Licensing System

1. Request a Produmex license

For more information about requiring a license please see: Requesting a Produmex License key

2. Importing 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:



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					
Workflow					

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	lumex → Licenses	✓ C Search	n BX	Q
Organize 🔻 🛛 N	lew folder			≣≕ ▼ 🔲	
🔆 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:				~
			(Open Cano	:el

3. Allocating Licenses

3.1. Produmex Add-On

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		Termina	5	Components				
Users			Des	ription			Allocated	Number Left	
AlertSvc		-	Pro	lumex N	Manufacturing	Professional	~		2
B1i									
manager									
Support									
Workflow									
		Ψ.							

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.

3.2. 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.



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.

4. Required and optional licenses for a Produmex Manufacturing installation

4.1. 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 PDC devices are created by the same user.

It is possible to check the employee who created the document with Produmex PDC. Check the production order number in the remarks field. Open the PDC Bookings Administration form and filter the list based on the production order. The *Code* of the PDC booking is the *Ref 2*.

10																		
Syster ID ification Code : Center ation Code Code						© Pr. 0 Pr. 0 © Pr. 0	Ord. No From Ord. No To Ord. Op. ID To	4	1	TEMOS	° 04/27/17 ° 04/27/17	Primary Primar	Date, Time From Date, Time To Date, Time To Errors Only Hide Undone					
ode Posting Code 0001005 tart Job 0001009 Completed Job	Posting Date 04/24/17 04/24/17	Posting Time 15:48 15:51	Inv. Proc. State Processed Processed	04/24/17 04/24/17	Inv. Proc. Time C 15:50 15:52	empl. Qty. 8 0.000 1.000	lej. Qty. Mach. Dura 0.000 0.000	tion Pers. Duration 0.000 0, 4.000 4,	Main Product Co 000 Control ITEMOS 000 Control IT	de Pr.Ord.No Pr.	Ord.Op.ID Er 00000384	np. ID Emp. Name 1 Doe, John 1 Doe, John	Dp. Code Work Cer oPAS ⇒ wAS oPAS ⇒ wAS	ter Bin Location Name	Comment Needs Ap	pproval Is Approve	d Is Completed Is Rejec	ted Is Undone
Mat ID 1000 1382	Pr.Ord.Op.ID 00000384		Mat.	Code TEM01		Mat.Nam No Batch	no serial no BBD manual	UOM	Mat.Type Material			Used Qty.	Ŀ	Bin Location Name				
					Ref. 2		BXP00001005		Prod. Type		Compl. Qty	6		Rej. Qty.		Bin Location Name		
©ontents Attac	is No. Row ary 1 ary 2	Type Item N Item ⇔ ITE Item ⇔ ITE	lo. Item D M01 No Bat M10 Batch r	Description C tch no serial no BBD number + 2ND Batcl	uantity Whee 1 ⇔ 02 2 ⇔ 02	Bin L I	tem Cost											

4.2. Add-on licenses

An add-on type license is required in order to run the Produmex Manufacturing add-on in SAP Business One. The number of required licenses depends on the number of the users. Produmex offers two add-on license types for running the Produmex Manufacturing add-on that differ in the range of the available functions:

- **Produmex Manufacturing Professional**: Users with the Produmex Manufacturing Professional license have access to every Produmex Manufacturing function.
- **Produmex Manufacturing Limited**: Users with the Produmex Manufacturing Limited license have access to limited functionality.

For more information about the available functionalities please see: License Comparison Chart

In order to work with the Produmex Manufacturing add-on properly, an SBO Limited Logistic license is also needed for the user as of SAP Business One 9.3 PL02. However, to use the MRP function, an SBO Professional license is required.

4.3. Terminal licenses

Additional terminal licenses are needed in order to use the functions that are available on the terminals. Terminals have concurrent licensing meaning that the number of required licenses depends on the number of devices that are used concurrently.

Produmex offers the following terminal licenses to extend the Produmex Manufacturing add-on function:

- **Produmex PDC**: Terminal type license that is needed to use the Production Data Collection function.
- Produmex QC: Terminal type license that is needed to use the Produmex QC function.
- Produmex PTM: Terminal type license that is needed to use the Personal Time Management

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function.

Please note: A Produmex Manufacturing Professional license is needed in order to set up master data, create BoMs, production orders etc. properly for the terminal functions.

Produmex Manufacturing Installation Guide

This document describes how to install Produmex Manufacturing, and how to troubleshoot installation problems. Produmex Manufacturing consists of the following components:

- Produmex Manufacturing add-on
- Produmex Service Broker
- Produmex Service Manager
- PDC Processor
- Produmex PDC Client



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
- 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.

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
- Adobe Flash Player

*For the integrated use of Produmex Manufacturing and Produmex WMS, .NET 4.6.2. framework is required.

2. Installing Produmex Manufacturing Add-on

2.1. Extracting the archives

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

- BXManufacturingAddOnSetup.ard
- BXManufacturingAddOnSetup.exe

2.2. Registering the Add-On

In SAP Business One, open the Add-On Administration window (Main menu > Administration > Add-Ons > Add-On Administration). Click on 'Register Add-On' button. Last update: 2018/03/09 implementation:manufacturing:completeinstallguide http://wiki.produmex.name/doku.php?id=implementation:manufacturing:completeinstallguide 13:27

	Company Preferences	<u>U</u> se	r Preferenc	es	L									_
Vail	able Add-Ons					Compa	ny-Assigned Add-	Ons					1.781	
D	Add-On Name	Version	Platform	4		Order	Add-On Name	Version	Default Group	Force Install	Active	Platform	-	
	Screen Painter	920.140.00	×86	-									-	
	Datev	920.140.00	×86											
	EFM Format Definition	920.140.00	×86											
	Outlook_Integration	920.140.00	×86											
	Payment	920.140.00	×86											
7	Produmex Scan	17.05.2200	(×86											
														-
					⊨≞									
														-
				Ŧ									Ŧ	
Rec	ister Add-On Rom	aovo Add-C				Sand	Notification to Lise							

Click on the '...' button beside the Registration Data File and browse the %add-on%.setup.ard file, where the %add-on% is the name of the add-on. SAP Business One will fill out the path to the .exe file automatically.

Add-on Registration	
Installation Information Registration Data File Installation Package	C:\Install\Produmex Manufacturing\BXManufactu C:\Install\Produmex Manufacturing\BXManufactu
<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	

If you check the box 'Install as Part of Registration', the add-on will be installed right away, if the checkbox is unchecked, you have to restart SBO to start the installation. Click on the 'Ok' button.

2.3. 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 Manufacturing Add-On for SAP Busi 😑 🗆	×
License Agreement Please read the following important information before continuing.	\bigotimes
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	Ŷ
 I accept the agreement 	
○ I do not accept the agreement	
www.produmex.com < Back Next > Ca	ncel

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

Which components should be installed?	Ŕ
Select the components you want to install; clear the components you install. Click Next when you are ready to continue.	do not want to
✓ Produmex Manufacturing Add-On for SAP Business One	86,8 MB
 Deployment Files for Produmex Manufacturing Add-On 	7,2 MB
✓ Install Test Environment Components	11,0 MB
Current selection requires at least 105,7 MB of disk space.	

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

🚳 Setup - Produmex Manufacturing /	Add-On for SAP Busi 🗕 🗆 🛛 🛛
Ready to Install Setup is now ready to begin installing Produ Business One on your computer.	mex Manufacturing Add-On for SAP
Click Install to continue with the installation, change any settings.	or click Back if you want to review or
Setup type: Custom Installation Selected components: Produmex Manufacturing Add-On for S Deployment Files for Produmex Manufa Install Test Environment Components	AP Business One acturing Add-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.



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.

2.4. Activating the Add-on

You can see now the Produmex 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.

9	Company Preferences	Use	r Preferenc	es	1_									
vaila	able Add-Ons					Compa	ny-Assigned Add-Ons							
D	Add-On Name	Version	Platform	7		Order	Add-On Name	Version	Default Group	Force Install	Active	P	7	
	Screen Painter	920.140.00.	x86	-]	2	Produmex AddOnLoader	6.3.1.16	Manual 🔹 🔻		✓	×86	-	
	Datev	920.140.00.	x86			3	Produmex Manufacturing	17.05.310	Manual 🔹 🔻		~	×86		
	EFM Format Definition	920.140.00.	x86						Manual					
	Outlook_Integration	920.140.00.	x86						Automatic					
	Payment	920.140.00.	×86						Mandatory					
7	Produmex Scan	17.05.22000	×86		∎				Disabled					-
														-
					⊨≞									
														-
													-	
				-		•						Þ	_	
<u>R</u> eg	ister Add-On Ren	i <u>o</u> ve Add-C)n			Send	Notification to Users							

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

2.5. Starting the Add-on

On the Installed Add-Ons tab, the status of the Produmex add-on is 'Disconnected'.

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Installed	Add-Ons	Pending Add-Ons	ailed Add-Ons fo	r Lightwei	ght Developmer	nt
Add-On ID	Partner Name	Add-On Name	Status	Group	Version	Platform 7
15	Produmex	Produmex Manufacturing	Disconnected	Manual	17.05.08001.1	x86 🔺

To start the add-on, click on the line to select it, and click on the 'Start' button.

If the Default Group of the add-on is set to 'Manual', you have to do this step each time you start SAP Business One.

2.6. Database Setup

A System Message will open up to ask the user whether to upgrade the database or not. Click on the 'Yes' button to upgrade the database.



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.

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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 the database structure has been modified, another System Message is displayed. Click on the 'Yes' button to add the user-defined fields.



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



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

System Message	
Add-on Produmex Manufacturing is disconnected. Please contact: supportteam@produmex.com	?
<u>R</u> estart Add-on	
O Log off the current company	
O <u>C</u> ontinue working without this Add-on	
ОК	

The add-on stops and a warning message is shown. Select the '*Continue working without this Add-on*' option, then restart SAP Business One to apply the changes.

2.7. Running the Add-on

Once SAP Business One has restarted, connect to the current company. Start the add-on in the Add-On Manager as seen above (Main menu > Administration > Add-Ons > Add-On Manager).

The add-on should be running now.

If you want the add-on to start when you launch SAP Business One, you have to go to Administration window (Main menu > Administration > Add-Ons > Add-On Administration), and select 'Automatic' instead of 'Manual'. Click on the 'Update' button to apply the changes.

The Produmex Manufacturing add-on creates its log files at %appdata%\BX\Logs of the user that is assigned to the service. If it runs with local system account, then the log files are at: c:\Windows\SysWOW64\config\systemprofile\AppData\Roaming\BX\Logs (Please note: This is the Windows default setting, it can change based on Windows configuration).

Please note: Fonts will not be registered during a lightweight installation. In order to print barcodes for Produmex Manufacturing reports, install the fonts manually. You can download the fonts from here: Download fonts.

3. Installing Produmex PDC

You need the following components to be able to use Produmex PDC for Production:



- Produmex Manufacturing Add-on installed in SAP Business One on the server
- Produmex Service Broker
- PDC Processor
- Produmex Service Manager
- Produmex PDC Client



3.1. Produmex Manufacturing Add-on

The PDC bookings created by the mobile PDC are stored in the SAP database/schema in user tables. These tables are created by the Produmex Manufacturing add-on which means you cannot use the Produmex PDC until you have installed the add-on and run the database setup. The used production orders also need to have the Produmex Manufacturing Settings in order to be able to user the mobile client.

For more information about installing the Produmex Manufacturing Add-on, please see: Produmex Manufacturing Installation Guide

Not all versions of the Produmex Manufacturing add-on and the Produmex PDC client are compatible with each other. We recommend always using the latest versions of both.

3.2. Produmex Service Broker

Do not run both the 32-bit version and the 64-bit version Service Broker on one environment as

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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:

🐌 🕞 🕕 = I		BX Service Broker			_ □	×
File Home Share View						~ ?
📀 ∋ 🔻 ↑ 🚺 C:\ProgramData	\BX\BX Service Broker		✓ C	Search BX Service B	roker	,c
🔆 Favorites	Name	*	Date modified	Туре	Size	
	퉬 Logs		12/19/2016 12:23	File folder		
🤣 Homegroup	📗 Modules		12/19/2016 12:23	File folder		
🖳 This PC						
🗣 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

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 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					

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.

R Produn	nex Service Broker Config		×				
Service Broker - Service settings Specify which system user and port 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							
	< Back Next >	Cance	el				

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Admin page

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

<u> </u>	Produmex Service Broker Config 🛛 – 🗖 🗙
Service Broker - A Specify a password fo	Imin Page r 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.

R Produmex Se	ervice 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	– 🗆 X					
Service Broker - Database connection Please provide database (SQL) connection parameters						
Database type	HANADB					
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 Next > Cancel					

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	- 1		×				
Service Broker - Default SAP Company Specify the default SAP Company database								
Company	OEC Computers - SBODEMOUS	¥						
SAP username	manager							
SAP password	•••••							
SAP language	SAP language In_English v							
	< Back Next	>	Cance	el				

Summary

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

6	Produmex Service Broker Config 🛛 – 🗖 🗙
Service Broker /erify requested	e - Summary settings, they will be saved when you press finish
Server: PMX_B SQL user: sa Database: SBC SAP user: man	UDTOSH2 DEMOUS ager
	< 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



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

Produm	nex Service Broke	r		Produmex Service Bro	ker			Automatic
Progra	Produmex Servi	ce Broker Pro	perties (Local C	omputer)	×	ort for the Program Compatibility Assistant (Running	Automatic
Qualit	r rougines bern	ce broker i ro	perior (cocar e	mparch	~	deo Experience (qWave) is a networking platf		Manual
Radio	General Log C	n Recovery	Dependencies			irplane Mode Service		Manual
Realtel						ek audio driver.	Running	Automatic
Remot	groups. If a sys	depend on oth tem componen	er services, syste t is stopped, or is	m drivers or load order not running properly.		remote network whenever a program referen		Manual
Remot	dependent ser	vices can be af	fected.	,		al private network (VPN) connections from t		Manual
Remot	Produmex Sen	ice Broker				ation service (RDCS) is responsible for all Rem	Running	Manual
Remot	This convine de	nanda an tha f	- lleuine austan a			teractively to a remote computer. Remote De	Running	Manual
Remot		pends on the r	bilowing system c	omponents.	1	rinters/Drives/Ports for RDP connections	Running	Manual
Remot	⊞ · 😭 SAP	Business One 3	server Tools Servi	ce		ervice Control Manager for COM and DCOM	Running	Automatic
Remot						er versions of Windows, the Remote Procedur		Manual
Remot						odify registry settings on this computer. If thi		Disabled
Retail I						ontrols device activity while the device is in re		Manual
Routin						pusinesses in local area and wide area networ		Disabled
RPC Er					1	entifiers to transport endpoints. If this service	Running	Automatic
SAP Bu	The following :	ystem compon	ents depend on th	nis service:		· Access Server Gatekeeper	Running	Automatic
SAP Bu		Dependencies;	>				Running	Automatic
SAP Bu						/ Service	Running	Automatic
SAP Bu						/ Service Monitor	Running	Automatic
SAP Bu								Manual
SAP Bu						ender Service	Running	Automatic
SAP Bu						/er - http://tomcat.apache.org/	Running	Automatic
SAP Bu						enSSL/1.0.2k	Running	Automatic
SAP Bu			ОК	Cancel Apply			Running	Automatic
SAP BL.		·			_	1		Manual
SAP Bus	siness One Serve	r Tools Servic	e	SAP Business One Ser	ver	Tools Service	Running	Automatic

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



3.4. PDC Processor

The PDC Processor also runs as a service on the same server as the Produmex Service Broker. It processes the created PDC bookings and it creates the necessary material bookings based on the milestone settings in the belonging production order. The bookings are usually issue for production or receipt from production bookings.

If the PDC Processor doesn't run, the PDC bookings are not created therefore the stock data of

materials or products are false. The last run date and time of the PDC Processor can be seen on the PDC tab of Produmex Manufacturing settings.

The last run date and time of the PDC Processor is logged in the [@BXPCONFIG] table on the 'PDCProcessor Last Run Date' [BXPPRCDT] and 'PDCProcessor Last Run Time' [BXPPRCTM] fields. We recommend that you create an SAP alert which checks the last run date, and if it has been more than 5 minutes ago and there are unprocessed PDC entries (U_BXPPrcSt = 0) in the [@BXPPDCBOOKING] table, it triggers an alert to the system administrator to restart the PDC processor service on the server.

The PDC processor 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.

3.5. 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.

3.5.1. 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.

Setup Compan	ies	- 🗆 ×
· + ∕ × ⊠		
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
		.:

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.

Then choose MSSQL version number and enter the SQL Server user name and password. When working on SAP B1 Cloud, add the domain user name and password as well.

S	al Server Configuration	on Manager	
ile Action View Help			
• 🔿 🖄 🗒 📑 🛿			
SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit)	Protocol Name	Status Enabled	
 SQL Server Network Configuration (32bit) SQL Native Client 11.0 Configuration (32bit) SQL Server Network Configuration 	TCP/IP	Disabled Enabled	
SQL Native Client 11.0 Configuration	Protocol IP Addresss	TCP/IP Properties	? ×
	TCP Dynamic Por TCP Port IP8 Active Enabled IP Address TCP Dynamic Por TCP Port IP9 Active Enabled IP Address TCP Dynamic Por TCP Port IP Address TCP Dynamic Por TCP Port	ts 1433 Yes No 169.254.54.221 ts 1433 Ves No :11 ts 1433 ts 1433	
	Active Indicates whether t	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.

• 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.

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

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Setup Companies		– 🗆 X
+ 🗡 🗙 🔽		
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
OK Cancel		

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!*

3.5.2. 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 Compa	nies	- 🗆 ×
+ 🗸 🗙 🛛		
OEC Computers	Server:	OtherServer
SBODEMOUS [manager]	Port	1433
	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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R	Produmex Service Manager	- 🗆 🗙
File Service Help	Select Companies – × Select company databases for service SBODEMOHU SBODEMOUS OK Cancel	Setup Companies

It is possible to start the PDC application with a -database parameter. If multiple databases are configured in the Service Broker, you do not have to start the PDC Configuration every time you would like to switch between databases.

6	Select Companies 🛛 🗖 🗙	- 🗆 ×
File Service Help	Select company databases for service SBODEMOHU SBODEMOUS	Setup Companies
	OK Cancel	

Create shortcuts for the BXPPSMobilePDCClient.WinForm.exe. The file is located in C:\Program Files (x86)\Produmex\Produmex PDC

Add the database with the '-database=' parameter to the end of the file path in the Target field.

PDC 1	8.02 16001 18920		
Client 1	8.02.16001		
	A Mobile PDC	😚 TEST_WMSMF (PI	MX_BUDTOSH2)
Server. 1	8.02.16001.18920 PDC 1 Properties	×	
General Shortc	ut Compatibility Security (Details	
PI	DC 1	3	0
Target type:	Application		
Target location:	Produmex PDC		
Target:	ilePDCClient.WinForm.exe"	-database=TEST_MF htrolling	Workshop Monitor
	"C:\Program Files (x86)\Prod	dumex\Produmex PDC	(F4)
Start in:			
Start in: Shortcut key:	None		
Start in: Shortcut key: Run:	None Normal window	~	

Please note: Make sure that the Produmex Manufacturing add-on is installed on all databases with the same version as the Service Broker.

3.5.3. 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.

		Produmex Service	Manager	- • ×
File Service Help	General Prod Run As User Password Start Mode	Produm lumex Service Broker Local System Auto	nexServiceBr	oker service configuration - × Image: State in the service of the service configuration - × Image: State in the service of the service configuration - × Image: State in the service of the service configuration - × Image: State in the service of the service configuration - × Image: State in the service of the service configuration - × Image: State in the service of the service configuration - × Image: State in the service configuration - - × Image: State in the service configuration - - × Image: State in the service configuration - - - - Image: State in the service configuration -

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	_ 🗆 🛛
	General Produmex Service Broker	
File Service Help	+ × 😣	🚯 Admin Page
	BXManufacturingPDCProcessor 18.02.16001.18920	
ProdumexServiceBroker SBODEMOUS	BXPPSMobilePDCWebAPI 18.02.16001.18920	
	BxServiceBroker.Admin.WebAPI.dll 18.01.00001.18920	
	Produmex Service Broker is running.	
	OK Cancel	

3.5.4. 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.

Last

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<u>Q</u>		Services	_ (
File Action View Help	1			
Services (Local) Servi	ces (Local)			
Produmex	Service Broker	Name		^
Stop the ser Restart the s	vice service	Produmex Service Brok	er Rer Properties (Local Computer)	
Description		General Log On Recovery	Dependencies	
Produmex S	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)\Produmex\ServiceBroker\BxServiceBroker.Console.exe" (or Service Broker (Console) program in the Windows Start menu) and you will see a window like this:

```
2018/05/02 17:37
```

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 Assembly loaded: BxServiceClientLib.WinForm, Version=17.11.30001.18920 🚃
12:21.01 Assembly loaded: Accessibility, Version=4.0.0.0
12:21.01 Assembly loaded: System.Xaml, Version=4.0.0.0
12:21.01 Assembly loaded: System.Runtime.DurableInstancing, Version=4.0.0.0
12:21.01 Assembly loaded: Microsoft.Practices.ServiceLocation, Version=1.0.0.0
12:21.01 Assembly loaded: CrystalDecisions.CrystalReports.Engine, Version=13.0.2
000 - 0
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.

3.6. Produmex PDC Client

The Produmex PDC Client must be installed on the client computer. The installer is an exe file located in the ProdumexManufacturingMobilePDCClientSetup_version number_SBO version_Database server type.32/64 bit version.zip folder. For the time being it is a windows application that uses .NET 4 framework.

Extract the .zip folder, initiate the installation and follow the steps of the Produmex PDC Setup Wizard.

After you have installed it there will be two new programs at All Programs > Produmex:

- Configuration of Produmex PDC
- Produmex PDC.

4. Performing a version update

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 Manufacturing Add-on

The steps of a version upgrade for the Produmex Manufacturing 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. In order to run the database setup, a database backup that was created within an hour is required on an MSSQL environment.

Please note: Before performing an SBO patch level upgrade, remove the foreign keys if there were installed. You can remove the foreign keys by: Tools > Produmex Manufacturing > Produmex Data Management > Remove Foreign Keys.

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.

4.3. Server Module

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

4.4. Produmex PDC Processor

The steps of the version upgrade for the PDC Processor are identical to a new installation.

4.5. Produmex PDC client

The steps of the version upgrade for the PDC Client are identical to a new installation. If you are upgrading from a version higher than 17.09, it is not required to uninstall the current version before starting the upgrade.

5. Adding a new database to an existing installation

1. Assign the Produmex Manufacturing 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 PDC. 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> endin	Pending Add-Ons		Failed Add-Ons for Lightweight Development			
Add-On ID	Add-On Name	Add-On	Version	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



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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:

System Message	
Add-on Produmex Manufacturing is disconnected. Please contact: supportteam@produmex.com	?
<u>R</u> estart Add-on	
O Log off the current company	
O Continue working without this Add-on	
ок	

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:

	\times
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.

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