Produmex Scan - Complete Installation Guide

Licensing System

Starting from version 18.3 the license module uses the Boyum IT portal for the licenses, therefore, when upgrading from a version older than 18.3 to version 18.3 or higher, please make sure that you have a license on the Boyum IT Portal. Consequently, the old license files should not be used any more.

For the Produmex Scan client application a terminal type license is needed. Since Produmex Scan devices have concurrent licensing, the number of required licenses depends on the number of devices that are used concurrently.

For the Produmex Scan add-on no extra SBO license is needed. The required SBO license depends on the SBO function the user will use to prepare documents for the Produmex application in the office environment, e.g. to create pick lists. Please refer to the SAP Business One official licensing documentation for more information on which SBO license type is required for your installation.

1. Boyum IT Portal - Online and offline solutions

1.1 Online solution

When you purchase the Produmex Scan add-on on the Boyum Portal, your license is generated automatically. It means that if you have active Internet connection, your license is automatically downloaded, therefore, no action is needed from your side. Please continue with section *2. Allocating Licenses*.

Please note that it is important to allow outbound access to our license servers (.boyum-it.com (port 80)) in your firewall configuration.*

1.2 Offline solution

In case you are not connected automatically to the license system or you have no active internet connection, visit the offline license generator of Boyum IT Portal and get your license data by proceeding as follows.

On the appearing Get Manual License screen

1. fill in the Installation Number field,

2. select Produmex Scan - Device license in the drop-down Product list,

3. click Submit.

(For information on to how find your installation number click here.)

boyum	
Boyum Portal	
Get Manua Welcome to the offline li To get your license data	I License icense generator for the Boyum IT Solutions products. I, please provide your installation no. choose the product you want to retrieve your license for and click submit
Installation Number	0020123456_00000000123456789 Depending on the license registration you have to enter either the installation number from SAP B1 or the installation number and the system number from SAP B1 delimited
Product	by an underscore (). Installation Number (10 digits) and System Number (18 digits) are available from within SAP via the Help About SAP Business One menu item. Right- click each field to copy the numbers as they are long and easy to enter incorrectly when done manually. Produmex Scan - Device license

The portal displays your license data as follows:

	1
Boyum Portal	
License Your license data are available below - for instructions on how to import them, please refer to the section further down this page.	
A1235YHfKfTG3Ns8fyFx2f+xJVb3uz02uTpw3EFT5j46zrvDMDmcAy7oNJduGU0ZpLlgw4EWON5dHRDjRmXNjI+pBapqfaFSbWK7fyVix1mVU0z6 J/z3fBxzdeXgsKK9oyimaoyWzfNCnhPC/9Yr0QV0HkbzNI7pv5UculAEi6vlShUKije0VMDkwucgMTElrk7JmWP8Vcb1OUz6J/z3fBxzXhnHh95BQotx zvPT8/h4cSCn23lZr4y9GhTcgbvbDW78/JHSyLC4la/pexYXXSZJ7gJltGVAXy8IFA9z55KToAdHEl4/5lkMjPon/Pd8HHNeGceH3kFCi1gEDTq+zXp K08L/1ivRBXQqKiKe8DCqXmtc+G9JxqUgvTUhp7PH6+wM+if893wcc14Zx4feQUKLZuz/1JjPyo3rSfDvuLXayqpTNCGZ8npUlnSDAybibg09FPnQ AtFtLAHZjb6w2vUUTD68OjnAjq26RiPcgkngOJkyooaLkbuBtIVKrlG4MYduuwSmQbDK76gLqqUZBpiiNLpHF/vFCBKB2Y2+sNr1FH4uIQqNT3NkP 7+Y4vhXqowNMr1lczAntxK+idq7pSmFfcilHYG30lk0WOzJ9zwpmUnp2OfqyUW4kCid+uoNujpajAzzwn5WGjjqq3T2+z17hSu86891j559GUZtZ77 WnAHZjb6w2vUUekYj3IJJ4DiXPeokjd0A6BnEomiAvVFzLLzH5zSqp+Le6Hhhnq3kqyvyu+SXxdVr0EqVXbnkE0EiVPyqx4Y2XBPC/9Yr0QV0Hkbz NI7pv5UculAEi6vlSjpGI9yCSeA4ny5QkLe3EYa84YceGTPKL856iOY20I944XIy4Z7Xr8atnPWBs4zUyns6EcUw+2vgmcSialC9UXMpvnK6pYQI19 U4mcWzCSTn9fZgH1JB2106Av+iokKu9L7OAAgETzPmIM1ByhAfSX0ZxKJogL1RcxcHroe/7qwf0fBICjYsxKwJ1cvIIJW4eIPGBNGfyEYJDxNdHU HPtDfPg4Sd2UteGncTi8Y163A7e/7wBixsdy3B2Y2+sNr1FEc3jy5DzZ+keWsIMXZwIUE/EcE5FRYffPQ7n1IHfiXYORi7NgHVtdi2t07nlo/GZ5sKKAA	^
5UXW866B0GdaG9of1Zi6oen1cww90oErLIrHve4WMiPOBuR91USyEbi2sEBLiZ58w8q8AET+immHEmvsqYEiCsHSKBQl5q3baiuznlecW/2qq22q	

4. Copy all the data.

5. Open the *Produmex License Administration* window in SAP BO via path: *Administration* > *Add-ons* > *Produmex Scan* > *Produmex License Administration*.

6. Click Manage Boyum License.

Produmex License Administratio	n	_ _ _ ×
Allocation	Components	
Description Produmex Scan - Device lice	Description Total Number Available Start Date Expiration Date Status	Produmex Scan - Device license 0 50 12/31/99 OK
	Users allocated	
	Tokens	BXMOBILEWH9-BASIC
OK Cancel	Manage Boyum License	

7. Paste your license data into the *License key* field and click OK.

At this point your license data is imported.

License Key	QxNcU6j98B5DJrO8+mIEdU/1ORTD6xZzHg62xTYOHxWI5+sVhBBLYew6OCUEH4QMZ5hbsX23Sf2qzQiD/yEe7dyN1iqylvxeERUd22K7F6 C/4m++06pnu/oTYLTtKB7WLn3D3Wo605reUwz5R +vw8q2DbRY/UMug84YceGTPKL856iOY20i942fQBFvE5Oh3sVrq96gRXNgE1KG12INTfw582dRhGcXm4rI21oNnChaMH6+BZIYEhMh9eoKL	^
	<pre>ind=rqvdigiantvCentryUsanovDefite</pre>	~
OK Cancel	Delete Boyum License	

Please note that once you buy additional users or upgrade to a newer version, you will need to re-import your offline license and restart your Produmex Service Broker to reflect the changes.

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2. Allocating Licenses

2.1. Terminal

Terminals have concurrent licensing meaning that licenses do not have to be assigned to a certain terminal, but instead the system will allow as many concurrent connections as the total number of terminals in the license.

Each time logging in on the terminal, the system will check whether there is a free license slot that can be allocated for the terminal.

- If there is a free license, the system will allocate it to the terminal.
- If there is no free license, an error message will be displayed.

After the logout, the system will deallocate the license from the terminal.

The current status of the license usage can be seen on a webpage of the Service Broker:

http://<IP>:<PORT>/api/admin_accesstokens

where the IP is the IP address and the PORT is the port number.

```
localhost:50231/api/admi ×
       C
            (i) localhost:50231/api/admin_accesstokens
<ArrayOfAccessTokenInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance"</pre>
 xmlns="http://schemas.datacontract.org/2004/07/BxServiceBroker.Admin.Data">
 <AccessTokenInfo>
     <Company>TEST_WMSMF</Company>
   ▼<ConnectionInfo>
     ▼<AccessTokenConnectionInfo>
        <AccessToken>MyAccessToken</AccessToken>
        <ClientAddress>MyAddress</ClientAddress>
        <ClientDeviceID>MyDeviceID</ClientDeviceID>
        <ClientDeviceName i:nil="true"/>
        <ClientProcessID>1:65684</ClientProcessID>
        <ClientProcessUser>user</ClientProcessUser>
       v<LastAccess xmlns:d5p1="http://schemas.datacontract.org/2004/07/System">
          <d5p1:DateTime>2017-12-13T10:10:23.7827567Z</d5p1:DateTime>
          <d5p1:OffsetMinutes>60</d5p1:OffsetMinutes>
        </LastAccess>
        <UserName>1</UserName>
      </AccessTokenConnectionInfo>
     </ConnectionInfo>
     <LicenseModule>PDC</LicenseModule>
     <MaxConcurrentConnections>2</MaxConcurrentConnections>
   </AccessTokenInfo>
```

When Produmex Service Broker has multiple assigned databases, each database can have as many connections as in the license. For example, if you have a license for 3 terminals, and the Service Broker has 4 assigned databases, each database can have 3 connections and the total number of the potential concurrent connections is 12.

3. Required licenses for a Produmex Scan installation

3.1. Produmex Service Broker

Only one SAP Indirect Access User license is required per installation. Produmex Service Broker will use this user to create documents in SAP Business One.

Since the Produmex Service Broker is assigned to one SBO user, all SBO documents created with Produmex Scan devices are created by the same user.

	Receipt PO)						-		▲ ▼ ▶ General		T
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2 📫	S1000	10		0.000				📫 10				
3 🔿	A1000	10		0.000				-> 10				
4 📫	A1000	15		0.000				-> 15				
5 📫	B1000	10		0.000				⇒ 10				
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Installation Guide

1. Prerequisites

The following database management systems are supported:

- MSSQL Server 2012, 2014, 2016
- SAP HANA SPS11 or higher

Requirements for the machine where the Produmex Service Broker runs:

- Windows 2008 R2/Windows 7 or higher
- Administrator rights
- Installation of .NET 4.0 framework or higher
- Installation of SAP DI API (32/64-bit) depending on Service Broker version (32/64-bit)
- HANA Client (On HANA environment only)
- Installation of SAP Business One. Make sure that Crystal Reports engine is installed as part of the SBO installation.
- SBO client needed with Crystal Reports engine in case of printing throught the Service Broker

Requirements for the machine where the Produmex add-on runs:

- Windows 2008 R2/Windows 7 or higher
- Administrator rights
- Installation of .NET 4.0 framework or higher
- HANA Client (On HANA environment only)
- Installation of SAP Business One. Make sure that Crystal Reports engine is installed as part of the SBO installation.
- A valid Produmex license

Please note: In order to use the scanning function, set the TAB suffix on the device.

For more information about hardware requirements and server sizing please see: Produmex Scan - Server sizing

2. 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:



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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' Disable the built-in OS buttons by ticking the 'Do not use b 	<i>built-in OS buttons'</i> option

3. 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.

3.1. Install Produmex Scan Add-on

3.1.1. Install the add-on

3.1.1.1. On Premise

3.1.1.1.1. Registering the Add-On

Extract the content of the .zip file on your local machine. The .zip file contains two files:

- BXMobileWH9Setup.ard
- BXMobileWH9Setup.exe

In SAP Business One, open the Add-On Administration window (Main menu > Administration > Add-Ons > Add-On Administration).

Click on 'Register Add-On' button.

Click on the '...' button beside the Registration Data File and browse the BXMobileWH9Setup.ard file. SAP Business One will fill out the path to the .exe file automatically. Enable 'Install as Part of Registration' and click on the 'OK' button.

Add-on Registration	_ ×
Installation Information Registration Data File Installation Package	C:\Install\ProdumexScan\BXMobileWH9Setup_17; C:\Install\ProdumexScan\BXMobileWH9Setup_17;
<u>Silent Installation Information</u> Upgrade Package	
Installation Params Package Uninstallation Params Package	
Upgrade Params Package	
✓ Assign to Current Company ✓ Install as Part of Registration	
OK Cancel	

First SAP Business One will register the add-on and then it will start the installation wizard.

3.1.1.1.2. Proceeding with the installation

If the 'Install as Part of Registration' checkbox was turned on, the installation will start right away with starting the install wizard. Click on the 'Next' button to start the installation.



Accept the End-User License Agreement by selecting the '*I accept the agreement*' option, and then click on the 'Next' button.

Setup - Produmex Scan Add-On for SAP Business One 🦷 🛛	
License Agreement Please read the following important information before continuing.	R
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 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").	
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	
www.produmex.com < Back Next > C	Cancel

Make sure all components are checked and that there is enough disk space. Click on the 'Next' button.

Setup - Produmex Scan Add-On for SAP Business One	_ [×
Select Components Which components should be installed?		\otimes
Select the components you want to install; clear the components you do no install. Click Next when you are ready to continue.	ot want t	0
✓ Produmex Scan Add-On for SAP Business One	38,0	MB
Deployment Files for Produmex Scan Add-On	49,7	MB
Current selection requires at least 98,6 MB of disk space.		
www.produmex.com < Back Next >	0	Cancel

Click on the 'Install' button to proceed with the installation.

Setup - Produmex Scan Add-On fo	or SAP Business One 🗧	
Ready to Install Setup is now ready to begin installing Produm One on your computer.	ex Scan Add-On for SAP Business	
Click Install to continue with the installation, o change any settings.	or click Back if you want to review or	
Setup type: Custom Installation Selected components: Produmex Scan Add-On for SAP Business Deployment Files for Produmex Scan Add Install Test Environment Components	s One 1-On	
<		>
www.produmex.com	< Back Install	Cancel

If the installation process takes too long time, then SAP Business One will ask you if the installation finished successfully.

System Message	×
Please wait for add-on installation to finish. Select Yes if installation finished sucessfully, otherwise select No.	?
Yes No	

If the installation was successful, click on the 'Yes' button.

Please note: If there was an error during installation, it will be failed regardless of your answer.

3.1.1.1.3. Activating the Add-on

Now you can see the add-on under Company-Assigned Add-Ons, on the right part of the window. Make sure the 'Active' box is checked.

Change the Default Group from 'Disabled' to 'Manual' or 'Automatic'.

- 'Automatic' means the add-on will launch each time you start SAP Business One.
- 'Manual' means you have to launch the add-on manually after each time you start SAP Business One. It is advised to use this option during the configuration phase.

Add	-On Administra	tion												_ ×
	Company Preferences	<u>U</u> se	r Preferenc	es	1									
Ava	ilable 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	×86	-]	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											
					∎									+
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Re	gister Add-On Rer	n <u>o</u> ve Add-C	Dn			Send	Notification to Use	ers						
	OK Cancel								M	anage Extension	s for Lig	htweight D	eploy	/ment

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

3.1.1.2. In SAP Cloud

3.1.1.2.1. Install the add-on on the Could Control Center

Download the lightweight installer. The zip file is named: ProdumexScanAddOnSetup_<version number>_<SB0 version number>_<environment>_lightweight.zip

Create a Produmex sub folder within the folder you defined as the Extension Repository Path. Upload the zip folder of the lightweight installer to this Produmex folder. Do not unzip the file.

On the Could Control Center, navigate to Landscape Management > Extensions.

Check whether the installation file is listed on the Extensions grid then press the 'Synchronize All' button to install the Produmex Scan add-on. Confirm that you would like to synchronize all extensions.

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SAP Cloud Control Center for SAP Busines	s One Version: 1.10.SP00.PL10								Welcome CCCADMIN	ብ
Home Customer Management	Extensions									
▲ Landscape Management	Synchronize All Remo	ove						15	\$	P \$
Service Units	Rame	Version	Provider	Туре	Platform	Path				
License Servers	Produmex AddOnLoader 7	18.2.1.5	Produmex	Add-On (Any CPU	\\DEVC	CCSRV.prod.be\Share	ed\Extensions\Repository\Produmex\F	Produmex AddOnLoader 7\18.2	2.1.5
Totabase Instances	B1 Usability Package	2018.05.00.0	Boyum S	Add-On (Any CPU	\\DEVC	CCSRV.prod.be\Share	ed\Extensions\Repository\Boyum Solu	itions\B1 Usability Package\20	18
ត Common Databases	Produmex Scan	18.2.10018.20.	. Produmex	Add-On (Any CPU	\\DEVC	CCSRV.prod.be\Share	ed\Extensions\Repository\Produmex\F	Produmex Scan\18.1.10018.20	930
Norage	Produmex Manufacturing	18.1.10018.20.	Produmex	Add-On (Any CPU	\\DEVC	CCSRV.prod.be\Share	ed\Extensions\Repository\Produmex\F	Produmex Manufacturing\18.1.	10
Presentation Servers	SBOScript	930.120.02	SAP	Add-On	32 bit					
Integration Components							1			
🛃 Mail Server		Co	nfirmation			×				
a Job Services			Do you w	ant to synchro	nize all exter	nsions				
😫 Extensions 🔍			to reposite	ory?			1 of 1 > >			
F SLD Agents										
📜 Task History	Extension Details			Ye	s N	lo				
Analytics Services	Configuration Deployed to S	ervice Unit As	signed to Tenan	t Compatib	lity Propert	ties	1			
🆄 App Frameworks							_			
🆄 Logical Machines	Name: Pr	odumex Scan					Type:	Add-On (Lightweight)		
Browser Access Servers	Version: 18	.2.10018.20930					Provider:	Produmex		
🆄 Service Layers										
🆄 Mobile Services										
Affinity Groups										
 System Configuration 										
 Support Management 										
Secret Key Management										
About										

If the installation is successful, on the opening Synchronization Report the status on the line of Produmex Scan is 'Successful'. The installation zip is automatically moved to the Produmex Shared Repository folder.

-	Name	Provider	Туре	Version	Mode	Time	Status
	Produmex Scan	Produmex	Add	18.2.10018.20	Manual	5/2	Success

3.1.1.2.2. Deploy the add-on to the Service Unit

When upgrading the add-on to a new version, make sure that the add-on is not running on any presentation server. If there is a running add-on, the upgrade will fail.

Next deploy the add-on on every service unit where you would like to use it.

Navigate to Landscape Management > Service Units. On the *Service Units* grid select the target service unit.

On the *Service Unit Details* grid go to the *Extensions* tab and click on the Deploy button. Follow the steps of the Extension Deployment Wizard. Select the Produmex Scan add-on at the *Select Extensions* step then finish the deployment.

Cloud Control Center for SAP Busines	ss On	e Version: 1.10.SP00	.PL10										Welc	ome CC	CADMIN	ቡ
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Norage										B1 Usabilit	y Package	2018.0	Boyum	Add	An	
Presentation Servers										Produmer	Scan	18.2.1	Produmex	Add	An	
Integration Components										/ I roddiniox	ooun		Trodument	7100		
🔜 Mail Server																
a Job Services																
🙀 Extensions 🗧							1									
F SLD Agents																
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🆄 Service Layers	_	SBUScript	930.120.02	SAP	Add-Un	32							Cancel	< Back	Ne	<pre>xt ></pre>
🆄 Mobile Services		Produmex Manufactur	ing 18.2.10018	Produmex	Add-On (Lig	Any	/							- Duon		
Affinity Groups		Produmex AddOnLoa	18.2.1.5	Produmex	Add-On (Lig	Any	CPU 1		Installed D	etails						
System Configuration																
Support Management																
Secret Key Management																
About																

3.1.1.2.3. Assign the add-on to the tenant(s)

This step is not required in the case of a version upgrade.

Finally assign the Produmex Scan add-on to the tenant(s) where you would like to use it.

Go to Customer Management > Tenants. Select the tenant on the *Tenants* grid. On the *Tenant Details* grid navigate to the *Extensions* tab, then click on the 'Assign' button. Follow the steps of the Extension Assignment Wizard. In the *Select Extensions* step select the Produmex Scan add-on, then finish the assignment.

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Customer Management	New	Register Pre-Upgrade Te	est Upar	ade Du	plicate Delete & Paging	10	View: All Tenants		•		Q
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Lenants		or Martin DECORTEM_O.	930120	resting		Se	ect Extensions				
V That Requests	🙆 Scan M	lartin 01 DECORTEM_S	. 930120	Testing	1 Select Extensions		Select the extensions you w	ant to assig	n.		
Reseller Requests	ᡚ Manuf I	Martin 01 DECORTEM_M.	. 930120	Testing	0. Process/Finish	-			D 11	-	
Landscape Management	Global	Trading WMS_DEMO	930120	Testing	Z Processi mish		Name	Version	Provider	Type	Platte Propert
System Configuration	<u> </u> Dev Ma	artin 01 DECORTEM_01	930120	Testing			SBOScript	930.12	SAP	Add	3
Support Management				Visible r			Produmex Manufacturing	18.1.10	Produmex	Add	A Details
Secret Key Management							Produmex Scan	18.2.10	Produmex	Add	A Details
About	Tenant Details						Produmex AddOnLoad	18.2.1.5	Produmex	Add	A Details
	 Configuration L 	icense Modules User Manac	ement Ex	tensions							
	Assign	Unassign	, 	•							
	Name	Version	Provider	Туре							
									Canaal	< Paak	Nexts
									Calicer	N Dack	INEX! >

3.1.2. Database Setup

When you first start the add-on after the installation, it will create its own database tables and user defined fields. The add-on will display a message whether to upgrade the database or not. Click on the 'Yes' button to upgrade the database.

To be able	to run the DBSetup the SAP user must be superuser.		
	System Message	×	
	Do you want to setup the database now? Yes No		

Please note: On MSSQL, the system will check whether there is a backup created within an hour. If no such backup is detected, a warning will be shown and the add-on exists. Create a backup of the database then restart the add-on.

On the next screen set up the database connection. Enter the database user name and the database password. After the DB Connection is set up, the system will upgrade the database.

	DB Connection Setup	×
Usemame		
Password		
	OK Cancel	

After clicking on the 'OK' button, a progress bar will appear and it will go through the database setup process. After the database structure has been modified, another System Message is displayed. Click on the 'Yes' button to add the user-defined fields.

System Message	×
The database structure has been modified. In order to resume the process, all open windows will be closed. Do you want to continue adding the user-defined field?	?
Yes No	

A confirmation is displayed that the database structure have been modified. Acknowledge the message.



A System Message window warns that the add-on stopped:



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

3.2. Produmex Service Broker

Do not run both the 32-bit version and the 64-bit version Service Broker on one environment as they conflict with each other. Only one service broker instance should be installed on a server at any time.

The Service Broker establishes the connection between the company database/schema and the application on the mobile device. It queries the data from the database/schema and sends it to the mobile application, and it creates the SBO documents based on the requests from the mobile devices. The SBO documents are created with SAP DI API 32bit version.

The Service Broker can run as a service or from a command window. 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.

If the Service Broker does not run, the communication between the clients and the company database/schema is not possible.

The service broker creates its log files at *C*:*ProgramData**BX**BX Service Broker**Logs*. 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 Servi	ice Broker		- 0	×
File Home Share Vie	W				~ ?
🔄 🌛 🔻 🕇 <u>]</u> C:\ProgramE	Data\BX\BX Service Broker	v ¢	Search BX Serv	ice Broker	,c
☆ Favorites	Name	Date modified	Туре	Size	
	퉬 Logs	12/19/2016 12:23	File folder		
🤣 Homegroup	퉬 Modules	12/19/2016 12:23	File folder		
I♥ This PC 역 Network					
2 items 1 item selected					:==

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

EULA

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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 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						
	I agree to the license terms and conditions Options Install Close]					

Service settings

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 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 company

database/schema, the user must have rights for that as well.

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.

You can also set up the start mode of the service. The recommended start mode is Auto.

🚱 Produr	nex Service Broker Config	- 🗆 🗙
Service Broker - Service setti Specify which system user and por	ings rt should the service run with	
Service run as user Password for user	LocalSystem	¥
Service port	50231	
Service state Start mode	Auto	¥
Exit if any module loading fails	v	
	< Back Next >	Cancel

Admin page

On the next screen specify a password for the Service Broker Administration web page.

.	Produmex Service Broker Config 🛛 – 🗖 🗙
Service Broker - A Specify a password fo	min Page the Service Broker Administration web page
Web password	•••••
	< Back Next > Cancel

Database connection

Then you have to provide connection data to the database server.

Select the database type from the dropdown menu.

• MSSQL

Add the name or the IP address of the database server. 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).

Enter the database port on which the application can connect to the server. The default port is 1433.

Add the name and the password of the database user. The default user is sa.

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			

• HANA

Add the name or the IP address of the database server. The database server name has to be added with the exact same format as it was added during the installation of the SAP Business One client. Enter the database port on which the application can connect to the server. The default port is 30015.

Add the name and the password of the schema user. The default user is SYSTEM. It is recommended to install the Service Broker with the SYSTEM user.

Reprodumex Service Broker Config		—		×
Service Broker - Database connection Please provide database (SQL) connection parameters			ł	
Database type	HANADB			\sim
Database Server	imdbhdb			
Database Port	30015			
SQL username	SYSTEM			
SQL password	•••••			
Domain user name (SAP B1 Cloud only)				
Domain password (SAP B1 Cloud only)				
	< Back No	ext >	Cano	cel

When working on SAP B1 Cloud, add the domain user name and password as well.

Default SAP Company

After that you have to set up the company database/schema. You can only set up one company here, if you have more than one database/schema, you can add the others in the Produmex Service Manager after installation. For more information please see: Produmex Service Manager-Add new database.

Enter an SAP user here which has at least an indirect access license as of SBO 9.2. PL08.

R	Produmex Service Broker Config	-	
Service Broker - D Specify the default S			
Company SAP username SAP password SAP language	OEC Computers - SBODEMOUS		
	< Back Next >		Cancel

Summary

At the end of the installation you will see a summary screen about you settings. Click 'Finish' to end

the installation.

0	Produmex S	Service Brok	er Config	-		
Service Broker - /erify requested se	Summary ettings, they will be sa	aved when you p	ress finish		6	2
Server: PMX_BUI SQL user: sa Database: SBOD SAP user: manag	DTOSH2 EMOUS er					
		< Back	Finish		Cancel	

Configure dependency from the SBO Server Tools service on an MSSQL system If the server where Produmex Service Broker runs needs to be restarted frequently, we advise to configure dependency from the SBO Server Tools service.

When Produmex Service Broker starts, it tries to connect to the SAP environment. If the connection fails, Produmex Service Broker will not start.

If the Produmex Service Broker is dependent from the SBO Server Tools service, it will only start after the SBO Server Tools service is started, therefore it will be able to connect to the SAP environment.

To configure the dependency, open the Command Prompt window and enter the following:

C:\>sc config BXServiceBroker depend=B1ServerTools

Administrator: Command Prompt

C:\>sc config BXServiceBroker depend=B1ServerTools [SC] ChangeServiceConfig SUCCESS

C:/>

On the Dependencies tab of the Produmex Service Broker properties you can see that the dependency is successfully added:

lum	ex Servic	e Broker			Produmex Se	ervice Broker			Automa
gra	Produme	ex Service	Broker Pro	perties (Local Co	mputer)	×	ort for the Program Compatibility Assistant (Running	Automa
lit							deo Experience (qWave) is a networking platf		Manual
io	General	Log On	Recovery	Dependencies			irplane Mode Service		Manual
tel	~						:ek audio driver.	Running	Automa
not	aroups.	ervices de . If a syster	pena on otn n componen	er services, systen t is stopped, or is r	n anvers or load ord not running properly	der /.	remote network whenever a program referen		Manual
not	depend	lent servic	es can be af	fected.			al private network (VPN) connections from t		Manual
ot	Produm	nex Service	e Broker				ation service (RDCS) is responsible for all Rem	Running	Manual
ot	T1 :						teractively to a remote computer. Remote De	Running	Manua
ot	Inis se	rvice depe	inds on the f	bilowing system co	imponents:		rinters/Drives/Ports for RDP connections	Running	Manua
not	±	🔉 SAP Bu	siness One S	erver Tools Servic	be		ervice Control Manager for COM and DCOM	Running	Autom
not							er versions of Windows, the Remote Procedur		Manua
not							odify registry settings on this computer. If thi		Disable
il I							pntrols device activity while the device is in re		Manual
tin							pusinesses in local area and wide area networ		Disable
Er							entifiers to transport endpoints. If this service	Running	Automa
Вι	The fol	lowing sys	tem compon	ents depend on th	is service:		Access Server Gatekeeper	Running	Automa
Вι		🖹 <no de<="" td=""><td>pendencies></td><td></td><td></td><td></td><td></td><td>Running</td><td>Automa</td></no>	pendencies>					Running	Automa
Вι							/ Service	Running	Autom
Вι							/ Service Monitor	Running	Autom
Вι									Manual
Вι							ander Service	Running	Automa
Вι							/er - http://tomcat.apache.org/	Running	Automa
Вι							enSSL/1.0.2k	Running	Automa
Вι				ОК	Cancel	Apply		Running	Automa
BL.		,					1		Manual
Bus	iness On	e Server T	ools Service	2	SAP Business	One Server	Tools Service	Running	Automa

Please note: Do not set the dependency on HANA enviroments. Since the Produmex Service Broker is a Windows service, SAP HANA and Produmex Service Broker are running on separate servers. In order to avoid this issue, make sure that the HANA server is already running when you restart the server of the Service Broker.

3.3. Server Module

The Produmex Service Broker can work together with different Produmex add-ons. In order to do it, it uses the dlls of the given 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 Service Manager. For more information please see: Configuring Produmex Service Broker

	ProdumexServiceBroker service configuration	- 🗆 ×
1	General Produmex Service Broker	
File Service Help	+ × 😟	🏟 Admin Page
	BXManufacturingPDCProcessor 18.01.24001.18920	
ProdumexServiceBroker TEST_SCAN	BXPPSMobilePDCWebAPI 18.01.24001.18920	
	BXMobileWH9WebAPI 17.11.30001.18920	
	BxServiceBroker.Admin.WebAPI.dll 17.11.30001.18920	
	Produmex Service Broker is running.	
	OK Cancel	.el

3.4. 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 server, and the connection data to the company database/schema 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.

3.4.1. 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/schema.

MSSQL

At 'Server' enter the name or IP address of the server. At 'Port' you have to enter the port on which the application can connect to the database server. Usually it is 1433, however, if you have a named instance in the SQL server, then you have to check the actual port. Then choose MSSQL version number and enter the SQL Server user name and password.

Setup Compar	nies	- 🗆 🛛
+ 💉 🗙 🛛		
OEC Computers	Server:	PMX_BUDTOSH2
SBODEMOUS [manager]	Port	1433
	MSSQL Version	MSSQL 2012 V
	Language	In_English
	SQL User	sa
	SQL Password	•••••
	Domain user name (SAP B1 Cloud only)	
	Domain password (SAP B1 Cloud only)	
		Test DB Connection
OK Cancel		

How to check the port number on SQL

Open the SQL Server Configuration Manager. Select the 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.



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

• HANA

At 'Server' enter the name or IP address of the server. Please note: The database server name has to be added with the exact same format as it was added during the installation of the SAP Business One client.

At 'Port' you have to enter the port on which the application can connect to the database server. The default port is 30015.

Select HANADB from the dropdown menu and enter the user name and password.

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9	etup C	ompanies		– 🗆 X
1	+ 🗸	$\mathbf{X} \mid \mathbf{\nabla}$		
		OEC Computers	Server:	imdbhdb
		SBODEMOUS [manager]	Port	30015
			MSSQL Version	HANADB \sim
			Language	In_English
			SQL User	SYSTEM
			SQL Password	•••••
			Domain user name (SAP B1 Cloud only)	
			Domain password (SAP B1 Cloud only)	
				Test DB Connection
	O	Cancel		

When working on SAP B1 Cloud, add the domain user name and password as well. At 'Language' it is possible to modify the language of the DI API transactions.

If you click on Test DB Connection, Service Manager will try to connect to the server with the given data. If the connection can be established, you will get a message: *Database connection test – success!*

3.4.2. Add new database

Click on the Setup Companies button.

On the opening 'Setup companies' screen check the connection data. If you would like to add a database from a different database server, modify the connection parameters then click on the 'Test DB Connection' button to test the connection. The modification of the connection parameters does not affect the connection settings of the already added databases.

Click on the '+' icon to add a new database/schema.

Setup Compan	ies	- 🗆 ×
+ 🗡 🗙 🛛		
OEC Computers SBODEMOUS [manager]	Server:	OtherServer
	MSSQL Version	MSSQL 2012 V
	Language	In_English
	SQL User	SQLuser
	SQL Password	•••••
	Domain user name (SAP B1 Cloud only)	
	Domain password (SAP B1 Cloud only)	
		Test DB Connection
OK Cancel		

On the 'Database Setup' window select the database/schema from the dropdown menu.

Enter an SBO User and its password to create the connection to the database/schema. 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 SBO user also need at least an SAP Indirect Access license type as of SBO 9.2. PL08.

	Database Setup 😑 🗖 🛛 🛛	
Database	SBODEMOHU - OEC Computers Hungary 🗸	
SBO User	manager	
SBO Password		
Save	Cancel	

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

Now you have to assign your companies to the Produmex Service Broker and other Produmex services.

Click on the 'Companies...' button and select the company database/schema on the opening 'Select Companies' screen.

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6	Produmex Service Manager	- 🗆 ×
File Service Help	Select Companies – Select company databases for service SBODEMOHU SBODEMOUS	Setup Companies
	OK Cancel .:	

3.4.3. 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.

General tab

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 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. It is automatically done by the module installer for you, so you only have to set this manually in specific cases. To add multiple modules, separate them by comma.

- In order to use Produmex Manufacturing, set it to BXPPSMobilePDCWebAPI.dll
- In order to use Produmex Scan, set it to BXMobileWH9WebAPI.dll
- In order to use Produmex Operator, set it to BXMWWebAPI.dll.

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 Service Broker cannot connect to SBO 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.

E.		Produmex Service N	lanager	-	
File Service Help		Produme	exServiceBro	ker service configuration	- 🗆 ×
Produmex ServiceBrok	General Produ	umex Service Broker			
SBODEMOUS	Run As User	LocalSystem	~	ne 21 E	
	Password			⊿ Misc	
				Concurrent tasks (piece)[[0	
	Start Mode	Auto		Debug writeline log? (true, false	
				Exit if any module loading true	
				HTTPS enable? (true/fals false	
				Kill long time (seconds) 300	
				Kill on memory usage (mby 1000)
				Kill time (seconds) 30	
				Modules to load (comma s	
				Port to listen on 5023	31
				Record comm.data details false	(
				Server discovery enable? true	
				SSL Port to listen on 5023	32
				Concurrent tasks (piece)[0-no Concurrent tasks (piece)[0-not limite	t limited] d]
	ОК	Cancel			.:

Produmex Service Broker tab

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

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

	ProdumexServiceBroker service configuration	- 🗆 🗙
F a	General Produmex Service Broker	🛱 Admin Dama
File Service Help	BXMobileWH9WebAPI 18.01.00001.18920	St Admin Page
ProdumexServiceBroker SBODEMOUS	BxServiceBrokerAdmin.WebAPI.dll 18.01.00001.18920	
	Produmex Service Broker is running.	
	OK Cancel	

3.4.4. 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, 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.

<u>_</u>		Services		-	×
File Action View	Help				
Services (Local)	Services (Local)	-			
P	Produmex Service Broker	Name	^		^
<u>s</u>	Stop the service	Rodumex Service Brok	er	-	
<u>R</u>	<u>Restart</u> the service	Produmex Service Brok	er Properties (Local Computer)	×	
	Description:	General Log On Recovery	Dependencies	_	
P	Produmex Service Broker	Select the computer's respons actions.	e if this service fails. <u>Help me set up recover</u>	Y	
		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 wi	ith errors. Restart Computer Options		
		- Run program			
		Frogram.	Browse		
		Command line parameters:			
		Append fail count to end	d of command line (/fail=%1%)		
			OK Cancel Apply	/	*
L\	Extended Standard				1

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

C:\Program Files (x86)\Produmex\ServiceBroker\BxServiceBroker.Console.exe – 🗖 🗙	
server.OpenAsync().Wait() 12:21.00 Assembly loaded: System.Net.Http, Version=4.0.0.0 before Thread start	
Listening on http://localhost:50231/	
12:21.00 Listening on http://localhost:50231/	
12:21.00 Started discovery service	
12:21.00 HSSEMDIY loaded: BXSErViceLilentLiD.WinForm, Version=17.11.30001.18720	
12-21.01 HSSEMDIV Iodueu. HCCessiDiiity, Version-4.0.0.0	
12.21.01 HSSEMDIU loaded: System.nami, version-4.0.0	
12-21.01 Assembly loaded: Michaelt Partice SawiceLocation Heysion=1.0.0	
12:21 01 Assembly loaded: Guistal Decisions Cwistal Reports Engine ewsion=13 0 2	
12-21.51 hssembly ibadeu. Grystalbeelsions.Grystalheports.Engine, version-13.5.2	
12:21.01 Assembly loaded: CrystalDecisions.Shared. Version=13.0.2000.0	
12:21.01 Assembly loaded: CrystalDecisions.ReportSource. Version=13.0.2000.0	
12:21.01 Assembly loaded: Antlr3.Runtime. Version=3.5.0.2	
12:21.01 Assembly loaded: Anonymously Hosted DynamicMethods Assembly. Version=0.	
0.0.0	
12:21.01 Assembly loaded: BxServiceCommon, Version=17.11.30001.18920	
12:21.01 Assembly loaded: System.Web, Version=4.0.0.0	
12:21.01 Assembly loaded: System.ComponentModel.DataAnnotations, Version=4.0.0.0	
12:21_01 Assembly_loaded: System.Xml.Ling, Version=4.0.0.0	
Test Status: Running	

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

3.5. 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. For more information about hardware requirements and recommendations please see: General requirements for handheld devices

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.

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Add Feat	Add features required for Deskte You cannot instal Desktop Experience unless the	op Experience? requied/eaures 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
① <u>w</u>	w are three leatures required?	li.

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

- 32 bit
- 64 bit

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 -amd64.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.



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. Please always check the release notes of the new version before starting the upgrade, because it might contains important information regarding the upgrade.

4.1. Produmex Scan Add-on

The steps of a version upgrade for the Produmex Scan add-on are identical to a new installation.

If you are upgrading from a version higher than 17.05, it is not required to uninstall the current version before starting the upgrade.

When the add-on is started the first time after the upgrade, the database setup will run. Please note: In order to run the database setup, a database backup that was created within an hour is required on an MSSQL environment.

4.2. Produmex Service Broker

If you are upgrading from version 17.09 or higher, it is not required to install a new version of the Service Broker for an upgrade of Produmex PDC/Scan. If you are upgrading from a version previous to 17.09, please take the extra steps described here: Version 17.09. The steps of a version upgrade are identical to a new installation.

If you would like to uninstall the 32-bit DI API when upgrading to the 64-bit Service Broker, it is advised to uninstall both the 32-bit and the 64-bit DI API and then install the 64-bit DI API again because on certain SBO versions the uninstallation of the 32-bit DI API can cause issues for the 64-bit DI API.

Compatibility matrix

		Service Broker Version					
		18.2.	18.1.	17.11.	17.09.	17.05.	
	18.2.	1	1	1			
	18.1.		1	1			
Server Module version	17.11.			1			
	17.09.				1		
	17.05.					1	

4.3. Server Module

The steps of the version upgrade for the server module are identical to a new installation.

4.4. Produmex Scan client

The steps of the version upgrade for the Scan Client are identical to a new installation. If you are upgrading from a version higher than 17.05, only uninstall the current Produmex Scan version if based on the settings of the operating system, the installation process requires it.

5. Adding a new database to an existing installation

1. Assign the Produmex Scan Add-On to the database.

2. Start the add-on and run the database setup. When working on a MSSQL environment, create a database backup before starting the database upgrade.

3. Open Produmex Service Manager. Click on the 'Setup Companies' button and add the database. Then click on the 'Companies' button and enable the company. For more information please see: Produmex Service Manager

4. Run the configurator for Produmex Scan. On the General tab, select the database from the list of databases and click OK.

6. Troubleshooting

6.1. Failed installation

If installation fails for some reason, you usually find the add-on at the Pending add-ons tab, from where you can try the installation again. Select the line of the Produmex add-on, then click on the 'Install' button.

Installed Add-	Ons <u>P</u> ending	Add-Ons	Failed	Add-Ons for Li	ghtweight Develop	pment
Add-On ID	Add-On Name	Add-On \	/ersion	Partner	Operation	Platform

6.2. Getting a license

An active license is needed for running correctly this add-on. For more information about licensing please see: Licensing System



6.3. No backup detected

If the system detect that there is no backup, it will show this window:



Press OK. As the add-on stopped, the system will ask you how you want to continue:



Choose the last option: Continue working without this Add-on, and then press OK. It will stop the addon. To continue, back up the current customer database.

6.4. Wrong digital signature for Add-on installer

When starting the Produmex Manufacturing add-on after the installation, the following error message appears: 'Wrong digital signature for Add-on installer'



The most likely cause for this issue is that the installation .exe file was corrupted during the extraction process. Extract the installation .zip folder again and start the installation afresh.

6.5. Connection to the company failed on HANA

During the installation of the Service Broker on HANA environment, the following error message appears after the default SAP company was specified:

	×
BxServiceManager.DITesterUserException: Connection to company failed: -10 - The specified resource name cannot be found in the image file. Server=IMDBHDB Port=30015 User=SYSTEM SAPCompany=TEST_ANDRAS SAPUser=manager at BxServiceBrokerConf.SBConfigForm.RunInWait(String waitText, Action`1 workerAction) in c:_BUILD\bxpps-build\BXMobileFramework\BXServiceBroker\BxServiceBrokerCo nf\SBConfigForm.cs:line 170 at BxServiceBrokerConf.SBConfigForm.wizardPageSAPConnection_CloseFromNext(Object sender, PageEventArgs e) in c:_BUILD\bxpps-build\BXMobileFramework\BXServiceBroker\BxServiceBrokerCo nf\SBConfigForm.cs:line 260	
ОК]

It means that the connection cannot be established to the database server. Go back to the Database connection screen of the Service Broker installer and enter the name of the database server with the exact same format as it was defined during the installation of the SAP Business One client.

Setup a Windows scanner for Produmex Scan on Windows Embedded Handheld 6.5

The Produmex Scan client application runs natively on Windows mobile devices. It is also possible to run it on the server and access through remote desktop, but it is only recommended on cloud environments where the network connection is slower in order to avoid latency issues.

In this documentation we demonstrate the configuration steps on two different devices:

- Zebra MC67NA mobile computer (Windows Embedded Handheld 6.5 Professional)
- Honeywell Dolphin 60 handheld computer (Windows Embedded Handheld 6.5 Classic)

Please note: The configuration steps may differ based on the device and the operating system.

1. Setup the Wi-Fi connection on the device

Set up the Wi-Fi connection on the device. The Produmex Scan client application connects to the Service Broker by using HTTP/HTTPS protocols.

1.1. Example: Zebra MC67NA

From the Start menu select Wireless Companion>Wireless Launch. On the Fusion Launcher screen press 'Find WLANS'. On the next screen every active WLAN in the area is listed. Press the WLAN you would like to connect and select the 'Create profile' option.



Follow the steps of the Wireless LAN Profile Entry and save the profile.

Manage Profiles 🛛 🐏 🏝 🗲 🖅 15:13	Manage Profiles 🛛 🐏 🕵 👗 📢 🖅 15:13	Manage Profiles 🛛 🐏 🏝 🗲 🖅 15:14	Manage Profiles 🛛 🏞 🕵 🏝 📢 🖅 15:14
Profile Name	Profile Name	Profile Name	Profile Name
Pradumex	Pradumex	Produmex	Pradumex
Wireless LAN Profile Entry 🛛 🗙	Wireless LAN Profile Entry 🛛 🗙	Wireless LAN Profile Entry 🛛 🗙 🗙	Wireless LAN Profile Entry 🛛 🗙
Profile Name: Produmes ESSID: Produmex 1 of 9 <u>Cancel</u> < <u>Back</u> <u>Next</u> >	Operating Mode: Infrastructure	Security Mode: WPA2 - Personal Authentication Type: None 3 of 9 Cancel < Back Next >	Fast Rearning Options: Allow Cisco CCKM ✓ Allow Symbol HFSR 4 of 9 Cancel ✓ ancel Spack
# =	* 🖷	2	# =

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Manage Profiles 🛛 🍕 🕵 🏹 📢 🖅 15:15	Manage Profiles 🛛 🏊 🕵 🎽 🛋 15:15	Manage Profiles 🛛 🎠 📯 🏹 📢 🖅 15:16	Manage Profiles 🛛 🏊 🕵 🎽 🚅 15:16
Pradle Name Pradumex Wireless LAN Profile Entry X Encryation Ref	Prafile Name Pradumex Wireless LAN Profile Entry AE5 P5K: Enter 8-63 characters	Prafile Name Pradumex Wireless LAN Profile Entry X	Prafile Name Pradumex Wireless LAN Profile Entry X
Type: Allow Mixed Made Enter Preshared Key (PSK) using: Pass-phrase Hexadecimal Keys For added security - Mask characters entered	Key ••••••••• 9 Canfirm	IPv4 Address Type: Dotain Device IP Address Automatically Obtain DNS Address Automatically Obtain WIN5 Address Automatically	Battery Usage Mode: CAM Fast Power Save MAX Power Save
5 pf 9 Cancel < Back Next >	6 of 9 Cancel < Back Next >	7 of 9 Cancel < Back Next >	B of 9 Cancel < Back Next >

Manage Profiles 🛛 🔂 🗣 🗁 📢 🗺 15:16						
Profile Name						
Produmes						
Wireless LAN Profile Entry 🛛 🗙						
Performance Settings:						
Optimize for Data						
Optimize for Voice						
9 of 9 Cancel < Back Save						
A 😑						

To save the profile to the fixed menu of the device, press Manage Profiles on the Fusion Launcher screen. Tap on the profile and select the 'Export' option. Select the destination folder and press *Save*.



1.2. Example: Honeywell Dolphin 60

Press the WLAN SWC icon since and go to the 'Config' tab. Press the 'New' button to establish a new connection. Fill in the required parameters and tap OK.

Then select the profile from the list and tap 'Activate'. The device tries to connect to the network

according to the entered parameters.

	📰 🃢 🕑 2:26	WLAN SWC	🛱 📢 🕑 2:40	Network	💭 🕂 🔁 2:41	WLAN SWC	# 🕂 🔁 2:43
0	Monday, April 09, 2018	ID Name	Activate	Profile Name	BP	ID Nam	e Activate
P	₿ : Off	10 Norric	THEFT	SSID	Deadument	↓ 0 BP	- Therefore
0	Getting Started		New	Band	Produmex		New
	No unread messages		Modify	Band	Auto		Modify
	No tasks			Assoc Mode	WPA2-Personal (PSK) 💽		· · · · · · · · · · · · · · · · · · ·
=	No upcoming appointments		Delete	Key Caching	OKC/PKC		Delete
Bir	ng 🔎		Scan	Network Id	0		Scan
ſ	Device unlocked		Export	Encryption	AES-CCMP		Export
				PSK			
				Tab q w e	r t y u i o p []		
				CAP a s d	fghjkl;		
		Config IP Advance	ed About 🖣 🕨	Shift z x c Ctláü ` \	· v b n m , . / ← ↓ ↑ ← →	Config IP	Advanced About 4
Ģ	Calendar Contacts		OK	Ск	Cancel	\bigcirc	ОК

2. Scanning settings

The following scanning configurations are necessary in order to use Produmex Scan properly:

- Configure to send TAB after each scanning.
- Set the used barcode prefix and suffix on the device and in Produmex Scan Scanning tab of Produmex Scan Settings in SAP Business One. In the example we set '(' as the prefix and ')' as the suffix.
- If you are using GS1-128 barcodes, define further scanning configurations on Produmex Scan Settings in SAP Business One. On the Produmex Scan Scanning tab set the following:
- Add the group separator character for GS1-128 type barcodes as the 'GS1-128 barcode group separator'. In the example we set '\$' as the group separator. Please note: Hidden characters are not supported.
- Define the 'CodeID' type. Please note: Currently only 'Symbol' is supported.

Produmex Scan Settings	
General SQL Logs Reports Produmex Scan General Produmex Scan Scanning Produmex Scan	Picking Produmex Scan Strategies
Item code or item barcode must be scanned for Sales Order	
Item code or item barcode must be scanned during Picking	
Prefill quantities for Goods Receipt PO	None 🔻
Prefil quantities for Stock Transfer Request	None 🔻
Prefil quantities for Picking	None
Prefill quantities for Issue for Production	None
Prefill quantities for Receipt from Production	None
Prefill quantities for Return Components	None
Prefill unique batches (outgoing processes)	
Prefill unique batches for Stock Counting	
Post the corresponding quantity when scanning item barcode in quantity field	
Barcode scanner prefix	(
Barcode scanner suffix)
G51-128 barcode group separator	\$
Code ID type	None
The sector group of the sector sector (congoing processes)	
Allow selecting batches from Find Stocks screen (outgoing processes)	
Optimized mixed serial/bin handling (Goods Receipt PO, Stock Transfer Request)	

2.1. Example: Zebra MC67NA

Open DataWedge, for example from Start > Settings > System> DataWedge.

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Tap Basic configuration then press Basic Format.

Settings 🛛 💀 🖓 🛋	€ CEE 14:48	DataWedge	回 い ど	- € CEE 14:49
DataWedge v3.7		<	Basic (Profile0)	> Home
Ready to capture		1. Scanner	input	
Running Start/stop DataWedge process	Yes 🖰	2. KeyStro	ke output	
Basic configuration Profile0 with basic scanner	Þ	3. Basic fo	rmat	
Advanced configurat Multiple profiles & capture me	thods	4. About		
© 2011-2014 Symbol Techno	logies,Inc.	0. Exit		
* =	ок	-	=	×

To set the barcode prefix, press 'Prefix to data'. Add the prefix character on the next screen. In the example we set the '(' character as the prefix.

To set the barcode suffix, press 'Suffix to data'. Add the suffix character on the next screen. In the example we set the ')' character as the suffix.

In order to send TAB after each scanning enable the 'Send TAB key' setting. Make sure that the 'Send ENTER key' option is disabled.

DataWedge	🖭 🚱 🖄	🕂 🖅 14:49	DataWedge	🖭 💬 🎦 •	🔆 🕑 14:50	DataWedge	🔤 🕵 🎦	€ 🕑 14:51	DataWedge	🔁 🐏 🎦	候 🕑 14:53
Back < √ 1. Enabled	Basic format	> Home	Back < Prefix to data	Basic format	> Home	Back < Suffix to data	Basic format	> Home	3. Suffix to d	lata	^
2. Prefix to	data	-1	d)			4. Send data Enabled	Ì	
3. Suffix to	data		Press ENTER t below.	to save or tap	Cancel	Press ENTER t below.	o save or tap	Cancel	5. Send as h Disabled	ex	
4. Send dat	ta		Save	Cancel]	Save	Cancel		√ 6. Send TAB	key	
5. Send as	hex								7. Send ENT	ER key	
√ 6. Send TA	B key	<u> </u>							0. Back		
15		×	1		×	11		×	1		×

2.2. Example: Honeywell Dolphin 60

On the main menu screen press the Scanwedge icon **un** and select 'Settings...'. Go to the Settings folder under Scanwedge.



To set a barcode scanner prefix, select 'PrefixKeys', press 'Edit' then select 'Modify'. On the next window enter the ASCII code of the prefix character. In the example we set the '(' character as the prefix.

/honeywell/scanwedge	≥#≮@	12:46	/honeyv		~	1:49	Edit Key	부 🗲 🔁 11:50
— 🧰 Scanwedge			🖃 🖬 🚽			- 12	Name:	PrefixKeys
- 🔄 Settings			-6	Modify			University	
- Comm					(0) 1.00	41	value:	
Decode				Cut	(Ctrl+X)		10	0
	::		<	Conv	(Ctrl+C)		Descrit	ation:
Key	Value	^	Key	-2P1	(carro)	\sim	Define	a the ACCII keys to be cent
PrefixKeys	40		🖌 Debu	Paste	(Ctrl+V)		prior t	o the decoded/received data.
SuffixKeys	41,9		Soun Soun	Lanca	(carry)	A	The A	SCII keys are converted to
✓ PrefixID	Disabled		✓ Leds	Deather	ch th		virtual	keys using the data stored in 📳
SuffixID	Disabled	-	🖌 Data	P <u>a</u> ste a	s Child		the Vi	rtual Key Mapping table.
SoundConnect	Enabled		🖌 Prefb				Suppo	rts up to 16 ASCII keys. Data
MessageConnect	Disabled		Suffb	Delete				
SendMode	Virtual Kev		Z Prefb		~	- ĽĚ		Cancel
File Edit View Tools Help		-	File Edit V	iew Tools Hel	p		3	

To set a barcode scanner suffix, select 'SuffixKeys', press 'Edit' then select 'Modify'. On the next window enter the ASCII key of the suffix character. **Make sure that you add TAB as the suffix after the selected suffix character as well.** Do not add TAB as the Barcode scanner suffix value in Produmex Scan Settings. In the example we set the ')' character as the suffix.

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2.3. Example: Zebra MC32N0

3. Interchar delay

When running Produmex Scan through remote desktop connection, it is possible that the device sends characters so quickly through the remote connection that it causes incorrect character display.

In order to avoid this issue setup Interchar delay.

3.1. Example: Zebra MC67NA

http://wiki.produmex.name/

Open DataWedge > Basic configuration > KeyStroke output > InterChar delay and add the value. The value for InterChar delay depends on the network speed and stability. You can find the the correct value by progressively increasing it until the communication is stable.

DataWedge 🛛 🖶 📯 Ž.) 📢 🖅 14:49	DataWedge 🛛 💀 🖓 📢 🖅 14:5	4 DataWedge 🛛 💀 📯 🏝 🐗 🖅 14:55
< (Profile0) > Home	Back < KeyStroke > Home	Back < KeyStroke > Home
1. Scanner input	$\sqrt{1}$. Send as events	InterChar delay
2. KeyStroke output	v 2. Allow Escape chars	10 Press ENTER to save or tan Cancel
3. Basic format	3. InterChar delay	below.
4. About 	v 4. Ignore word suggestion	Save Cancel
0. Exit	5. Keymap 	
	6. Feedback	
😑 🛛 🗶	= X	💐 🗉 🗙

It is possible to set InterChar delay for a given scanning profile only. Open DataWedge > Advanced configuration > Profiles > Your profile > Output > KeyStroke > InterChar delay where 'Your profile' is the name of the given scanning profile. On the next screen add the value and press Save.

4. Setup for power usage (Recommended)

4.1 Automatic sleep mode

Open Power settings from Start>Settings>System>Power. Go the the Advanced tab. To set an interval, check the checkbox under 'On battery power' and choose an interval from the dropdown list (maximum 5 minutes).

To disable the automatic sleep mode, uncheck the box.

4.1.1. Example: Zebra MC67NA

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4.1.2. Example: Honeywell Dolphin 60

4.2. Backlight

It is recommended to set the backlight with a timeout, because this is the main battery consumer.

4.2.1. Example: Zebra MC67NA

Open Backlight settings from Start>Settings>System>Backlight. Go to the *Battery Power* tab.

To set an interval, check the 'Disable backlight if device is not used for' checkbox and choose an interval from the dropdown list.

4.2.2. Example: Honeywell Dolphin 60

Open Backlight settings from Start>Settings>System>Backlight. Go to the Dim Backlight tab.

To set an interval, check the 'On Battery power, dim backlight if device is not used for' checkbox and choose an interval from the dropdown list.

Setting Up Android Devices for Produmex Scan

1. Setting up Wi-Fi Connection

Set up the Wi-Fi connection on the device from Android settings.

2. Setting up Remote Desktop Connection

1. Install Remote Desktop on your device. If the device has access to Google Play, install the Microsoft Remote Desktop app from Google Play, otherwise download the Microsoft Remote Desktop .apk file and install it manually on the device.

- 2. Open the Remote Desktop app.
- 3. Tap the + icon and select *Desktop* to add a new connection.
- 4. Tap Add Manually.

- 5. Enter the IP address or the host name as the *PC name*.
- 6. Add the user account by entering the user name and password and tap Save.

× Add desktop	SAVE	Add user account
PC name		User name
172.16.10.23	×	user ×
User name		Password
user	-	×
How do I set up a PC?		CANCEL SAVE
		T Z X C V D N M 🐿
		?123 , Save

7. Open remote desktop and tap the 💻 icon.

8. Set the mouse mode to *Touch*. Tap the *Touch* icon on the right sidebar. The mouse mode is *Touch* if the *Mouse Pointer* icon is displayed.

3. Display Settings

3.1. Remote desktop

We recommend setting the orientation as *Portrait*. This can be done in the following way:

Set the orientation of the Remote Desktop app to *Portrait*. Open the app settings and select the *Display* menu. Set the Orientation to *Lock to portrait*.

■ Remote Desktop +	ය Home	+ 🗮 Display
Melantere et hand Hannat Nancat	Settings	Orientation
	194 General	Auto-adjust
	🖵 Display	Lock to landscape
	A Gateways	Lock to portrait
170 14 10 02	A User Accounts	+ Custom
172.10.10.23	① About	
	? Help	
	What's New	

3.2 Device

We recommend the following settings on the device.

Client configuration parameters						
General	Advanced Diagnostics					
Don't Use Built-in OS Buttons						
Customization Assist Mode						
Win. Layout Desktop Fullscreen 💌						

- 1. Open the Configure Produmex Scan application.
- 2. Tick the **Do not use built-in OS buttons** option to disable the built-in OS buttons.
- 3. Set the Windows layout to **Desktop fullscreen**.

4. Creating a Scheduled Task

Create a scheduled task for the batch file that is triggered at log on.

Start the *Task Scheduler* and click Create Task. Make sure that on the Triggers tab the *Begin the task setting* is set to **At log on**.

Task Scheduler		- 🗆 X
File Action View Help		
	-	
Task Scheduler (Local)	Task Scheduler Summary (Last refreshed: 4/3/2019 1:40:18 PM) Actic	ns
lask Scheduler Library	Task	Scheduler (Local)
(B) Create Task		× omputer
General Triggers	Actions Conditions Settings	
When you create a	task, you must specify the action that will occur when your task starts.	
		asks
Action	Details	TY IV
Start a program	"C:\Program Files (x86)\Produmex\Produmex Scan\Client\BXMobileWH9	exe" infiguration
		· ·
		*
		2
New	Edit Delete	-
INCW	Delete	
	ОК	Cancel

5. Scanning Configurations

On most systems scanning settings are assigned to profiles. By default, the settings of the default profile are applied, but it is possible to create specific profiles for applications. Profile handling may differ based on the device.

Set the following scanning configurations for the profile you would like to use:

- 1. Set the code type to **NONE**.
- 2. Set to **send TAB** after the barcode data.

Configuration steps may differ based on the device and the Android version. This documentation includes the configuration steps for the following:

- Honeywell Dolphin 75e Android 6.0.1.
- Zebra MC9200 Android 4.4.4.

5.1. Example 1: Honeywell Dolphin 75e - Android 6.0.1

1. Open Android Settings. 2. From the Honeywell settings select Scanning.

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3. Select Internal Scanner and select the profile you would like to use from the list of profiles.

← Scanning	← Internal Scanner ↔
Internal Scanner	Default profile Settings apply to apps with no profile

- 4. Tap Data Processing Settings.
- 5. In the *Data Processing Settings* menu set the *Symbology Prefix* to **None**.
- 6. To send the **TAB** key after the barcode data, add '\r' as *Suffix*.

2019/06/27 18:24	55/57		Produmex Scan - Complete Installation Guide
← Default Data Processing Settings	:	← Data Processing Setti : Wedge	← Data Processing Setti : Prefix
Symbology Settings Decode Settings Imager Settings Trigger Settings Notification Settings		Symbology Prefix Image: None Image: Honeywell Image: AIM	Suffix V Suffix Suffix CANCEL OK
		CANCEL Data Editing Plugin Symbology Prefix AIM	Launch Browser

5.2. Example 2: Zebra MC9200 - Android 4.4.4

- 1. Open the DataWedge app.
- 2. Select the profile you would like to use from the list of profiles.

APPS	WIDGETS			DataWedge Profiles
		••		Profile0 (default)
AppGallery	Battery Manager	Bluetooth Pairing Utility	Browser	Launcher
- = + Calculator	Calendar	Clock	DataWedge	DWDemo
Downloads	DWDemo	elemez	CO Email	
(_	

- 3. From the BARCODE INPUT plugin select *Scan params*.
- 4. Select *Code Id Type* and set the code ID type to **NONE**.

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Profile: Profile0 (default)	Scan params	Scan params
Decoders	BARCODE INPUT	Values
	Decoding LED Notification 🛛 🗹	values
Decoder params Setup symbology specific parameters		Code Id Type None 🛛 💿
UPC/EAN params	Code Id Type Code Id Type Aim	Code Id Type Aim
Setup generic UPC/EAN parameters Reader params	Volume Type Notification	Code Id Type Symbol
Setup reader specific parameters	Decode Audio Feedback	Cancel
Scan params	optimized-beep	optimized-beep
Setup scan specific parameters	Decode Feedback I FD Timer	Decode Feedback I FD Timer
Ĵ Ĵ	Ĵ (J	

5. From the KEYSTROKE OUTPUT plugin open *Basic data formatting* and enable the **Send TAB key** setting.

6. Setup for Power Usage

We recommend adjusting the following settings in order to save power usage:

6.1. Sleep Mode

Adjust the sleep mode settings.

6.2. Backlight

Adjust the backlight settings. The configuration steps depend on the device.

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