Version	Default Group	Force Install	Active	Platform	7	
1	Screen Painter	920.140.00.	x86	-		2	Produmex Scan	17.05.220	Manual 🔹 🔻		✓	x86	-	
3	Datev	920.140.00.	×86											
4	EFM Format Definition	920.140.00.	×86											
7	Outlook_Integration	920.140.00.	×86											
					∎									1
														-
					₽									4
														-
Reg	ister Add-On Ren	n <u>o</u> ve Add-C	n			<u>S</u> end	Notification to Use	ens						
0	K Cancel								Ma	anage Extension	s for Lia	htweight D	eploy	vme

After that you have to start Administration>Add-Ons>Add-On Manager to be able to start the addon. When you first start the add-on it will create its own database tables and user defined fields. This process is called DBSetup. The add-on will display a message about it when you start it:

System Message	×
This database is too old, it requires upgrade for Produmex Scan Do you want to setup the database now?	?
Yes No	

If you click on Yes, the DBSetup will start, if you click on No, the add-on will stop and you will get the same message next time you start it. To be able to run the DBSetup, first you have to create a backup of the company database. The add-on will check if a backup was created in the last one hour. If not, you will get a message like this:

System Message	×
Produmex Scan would need to run a db setup, but before you need to create a backup for security reasons. Please do the following: CREATE A BACKUP of your company datatbase and then restart the Add-On.	

The add-on will exit. Note that a differential backup will be done. If you have the backup and click on Yes on the system message screen about the DBSetup, you will have to enter the user and password data for the SQL connection:

8	DB Connection Setup	x
Usemame		
sa		
Password		
	OK Cancel	

After clicking OK a progress bar will appear and it will go through the DBSetup process. When it has finished you will see an SAP message if you want to add the user defined fields. Here click on yes:



You will see a message like this:

Last update: 2017/06/02 implementation:scan:completeinstallguide http://wiki.produmex.name/doku.php?id=implementation:scan:completeinstallguide 12:48



When the add-on has stopped, SAP will show the following message:



Here you have to choose Continue working without this Add-on and restart SAP. Now you can start using the add-on in SAP.

To be able to run the DBSetup the SAP user must be superuser.

2.2. Service Broker, Service Manager and the Produmex Scan server module

Install Produmex Service Broker

The Service Broker establishes the connection between the SAP company database and the application on the mobile device. It queries the data from the SAP database and sends it to the mobile application. It creates the SAP documents based on the requests from the mobile devices. The SAP documents are created with SAP DI API 32bit version, so it must be installed on the server where the Service Broker runs.

The Service Broker can run from a command window or as a service. It creates threads for the different requests which are independent from each other so if one thread has a problem it can be closed and the others are not influenced by it.

The service broker creates its log files at C:\ProgramData\BX\BX Service Broker\Logs and needs .NET

4.0 to run (it is in the installer). The ProgramData folder is hidden. You have to either enable show hidden folders and files in windows settings or you have to enter it directly to the address bar in windows explorer:

📔 💽 🚺 =	BX Sen	vice Broker		- 🗆 🗙
File Home Share V	ew			v 🕐
🔄 🌛 🝷 ↑ 퉱 C:\Program	Data\BX\BX Service Broker	v ¢	Search BX Service B	roker 🔎
🔆 Favorites	Name	Date modified	Туре	Size
	퉬 Logs	12/19/2016 12:23	File folder	
🤣 Homegroup	🌗 Modules	12/19/2016 12:23	File folder	
I툎 This PC 역및 Network				
2 items 1 item selected				:==

If the Service Broker doesn't run, the communication between the clients and the SAP company database is not possible.

Install the service broker on the server which has access to the company database. The installation file is an exe file with a name like this one: ProdumexServiceBroker.Setup.exe.

After launching the .exe file, the End User Licence Agreement will open up. Produmex Service Broker can only be installed if the License Agreement is accepted.

R	Produmex ServiceBroker Package Setup 🛛 – 🗖 🗙						
Produmex ServiceBroker Package							
	END USER LICENSE AGREEMENT						
This End between 1, B-182 software <u>"Parties</u> "	This End User License Agreement (this "EULA"), is by and between Produmex bvba, with offices located at Kasteelhoekstraat 1, B-1820 Perk, ("Licensor") and the purchaser/user of the software ("Licensee") (each a "Party" and collectively, the "Parties")						
	I agree to the license terms and conditions Options Install Close						

When you start the installation, the Produmex Service Broker installer will request information based on the system and will set up the service based on the information you enter.

The default port for the communication between the service broker and the clients is 50231. The installer will open the firewall for this port automatically, but if you change the port, you will have to change the firewall settings manually.

The installer will first ask the user who will be assigned to the service broker service in windows. This must be a user who has rights to write the event log and the program data directory where the logs are created. The service broker service will also make a connection to the SAP company database, the user must have rights for that as well.

R Produr	mex Service Broker Config		- 🗆	×
Service Broker - Service sett Specify which system user and por	ings rt should the service run with		ł	
Service run as user	LocalSystem	¥		
Password for user				
Service port	50231			
Service state	Stopped			
Start mode	Auto	~		
Exit if any module loading fails	\checkmark			
	< Back Next >		Cano	el

Specify a password for the Service Broker Administration web page.

R	Produmex Service Broker Config – 🗖 🗙
Service Broker - A Specify a password for	dmin Page or the Service Broker Administration web page
Web password	•••••
	< Back Next > Cancel

You can also enter the port on which the communication goes; the default is 50231. You can also set up the start mode of the service. The recommended is Auto or Auto (delayed start). You have to set up the SQL server connection in the next window.

If you have a named instance, you have to enter the name of the server and the named instance as well (for example SERVER\NAMEDINSTANCE).

Produmex Service Broker Config – 🗆 🗙					
Service Broker - Database connection Please provide database (SQL) connection parameters					
Database type	MSSQL 2012 V				
Database Server	PMX_BUDTOSH2				
Database Port	1433				
SQL username	sa				
SQL password	•••••				
Domain user name (SAP B1 Cloud only)					
Domain password (SAP B1 Cloud only)					
	< Back Next > Cancel				

After that you have to set up the company database. You can only set up one company here, if you have more databases, you can add the others in the Produmex Service Manager after installation (see at Produmex Service Manager).

E	Produmex Service Broker Config	- 🗆 🗙
Service Broker - De Specify the default SA	fault SAP Company ^o Company database	
Company	TEST_SCAN - TEST_SCAN	v
SAP username	manager	
SAP password	•••••	
SAP language	In_English	Y
	< Back Next >	Cancel

You should enter an SAP user here which has licenses to create inventory bookings for materials. At the end of the installation you will see a summary screen about you settings:

E	Produmex Service Broker Config -	
Service Broker - Sun Verify requested setting	imary s, they will be saved when you press finish	
Server: PMX_BUDTOS SQL user: sa Database: TEST_SCAN SAP user: manager	H2 N	
	< Back Finish	Cancel

Click 'Finish' to end the installation.

Install Server module

The Produmex Service Broker can work together with different Produmex add-ons. To do it, it uses the dlls of that add-on. You need to install these dlls with the server installer which has a name like this: ProdumexADD-ON NAME_ServerSetup_version nbr_SBO Version_Database server type.32/64 bit

installers.zip.

The add-on and the server dlls must be for the same version. If you use different versions, error messages may appear. You simply have to start the installer and it will automatically copy the dlls and then restart the service broker service. You can check the installed modules in the Produmex Service Manager if you select the Service Broker and click on the 'Configure' button. Go to the 'Produmex Service Broker' tab.

Produmex Service Manager

The Produmex Service Manager is a standalone program that can handle the Produmex Service Broker and other Produmex services. Service parameters, connection data to the database, and the connection data to the SAP Company can also be modified on the Service Manager.

It is automatically installed by the Produmex Service Broker installer. The Service Broker will automatically appear in the Produmex Service Manager, together with all other installed Produmex services that are supported by the Service Manager.

Setup/Modify Connection data to the SAP company

Click on the 'Setup Companies' button.

On the opening window you have to enter the connection data to your SAP company database. At 'Server' enter the name or IP address of the server (if you have connection problems when using the name of the server, try to use the IP address instead).

	Setup Compa	nies	_ 🗆 🛛
1+2	\mathbf{X}		
•	NOBACKUP	Server:	PMX_BUDTOSH2
-	MWDemoUS [manager]	Port	1433
	TEST_SCAN TEST_SCAN [manager]	MSSQL Version	MSSQL 2012 V
		Language	In_English
<u> </u>	TEST_WMSMF [manager]	SQL User	sa
		SQL Password	•••••
		(SAP B1 Cloud only)	
		Domain password (SAP B1 Cloud only)	
			Test DB Connection
OK	Cancel	_	.:

At 'Port' you have to enter the port on which the application can connect to the SQL Server. It is usually 1433, however, if you have a named instance in the SQL server, then you have to check the actual port in the SQL Server Configuration Manager. You have to select your SQL Server instance then right click TCP/IP on the right side and click on Properties. In the small window go to the bottom and check the port number:

S S	ql Server Configurat	ion Manager	
File Action View Help			
🗢 🧼 🖄 🗒 🗟 👔			
SQL Server Configuration Manager (Local)	Protocol Name	Status Enabled	
SQL Server Network Configuration (32bit) SQL Native Client 11.0 Configuration (32t) SQL Server Network Configuration	TCP/IP	Disabled Enabled	
		TCP/IP Properties	? ×
-	Protocol IP Addres	ses	
	TCP Dynamic Pe	1433	^
		1455	
	Active	Yes	
	IP Address	N0 169 254 54 221	
	TCP Dynamic P	orts	
	TCP Port	1433	
	□ Ibð		
	Active	Yes	
	IR Address	1	
	TCP Dynamic P	orts	
	TCP Port	1433	
	D IPAII		
	TCP Dynamic P	orts	
	TCP Port	1433	~
	Active Indicates whether	the selected IP Address is active.	
		OK Cancel Apply	Help

Please note: in this example there are no instances, so the port is the default 1433.

If you have the port number, you have to choose MS SQL version number and enter the SQL Server user name and password. If you click on Test DB Connection, Service Manager will try to connect to the SQL server with the given data. If everything is ok, you will get a message: Database connection test – success!

		Server	
0	NOBACKUP MWDemoUS [manager]	Port	1433
◙	TEST_SCAN	MSSQL Version	MSSQL 2012
	TEST_SCAR [manager]	Language	In_English
V	TEST_WMSMF [manager]	SQL User	sa
		SQL Password	•••••
	×	Domain user name (SAP B1 Cloud only)	
		Domain password (SAP B1 Cloud only)	
	Database connection test - success!		Test DB Connection
	ОК		

Add new database

Click on the 'Setup Companies' button. On the opening Setup Companies' screen click on the + button to add a new database.

On the 'Database Setup' window select the Database then enter an SBO User and its password to create the connection to the database. SAP employees are used for log in the mobile device. Transactions initiated by the employees will be posted by the SAP user defined for the Service Broker.

The SBO user must have the authorizations to create stock related bookings in SAP Business One (Delivery, Goods Receipt PO, Stock Transfer, etc.) The SAP user also need at least an SAP Indirect Access license type.

	Database Setup 🗖 🗖	×
Database	TEST_WMSMF - TEST_WMSMF	~
SBO User	manager	
SBO Password	•••••	
Save	Cancel	

Click on Save then close the window. You can close now Setup Companies and go back to the Service Manager main screen.

You can add several databases but you can make a connection only to one database at the same time.

Now you have to assign your companies to the Produmex Service Broker and other Produmex services. To do that click on the Companies button in the line of the service.

6	Produmex Service Manager	- 🗆 ×
File Service Help	Select Companies – – ×	Setup Companies
	OK Cancel .:	

Now you have to assign your companies to the Produmex Service Broker and other Produmex services. To do that click on the Companies button in the line of the service.

Configuring Produmex Service Broker

The Produmex Service Broker can work together with different Produmex add-ons, therefore in the Service Manager you have to configure which add-on you want to use. To do that, click on the Configure button or select it from the line of the Service Broker.

F _		Produmex Service	Manager	- • ×
File Service Help File Service I Help Produmex ServiceBrod TEST_WMSMF	General Produ Run As User Password Start Mode	Produmex Service Produm Imex Service Broker LocalSystem Auto	Manager nexServiceBro	
	ОК	Cancel		Kill time (seconds) 30 Modules to load (comma s Port to listen on 50231 Record comm.data details false Server discovery enable? SSL Port to listen on 50232 Concurrent tasks (piece)[0-not limited] Concurrent tasks (piece)[0-not limited]

If you set the '*Debug writeline log*' parameter to true, it will write a log about each command the Service Broker processes. Only set it to true, if Produmex support asks you to do that.

'*Kill on memory usage*' will close service broker if the amount of memory (in Mbytes) usage is reached (the setting doesn't work yet). Note: if you use this function, you have to enable windows to restart the service if there is a failure (you can set it at Properties of a service in services.msc on tab Recovery).

'*Kill time*' means that if a thread doesn't respond to a request within this time limit, it will be killed. The setting depends on your server. If you have a quick server, set it to a small number, if you have a slow server, set it higher. Default is 10 seconds.

'Modules to load' is the module of the add-on to which the service broker connects.

- If you are using Produmex Manufacturing, you should set it to BXPPSMobilePDCWebAPI.dll
- If you are using Produmex Scan, you should set it to BXMobile Warehouse WebAPI.dll
- If you are using Produmex Operator, you should set it to BXMWWebAPI.dll

Please note: It is automatically done by the module installer for you, so you only have to set this manually in specific cases.

At the '*Port to listen on*' you can set which port is used by the service broker to communicate with the clients. The default is 50231. Make sure that the port you set here is not blocked by any firewalls or antivirus software.

The '*Server Discovery Enable*' turns on the feature that the client can look up the running service broker server automatically. It makes setting up the clients easier.

You have to assign an administrator user to the service in the windows service manager, otherwise the server broker cannot connect to SAP and cannot write to its log files. If the service broker stops right after starting it, and in the log file you have access denied errors, then the cause is that you haven't assigned the administrator user to the service.

- http://wiki.produmex.name/

On the Produmex Service Broker tab you can see the loaded modules, and you can remove/install new modules if needed:

6	Produmex Service Manager	- 🗆 ×	
File Service Help Produmex ServiceBrod TEST_WMSMF	ProdumexServiceBroker service co General Produmex Service Broker + X & BXMobileWH9WebAPI 17.05.22000.18920 BxServiceBrokerAdmin.WebAPI.dll 17.05.22000.18920 BxServiceBroker is running. OK Cancel	onfiguration –	Admin Page

If you see OK beside the module name, it means it could be loaded successfully. If a problem arises, you will see error beside the module name.

Start Produmex Service Broker

After you have set all settings and installed the server module, you can start the Service Broker service in the Service Manager by selecting first the service then clicking on the Start button. If you want to stop a service, just click on the Stop button.

You can also stop or start the services from windows service manager, but you cannot change the Produmex settings there. It is recommended that you set the service to Automatic start and that you set the recovery options to restart at Recovery in service properties for the service:

Q.		Services	-	- 🗆	×
File Action View	v Help				
🗢 া 🕅 🗐	Q 🗟 🛛 🖬 🕨 🔳 🕪				
🤹 Services (Local)	Services (Local)				
	Produmex Service Broker	Name	*		^
	Stop the service	Rodumex Service Brok	(er		
	Restart the service	Produmex Service Brok	er Properties (Local Computer)		
	Description:	General Log On Recovery	Dependencies		
	Produmex Service Broker	Select the computer's respons actions.	se if this service fails. <u>Help me set up recovery</u>		
		First failure:	Restart the Service 🗸		
		Second failure:	Restart the Service 🗸		
		Subsequent failures:	Restart the Service 🗸 🗸		
		Reset fail count after:	1 days		
		Restart service after:	1 minutes		
		Enable actions for stops w	ith errors. Restart Computer Options		
		Run program			
		Program:			
			Browse		
		Command line parameters:			
		Append fail count to en	d of command line (/fail=%1%)		
			OK Cancel Apply		>
	Extended Standard				

If you want to start the service broker from the command window, you can start it with "C:\Program Files (x86)\BX Software\ServiceBroker\ServiceBroker.Console.exe" (or Service Broker (Console) program in the windows start menu) and you will see a window like this:

Last update: 2017/06/02 implementation:scan:completeinstallguide http://wiki.produmex.name/doku.php?id=implementation:scan:completeinstallguide 12:48

C:\Program Files (x86)\BX Software\ServiceBroker\BxServiceBroker.Console.exe -	
at BXPFSBLLMOQUIES.BXFFSBLLMOQUIE.FDCBOOKINGIADIEQUEFYFFOCESSStateErForKetFy ByDBConnectionParams session. DateTime maximumDateTime) in c:\ BUILD\bynns-build	1 ^
\BXPPS\BxPPSBLLModules\BxPPS_PDCBLLModule.cs:line 2126	Ĩ.
15:27.12 Starting listen	
server.OpenAsync().Wait()	
15:27.12 Assembly Loaded: System.Net.Http	
Defore Inread Start	
15:27 13 Listening on http://localhost:50231/	
15:27.13 Started discovery service	
15:27.13 Assembly loaded: BxServiceClientLib.WinForm	
15:27.13 Assembly loaded: Accessibility	
15:27.13 Assembly loaded: System.Messaging	
15:27.13 Hssembly Loaded: System.Xaml	
15-27.13 HSSEMDIY loaded: System.Runtime.DurableInstancing	
15:27.13 Assembly loaded: Interon SAPhohsCOM	
15:27.13 Assembly loaded: Antlr3.Runtime	
15:27.13 Assembly loaded: Interop.SAPbouiCOM	
15:27.13 Assembly loaded: Anonymously Hosted DynamicMethods Assembly	
15:27.13 Assembly loaded: System.Web	
15:27.13 Hssembly loaded: System.ComponentModel.DataAnnotations	
15:27.13 HSSEMDIY loaded: System.Ami.Ling Test Status: Rupping	
iest status. huming	\sim

The use of the command window is recommended for debugging purposes. In production environment the use of the service is more efficient.

2.3. Produmex Scan Client Application

In order to run the Produmex Scan client application on the mobile device you need the Microsoft .NET Compact 3.5 framework on all the mobile devices where the application will be used. If you have a server operating system (for example Microsoft Windows Server 2003), you have to install the windows desktop experience component of windows from Control Panel>Programs and Features>Turn Windows Features On or Off:

2017/08/25 19:10

29/32



C ₁	Add features required for Desktop Experience? You cannot instal Desktop Experience unless the required features are also installed.					
	Features:	Description				
	☐ Ink and Handwiting Services Ink Support	Init and Handwitting Services includes Ink Support and Handwitting Recognition.				
		Add Required Features Cancel				

Then you have to install the Windows Mobile Device Center 6.1 driver:

• 32 bit:

http://download.microsoft.com/download/7/3/5/735ec6ea-7607-4e56-a5f0-f7672443727e/drvupdate-x86.exe

64 bit: http://www.microsoft.com/en-US/download/details.aspx?id=3182

If it is not installed, you will get a message during installation that active sync is needed. You can download the 64 bit package from here:

http://download.microsoft.com/download/0/4/3/0432540e-2d1a-415d-9c9da9963e43503e/drvupdate-a md64.exe

For 32 bit systems with windows 8 or 8.1 it is enough to run windows update, download all updates and reboot the computer.

For windows 8 and 8.1 operating systems it can also be needed to install the Microsoft active sync component.

This step is not needed for the non-server operating systems.

Cradle the mobile device on your computer. Then run the Produmex Scan Application setup file contained in the ProdumexSCAN_ClientWM6Setup_version nbr._SBO version_Database server type.32/64 bit version.zip file on the host computer with administrator rights.

i	Produmex Scan	- 🗆 🗙	闄	Produmex Scan	- 🗆 ×
Welcome to the	e Produmex Scan Setup Wizard		Select Inst	tallation Folder	
The installer will guide yo	u through the steps required to install Produmex Scan or	n your computer.	The installer will in To install in this fo <u>F</u> older: C:\Program Fil	Istall Produmex Scan to the following folder. Ider, click "Next". To install to a different folder, ente les (x86)\Produmex\Produmex Scan\	r it below or click "Browse". Browse Disk Cost
WARNING: This comput Unauthorized duplication or criminal penalties, and	er program is protected by copyright law and internationa or distribution of this program, or any portion of it, may re will be prosecuted to the maximum extent possible unde	al treaties. usult in severe civil r the law.	Install Produme O Everyone ① Just me	x Scan for yourself, or for anyone who uses this com	puter:
	Cancel < Back	Next >		Cancel	Back Next >

Follow the instructions of the installer. Choose the destination folder.

The installer will set up on the cradled, connected mobile device as well.

If for some reason the installation on the mobile device is interrupted, it can be installed directly on the mobile device, too. Copy ProdumexSCAN_ClientWM6Setup_version nbr._SBO version.cab from c:\Windows\WindowsMobile\BXMobileWarehouse\ to your mobile with Windows Mobile Device Center, and then run it in the mobile device.



You can find the configuration form and the application among the installed programs (under the start menu).



When started for the first time, it will open the configuration window. When you already configured it, it will open the login screen instead. If you want to start the configuration again, you have to start "Configure Produmex Scan" on the mobile device. For more information about client configurations please see: Configure Produmex Scan

With the installer new shortcuts will also be added to the start menu under the Produmex folder, to run Produmex Scan and Configure Produmex Scan in desktop mode. This helps you simulate the mobile device client in an easy way, without needing to set up an emulated mobile environment.

From: http://wiki.produmex.name/ -

Permanent link: http://wiki.produmex.name/doku.php?id=implementation:scan:completeinstallguide

Last update: 2017/06/02 12:48