

# Produmex Scan - Complete Installation Guide

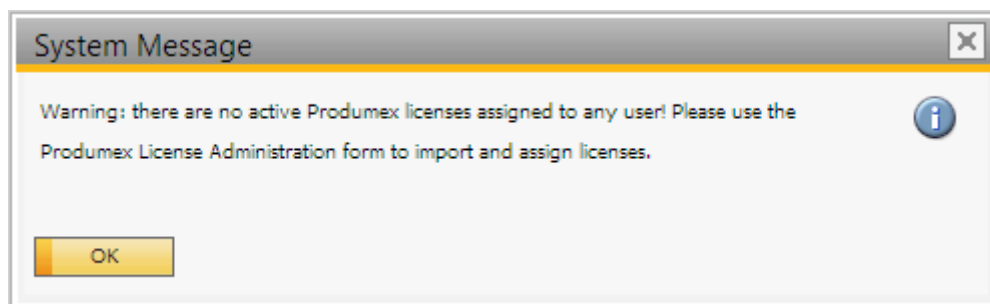
## Licensing System

### 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 add-on, 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.



## 3. Allocating Licenses

### 3.1. 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.

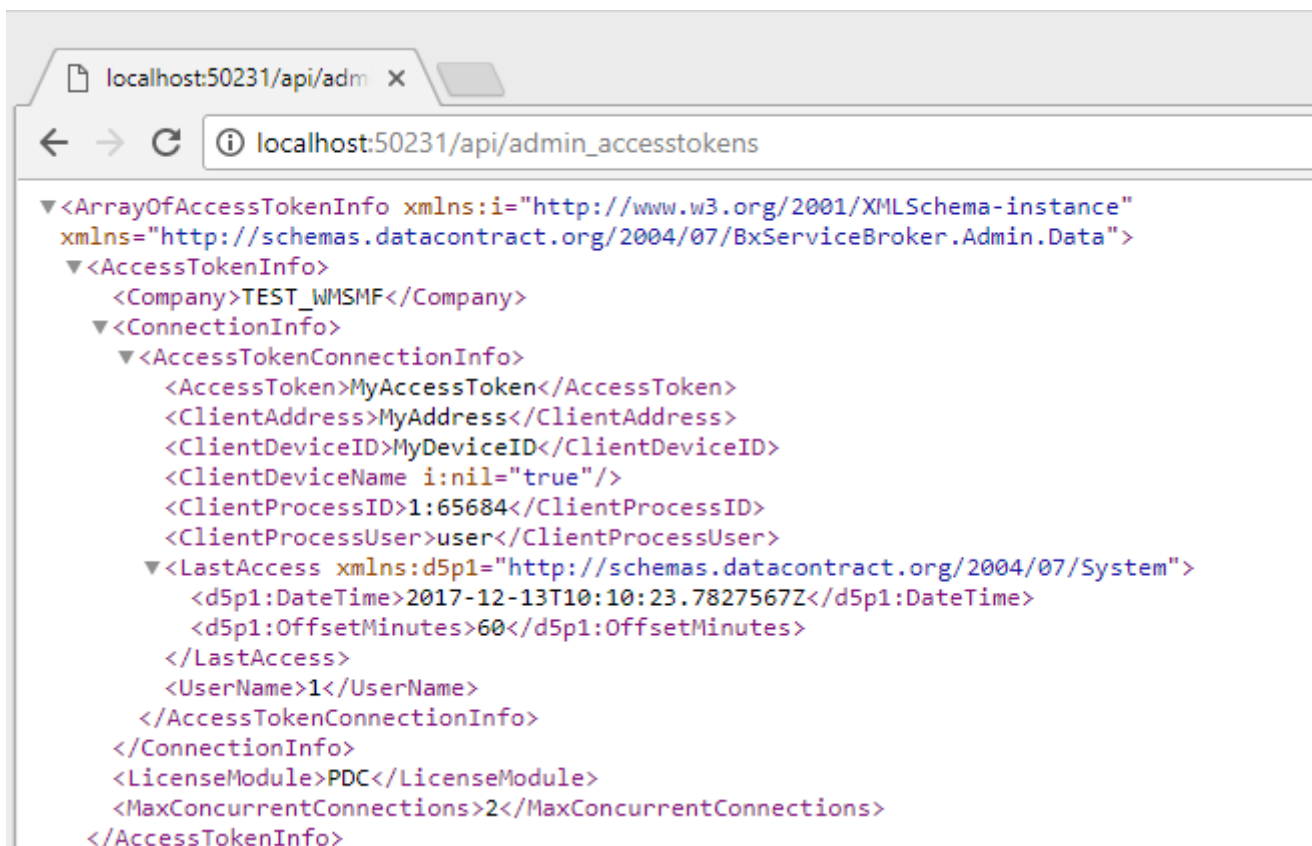
- If there is a free license, the system will allocate it to the terminal.
- If there is no free license, an error message will be displayed.

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.



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 licenses for a Produmex Scan 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 Scan devices are created by the same user.

It is possible to check the employee who created the document with the Produmex Scan device. The Employee No. of the employee is stored in an UDF on the document header.

The screenshot shows the SAP 'Goods Receipt PO' window. The 'General' tab is active. The 'EmployeeID' field is highlighted with a red box and contains the value '1'. Other fields include 'Vendor' (MSLLC), 'Name' (Mega Supplier LLC), 'Status' (Open), 'Posting Date' (12/13/17), 'Due Date' (12/13/17), and 'Document Date' (12/13/17). The 'Contents' tab is also visible, showing a table of items with columns for Item No., Quantity, Unit Price, Disc..., Tax C..., Total (LC), and Bin L....

#	Item No.	Quantity	Unit Price	Disc...	Tax C...	Total (LC)	Bin L...
1	B1000	10		0.000			10
2	S1000	10		0.000			10
3	A1000	10		0.000			10
4	A1000	15		0.000			15
5	B1000	10		0.000			10
6	S1000	10		0.000			10

### 4.2. Produmex Scan add-on

No Produmex license is needed in order to access the Produmex Scan add-on.

The required SBO license depends on the SBO function the user will use to prepare documents for the Produmex application in the office environment, eg. to create pick lists. Please refer to the SAP Business One official licensing documentation for more information which SBO license type is required for your installation.

### 4.3. Produmex Scan device

A terminal type license is needed in order to use the Produmex Scan client application. Since Produmex Scan devices have concurrent licensing, the number of the required licenses depends on the number of devices that are used concurrently.

## 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:

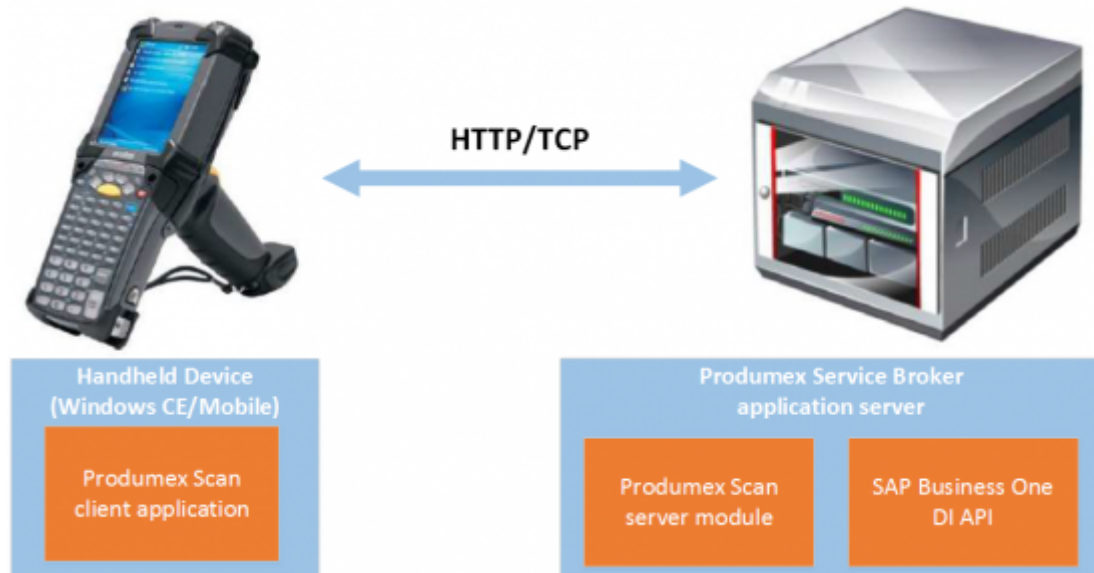
- Windows 2008 R2/Windows 7 or higher
- Administrator rights
- Installation of .NET 4.0 framework or higher
- Installation of SAP DI API (32-bit)
- HANA Client (On HANA environment only)
- Installation of SAP Business One. Make sure that Crystal Reports engine is installed as part of the SBO installation.

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](#)



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).

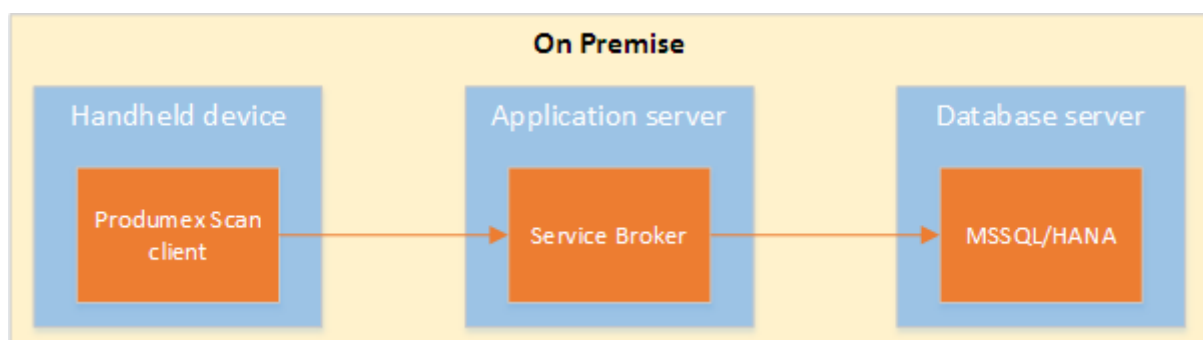
The client application is used to enter the data for the stock movements which is then sent to the Service Broker. The client application can run natively on the mobile device, or on the server and be accessed through remote desktop, depending on the network latency constraints or use case as described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

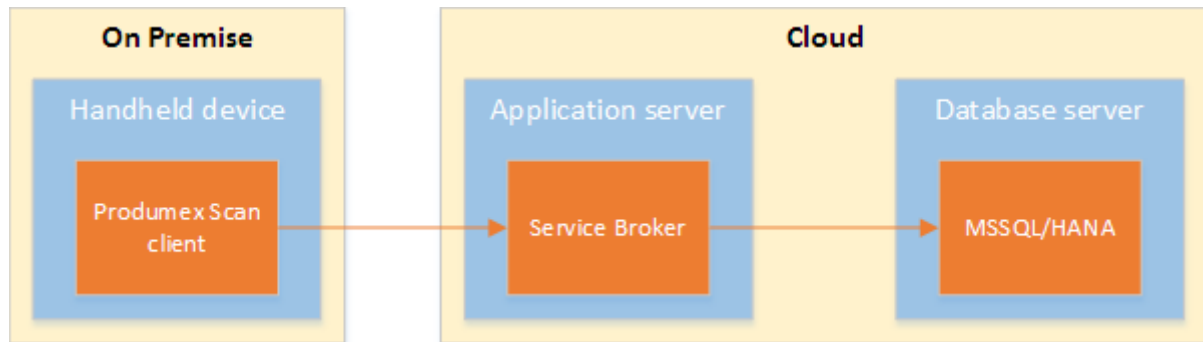
### **Native client**

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:



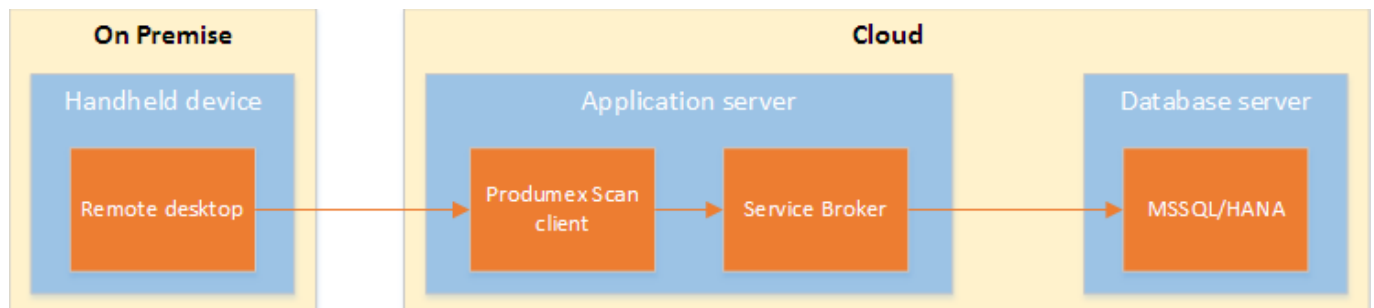


### Remote desktop

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.

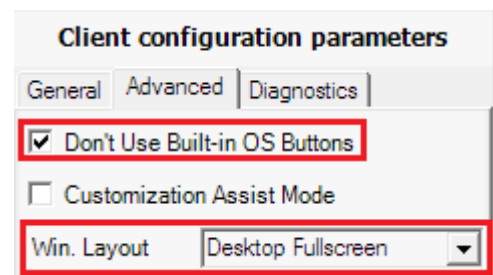
In this case the client application and the Service Broker run on the same server. The application can be reached through a remote desktop application from the handheld device.

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 recommend the following display settings:



- Set the Windows layout to 'Desktop fullscreen'
- Disable the built-in OS buttons by ticking the 'Do not use built-in OS buttons' 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

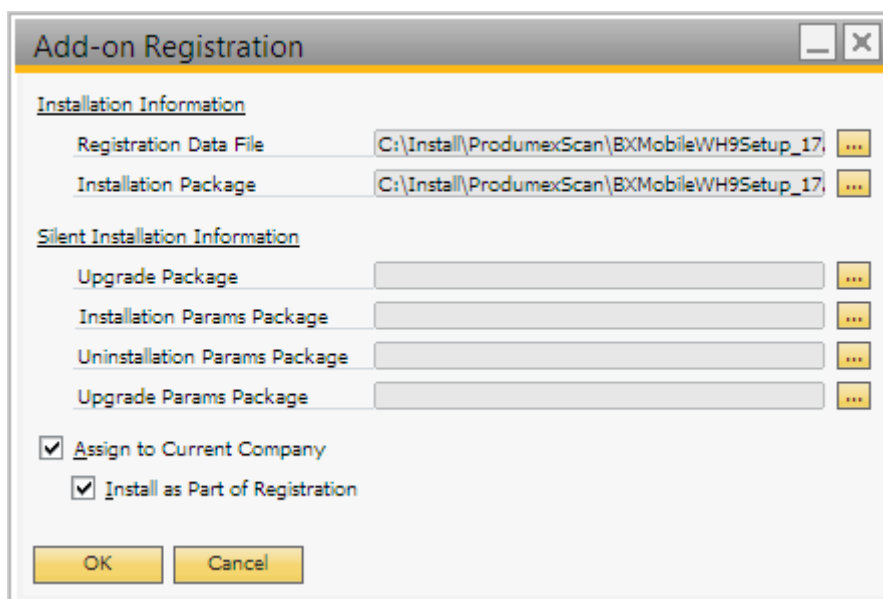
##### 3.1.1.1.1. Registering the Add-On

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.

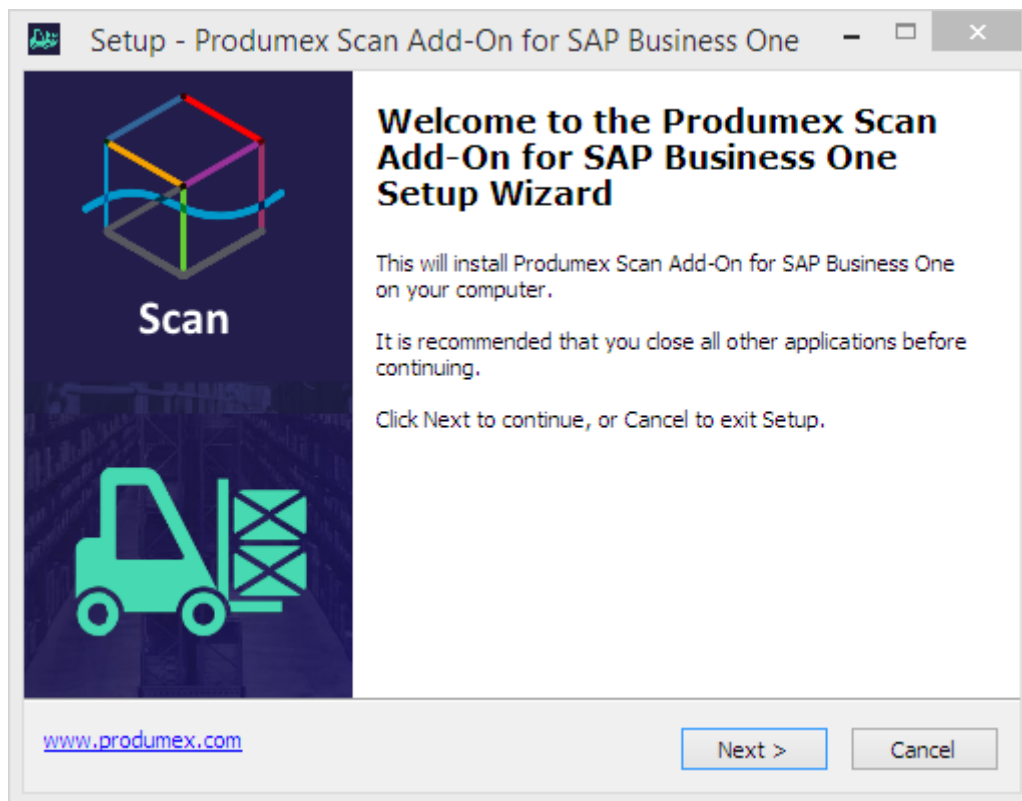




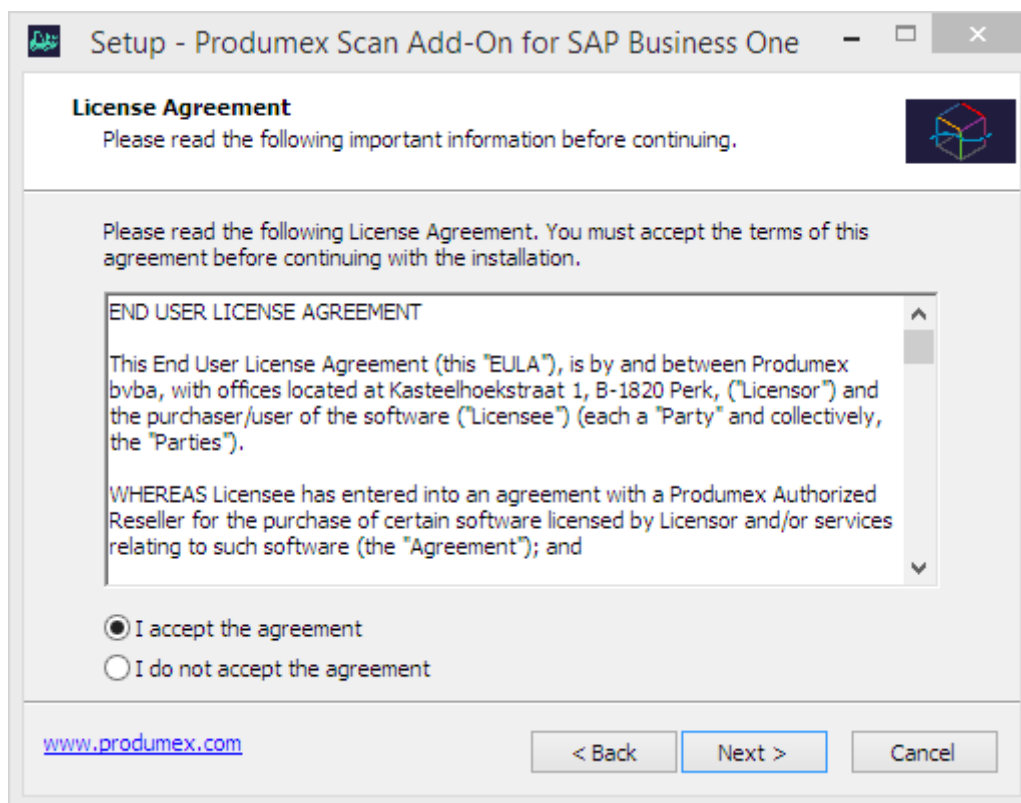
First SAP Business One will register the add-on and then it will start the installation wizard.

#### 3.1.1.1.2. Proceeding with the installation

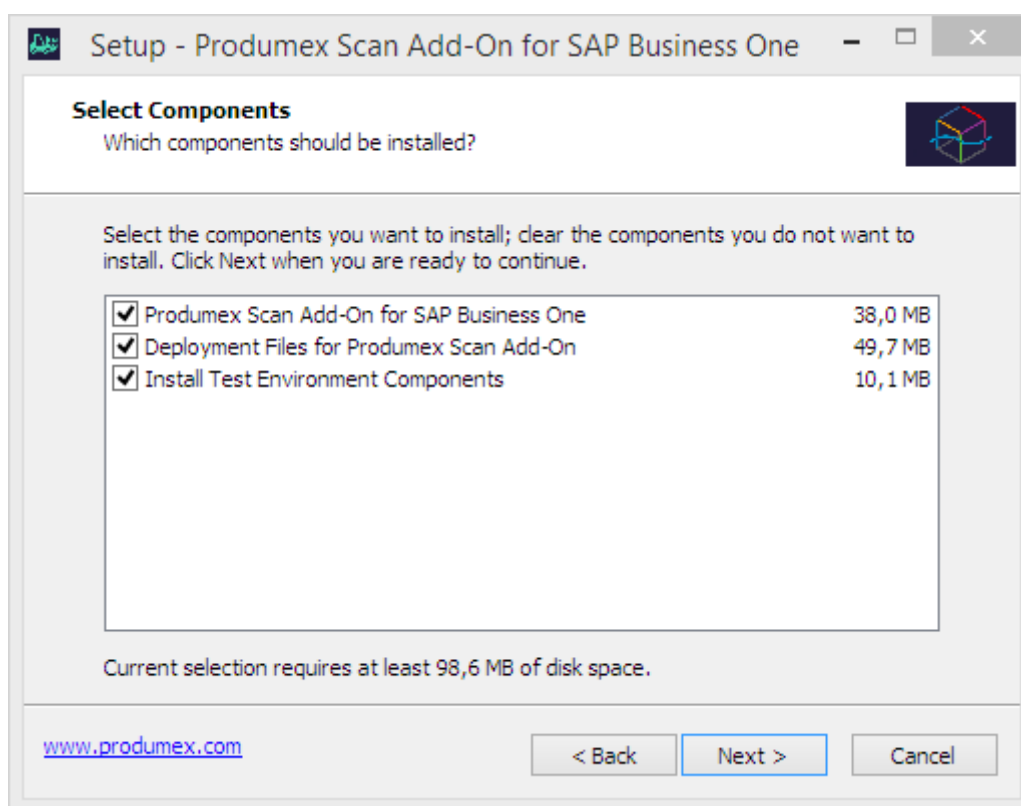
If the 'Install as Part of Registration' checkbox was turned on, the installation will start right away with starting the install wizard. Click on the 'Next' button to start the installation.



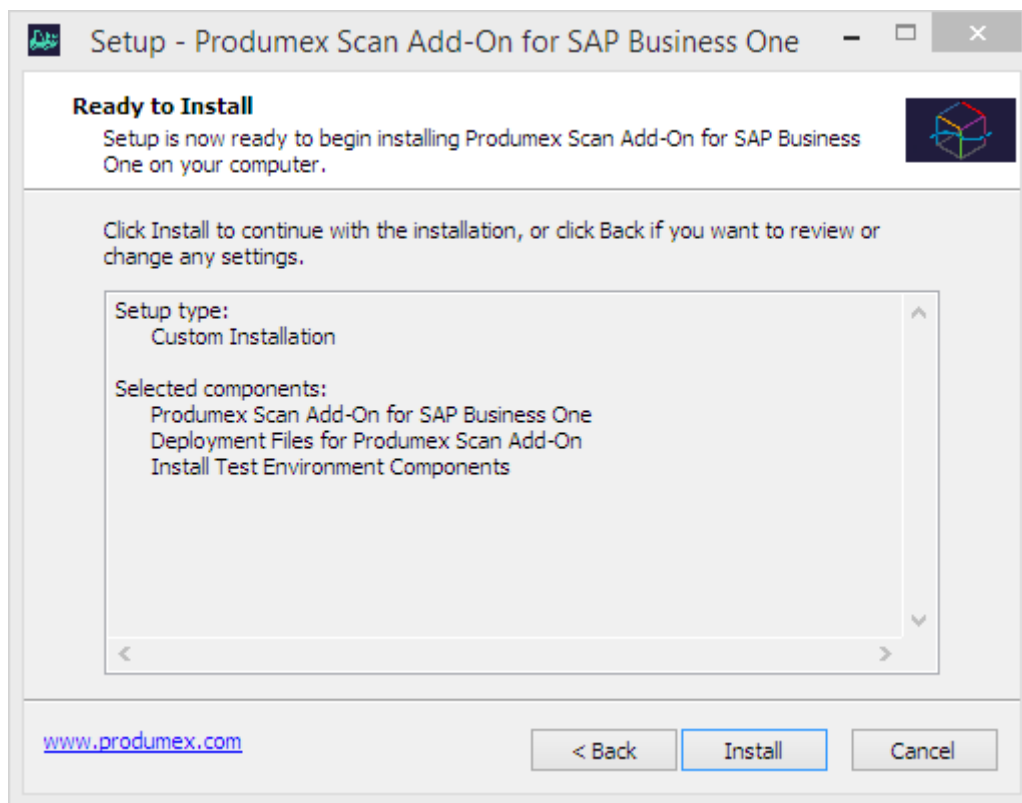
Accept the End-User License Agreement by selecting the '*I accept the agreement*' option, and then click on the 'Next' button.



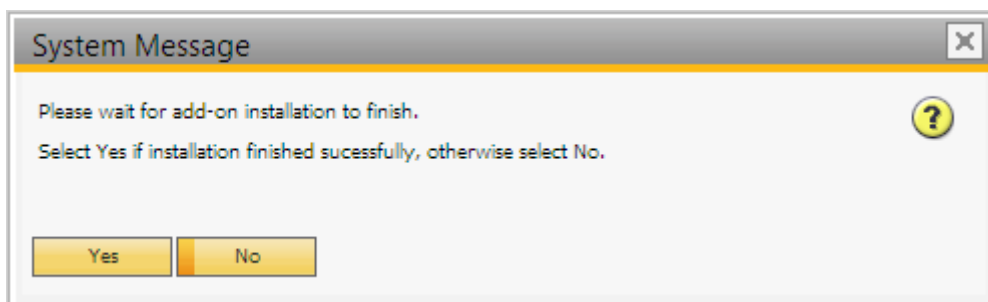
Make sure all components are checked and that there is enough disk space. Click on the 'Next' button.



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



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.

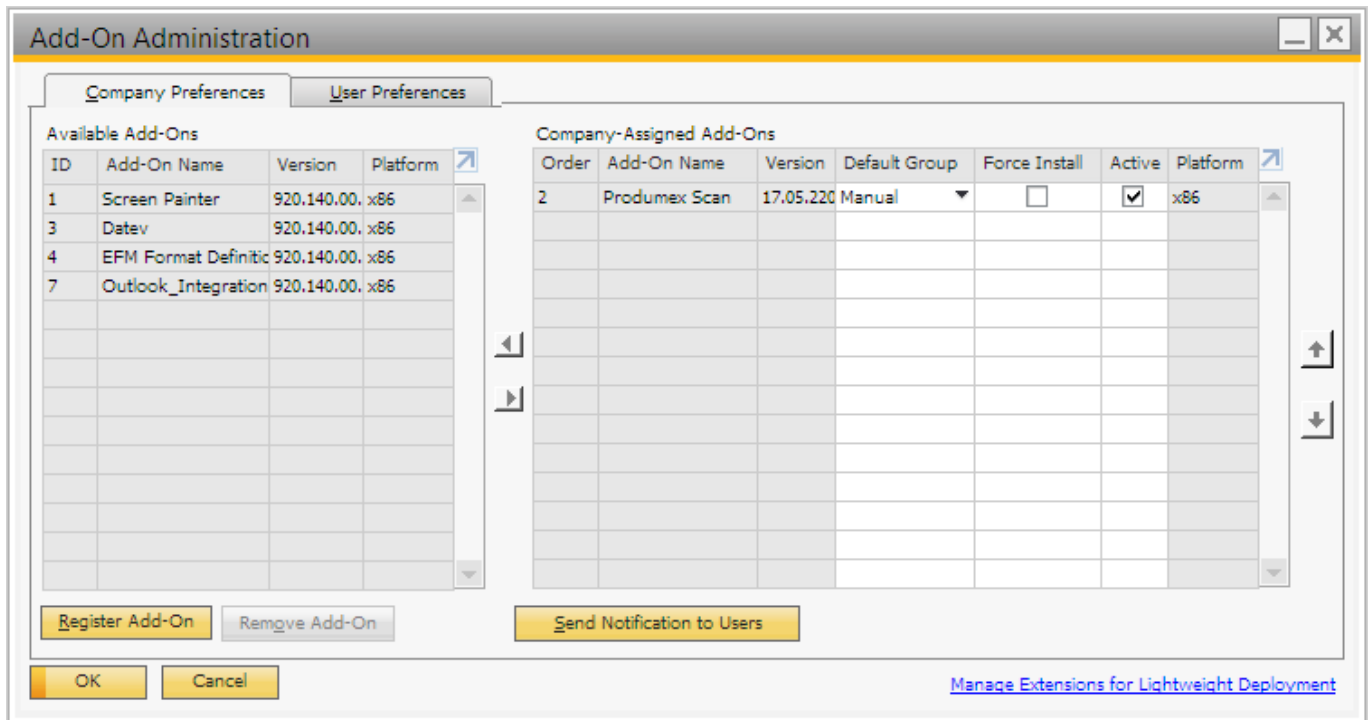
Please note: If there was an error during installation, it will be failed regardless of your answer.

#### 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.



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>_<SBO 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.

**Extensions**

Name	Version	Provider	Type	Platform	Path
Produmex AddOnLoader 7	18.2.1.5	Produmex	Add-On (...)	Any CPU	\\DEVCCSRV.prod.be\Shared\Extensions\Repository\Produmex\Produmex AddOnLoader 7\18.2.1.5
B1 Usability Package	2018.05.00.0	Boyum S...	Add-On (...)	Any CPU	\\DEVCCSRV.prod.be\Shared\Extensions\Repository\Boyum Solutions\B1 Usability Package\2018...
<b>Produmex Scan</b>	<b>18.2.10018.20...</b>	<b>Produmex</b>	<b>Add-On (...)</b>	<b>Any CPU</b>	<b>\\DEVCCSRV.prod.be\Shared\Extensions\Repository\Produmex\Produmex Scan\18.1.10018.20930</b>
Produmex Manufacturing	18.1.10018.20...	Produmex	Add-On (...)	Any CPU	\\DEVCCSRV.prod.be\Shared\Extensions\Repository\Produmex\Produmex Manufacturing\18.1.10...
SBOScript	930.120.02	SAP	Add-On	32 bit	

**Confirmation**

Do you want to synchronize all extensions to repository?

Yes No

**Extension Details**

**Configuration** Deployed to Service Unit Assigned to Tenant Compatibility Properties

Name: Produmex Scan Type: Add-On (Lightweight)  
Version: 18.2.10018.20930 Provider: Produmex

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.

**Synchronization Report**

Synchronization Report

Name	Provider	Type	Version	Mode	Time	Status
Produmex Scan	Produmex	Add...	18.2.10018.20...	Manual	5/2...	Successful

Close

### 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.

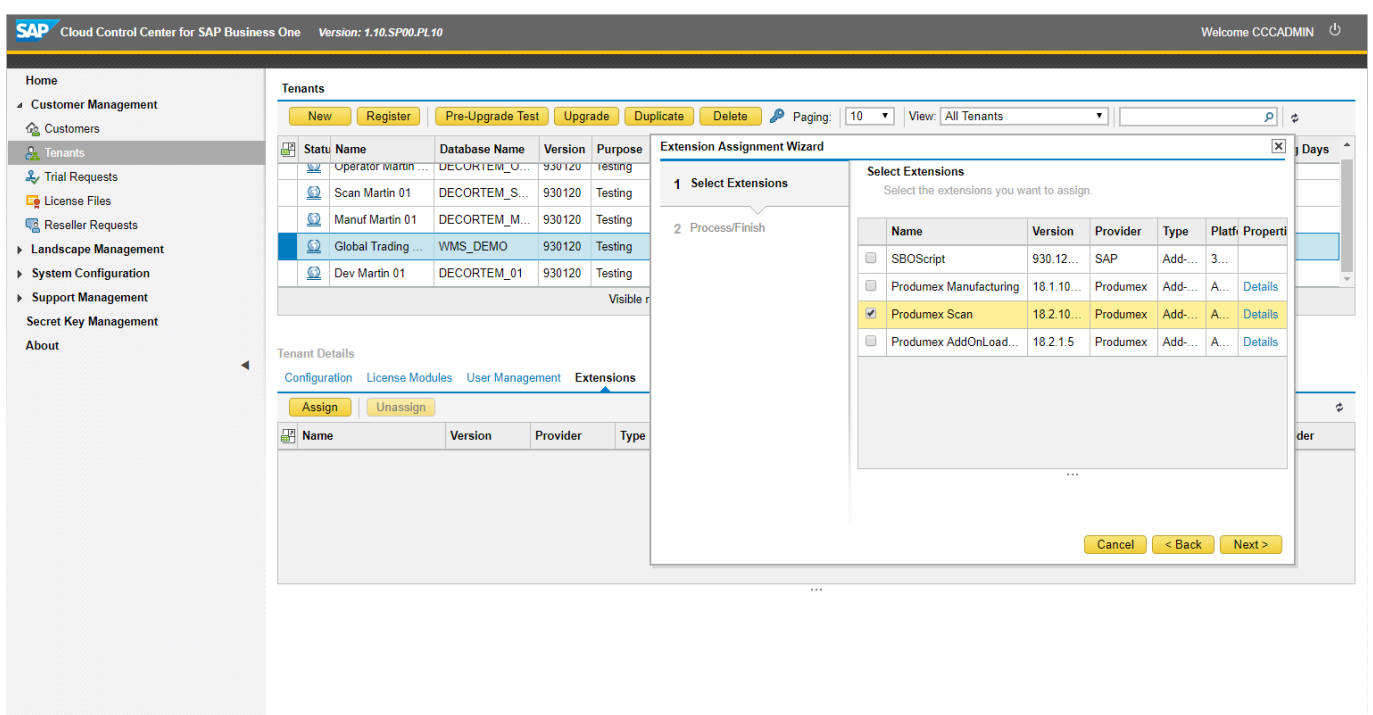
The screenshot shows the SAP Cloud Control Center interface. On the left is a navigation menu with options like Home, Customer Management, Landscape Management, Service Units, License Servers, Database Instances, Common Databases, Storage, Presentation Servers, Integration Components, Mail Server, Job Services, Extensions, SLD Agents, Task History, Analytics Services, App Frameworks, Logical Machines, Browser Access Servers, Service Layers, Mobile Services, Affinity Groups, System Configuration, Support Management, Secret Key Management, and About. The main area displays the 'Service Units' grid with columns for Monitoring, Status, Name, Purpose, Version, and Deployment. Below this is the 'Service Unit Details' section with tabs for Configuration, Software Components, Storage, Tenants, Monitoring, and Extensions. The 'Extensions' tab is active, showing a 'Deploy' button. An 'Extension Deployment Wizard' dialog is open, showing '1 Select Extensions' and '2 Process/Finish' steps. The 'Select Extensions' step shows a table with columns: Name, Version, Provider, Type, Platform, and Properties. The table lists 'B1 Usability Package' and 'Produmex Scan' (which is selected with a checkmark). The 'Produmex Scan' row shows Version 18.2.1.5, Provider Produmex, Type Add-On, Platform Any, and Properties Any CPU, 1, Installed. The wizard has 'Cancel', '< Back', and 'Next >' buttons.

### 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.

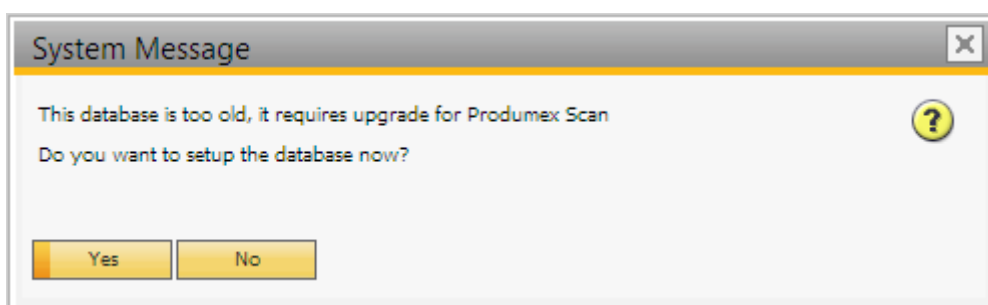
Go to Customer Management > Tenants. Select the tenant on the *Tenants* grid. On the *Tenant Details* grid navigate to the *Extensions* tab, then click on the 'Assign' button. Follow the steps of the Extension Assignment Wizard. In the *Select Extensions* step select the Produmex Scan add-on, then finish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



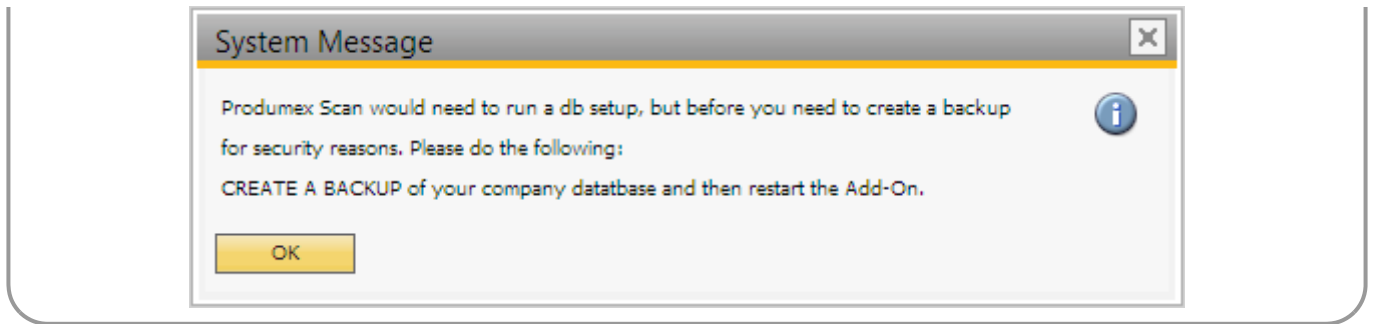
### 3.1.2. Database Setup

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.

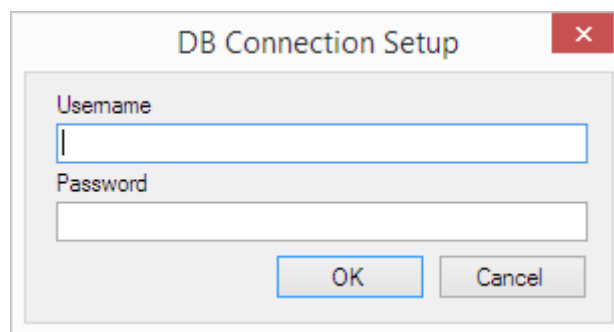
To be able to run the DBSetup the SAP user must be superuser.



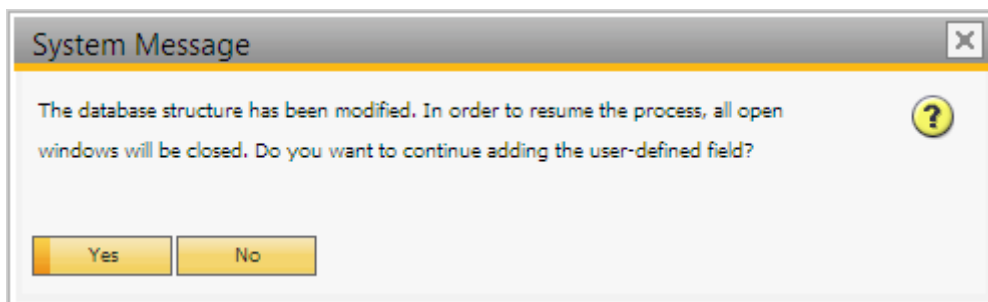
Please note: On MSSQL, the system will check whether there is a backup created within an hour. If no such backup is detected, a warning will be shown and the add-on exists. Create a backup of the database then restart the add-on.



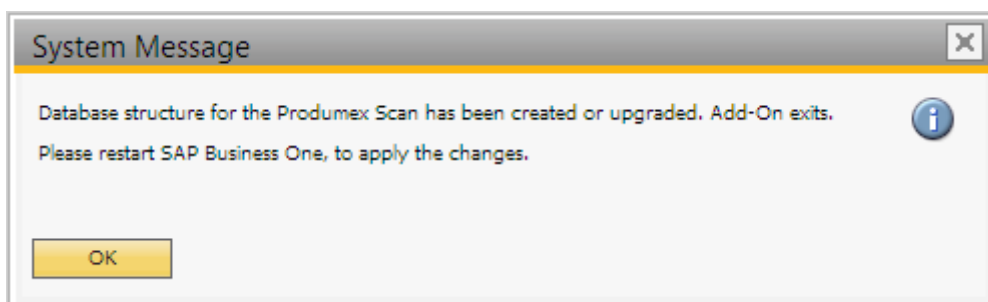
On the next screen set up the database connection. Enter the database user name and the database password. After the DB Connection is set up, the system will upgrade the database.



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.

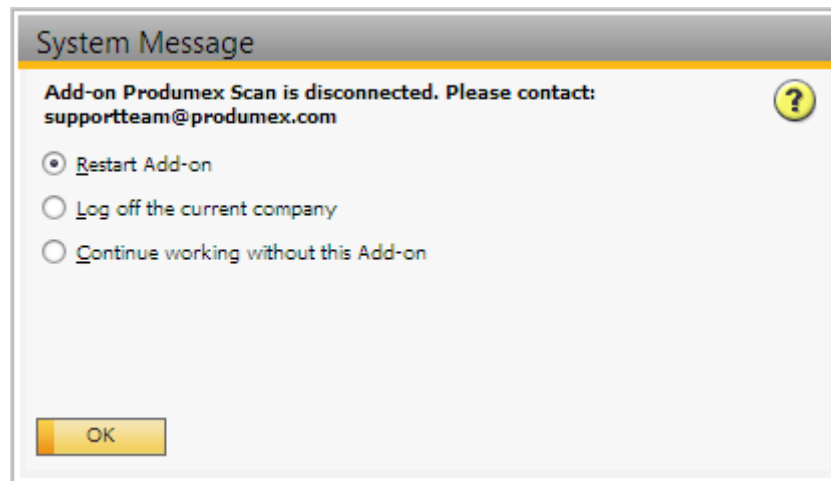


A confirmation is displayed that the database structure have been modified. Acknowledge the message.



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

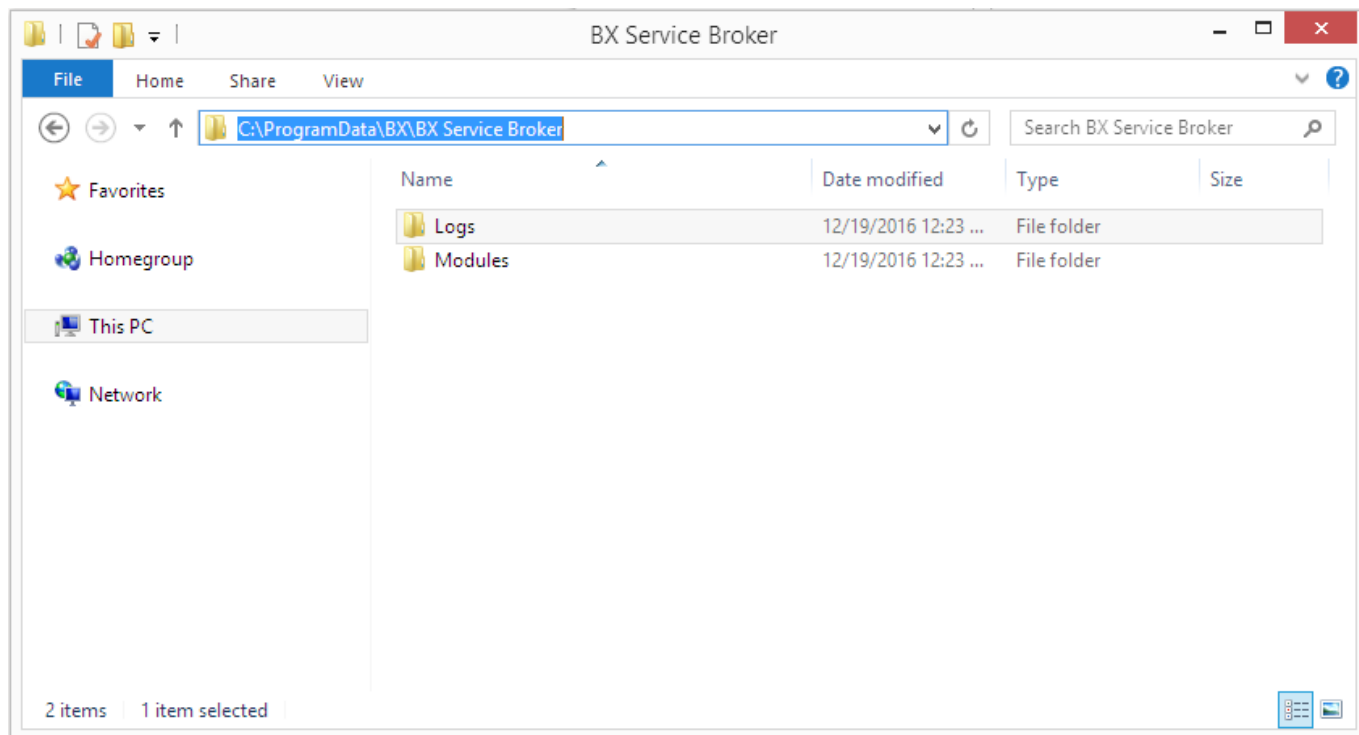
Do not run both the 32-bit version and the 64-bit version Service Broker on one environment as they conflict with each other. Only one service broker instance should be installed on a server at any time.

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.

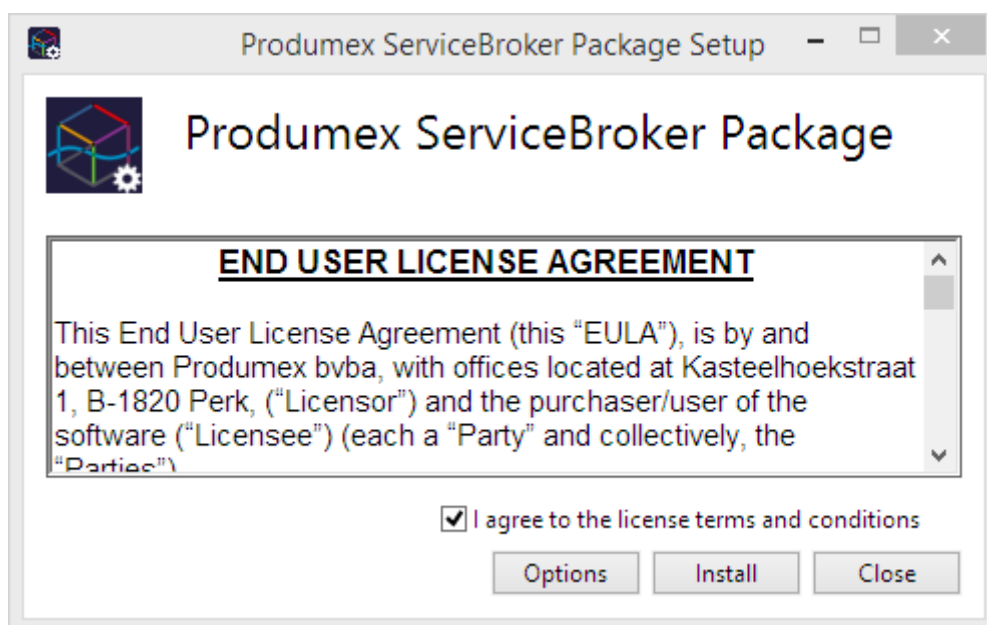
The service broker creates its log files at *C:\ProgramData\BX\BX Service Broker\Logs*. The ProgramData folder is hidden, you have to either enable 'Show hidden folders and files' in Windows Settings or you have to enter it directly to the address bar in Windows Explorer:



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.



## Service settings

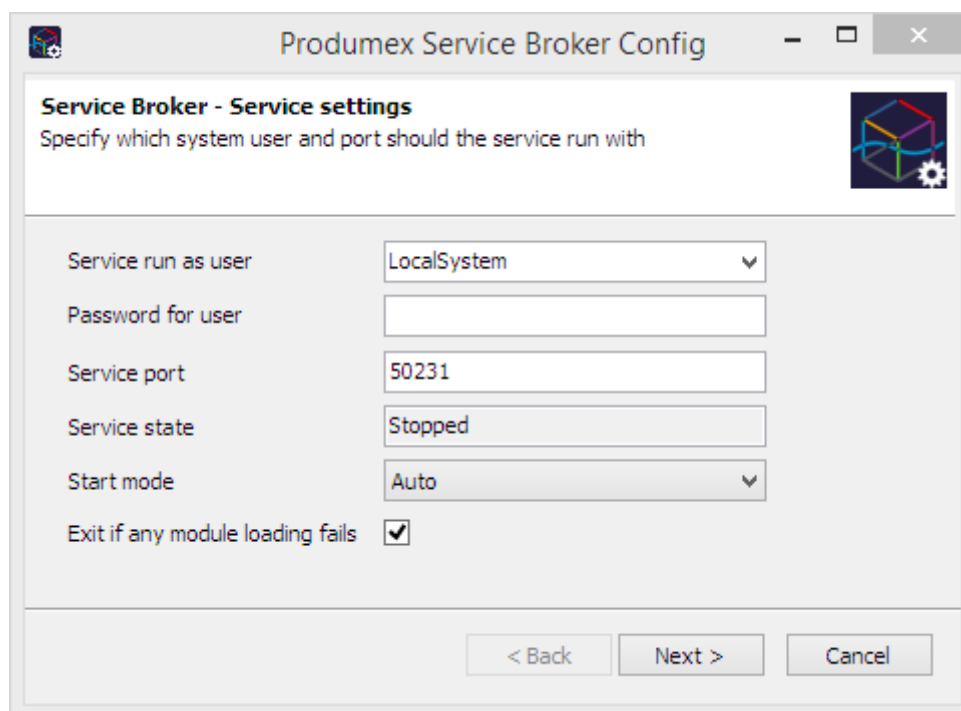
When you start the installation, the Produmex Service Broker installer will request information based on the system and will set up the service based on the information you enter.

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*.



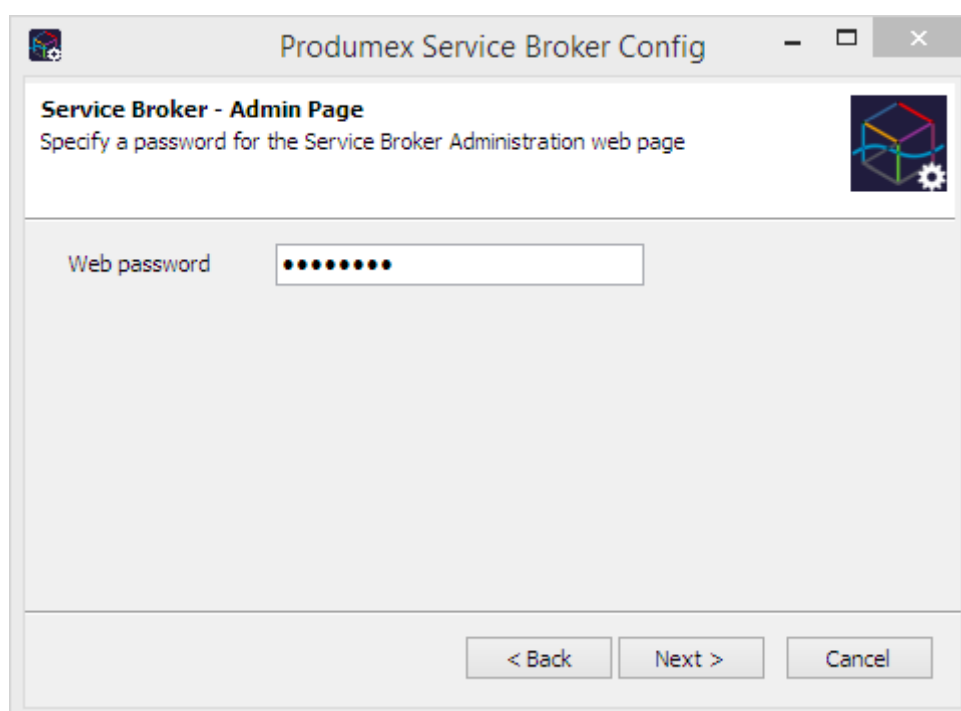
The screenshot shows a Windows-style configuration window titled "Produmex Service Broker Config". The active tab is "Service Broker - Service settings", which includes the instruction "Specify which system user and port should the service run with". The configuration fields are as follows:

Field	Value
Service run as user	LocalSystem
Password for user	
Service port	50231
Service state	Stopped
Start mode	Auto
Exit if any module loading fails	<input checked="" type="checkbox"/>

At the bottom of the window are three buttons: "< Back", "Next >", and "Cancel".

## Admin page

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



The screenshot shows the same "Produmex Service Broker Config" window, but the active tab is "Service Broker - Admin Page", which includes the instruction "Specify a password for the Service Broker Administration web page". The configuration field is as follows:

Field	Value
Web password	••••••••

At the bottom of the window are three buttons: "< Back", "Next >", and "Cancel".

## Database connection

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

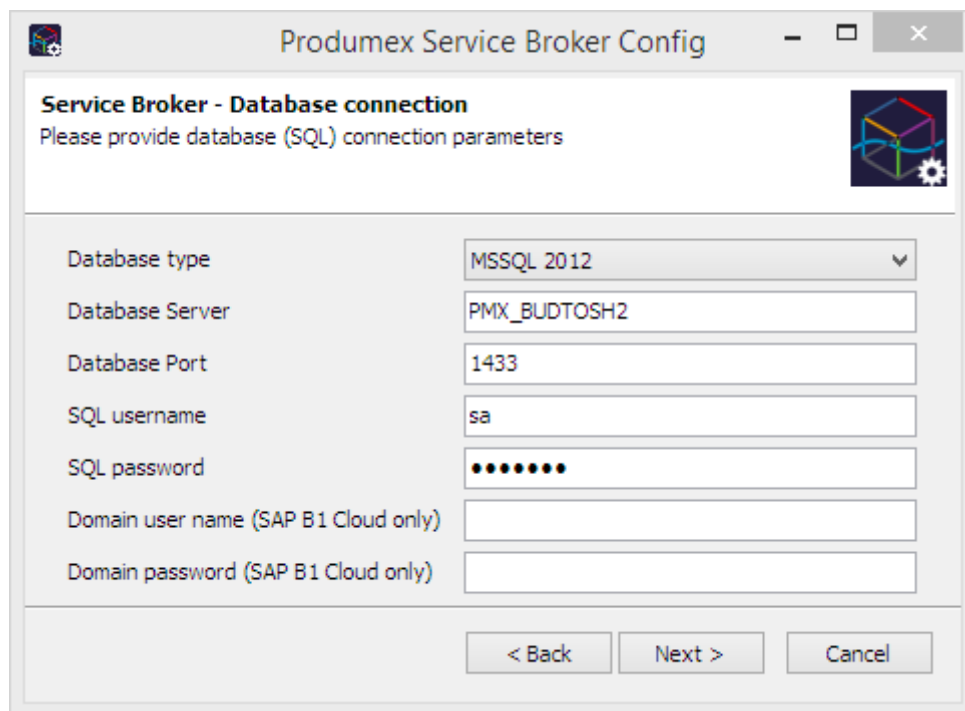
Select the database type from the dropdown menu.

### • **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

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.

**Produmex Service Broker Config**

**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.

**Produmex Service Broker Config**

**Service Broker - Default SAP Company**  
Specify the default SAP Company database

Company: OEC Computers - SBO DEMOUS

SAP username: manager

SAP password: .....

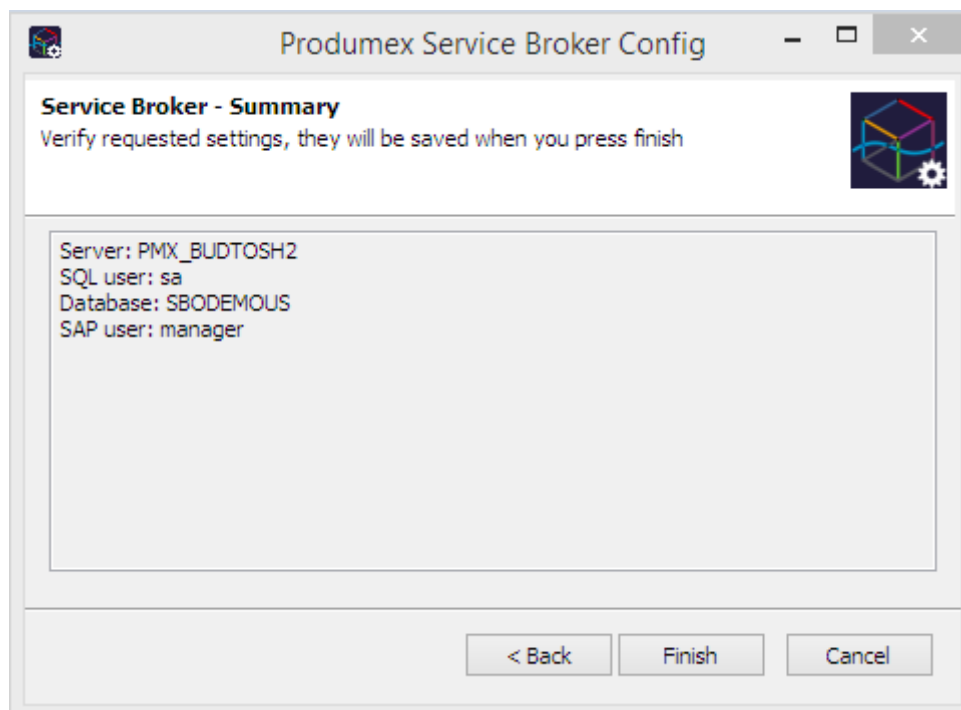
SAP language: In\_English

< 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.



### Configure dependency from the SBO Server Tools service on an MSSQL system

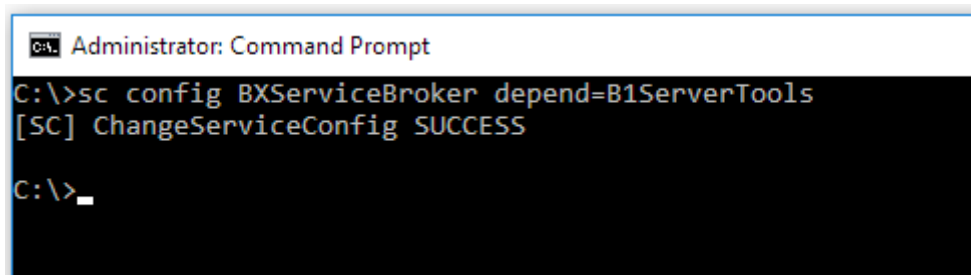
If the server where Produmex Service Broker runs needs to be restarted frequently, we advise to configure dependency from the SBO Server Tools service.

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

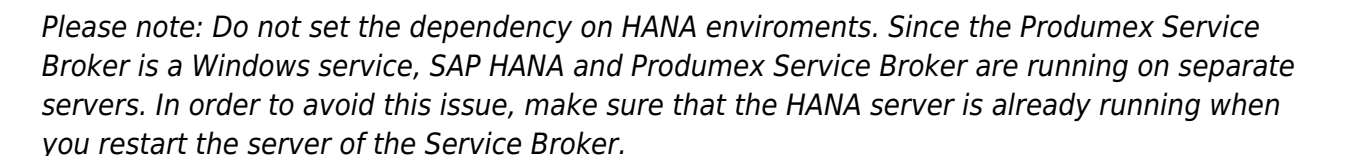
If the Produmex Service Broker is dependent from the SBO Server Tools service, it will only start after the SBO Server Tools service is started, therefore it will be able to connect to the SAP environment.

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

```
C:\>sc config BXServiceBroker depend=B1ServerTools
```

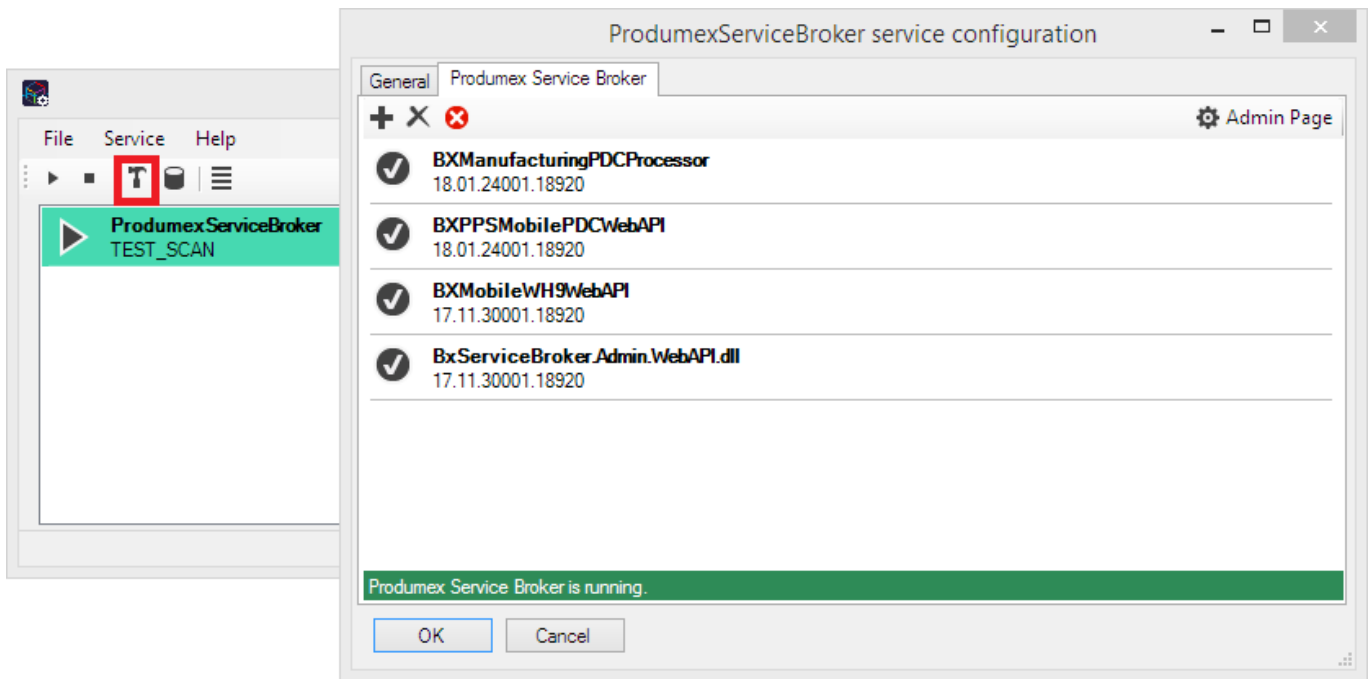


On the Dependencies tab of the Produmex Service Broker properties you can see that the dependency is successfully added:



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. 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

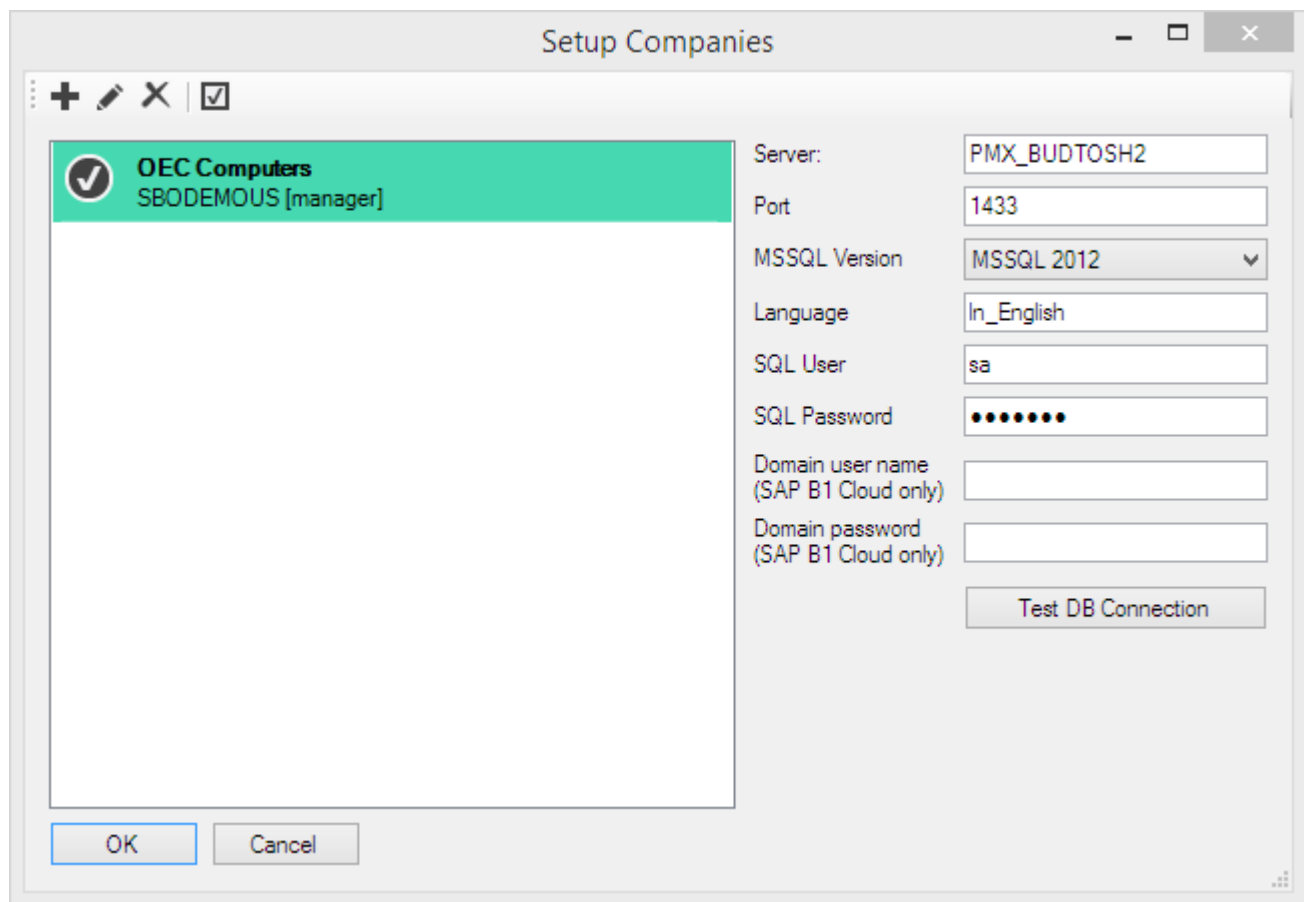
Click on the 'Setup Companies' button. On the opening window you have to enter the connection data to your SAP company database/schema.

##### • 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.

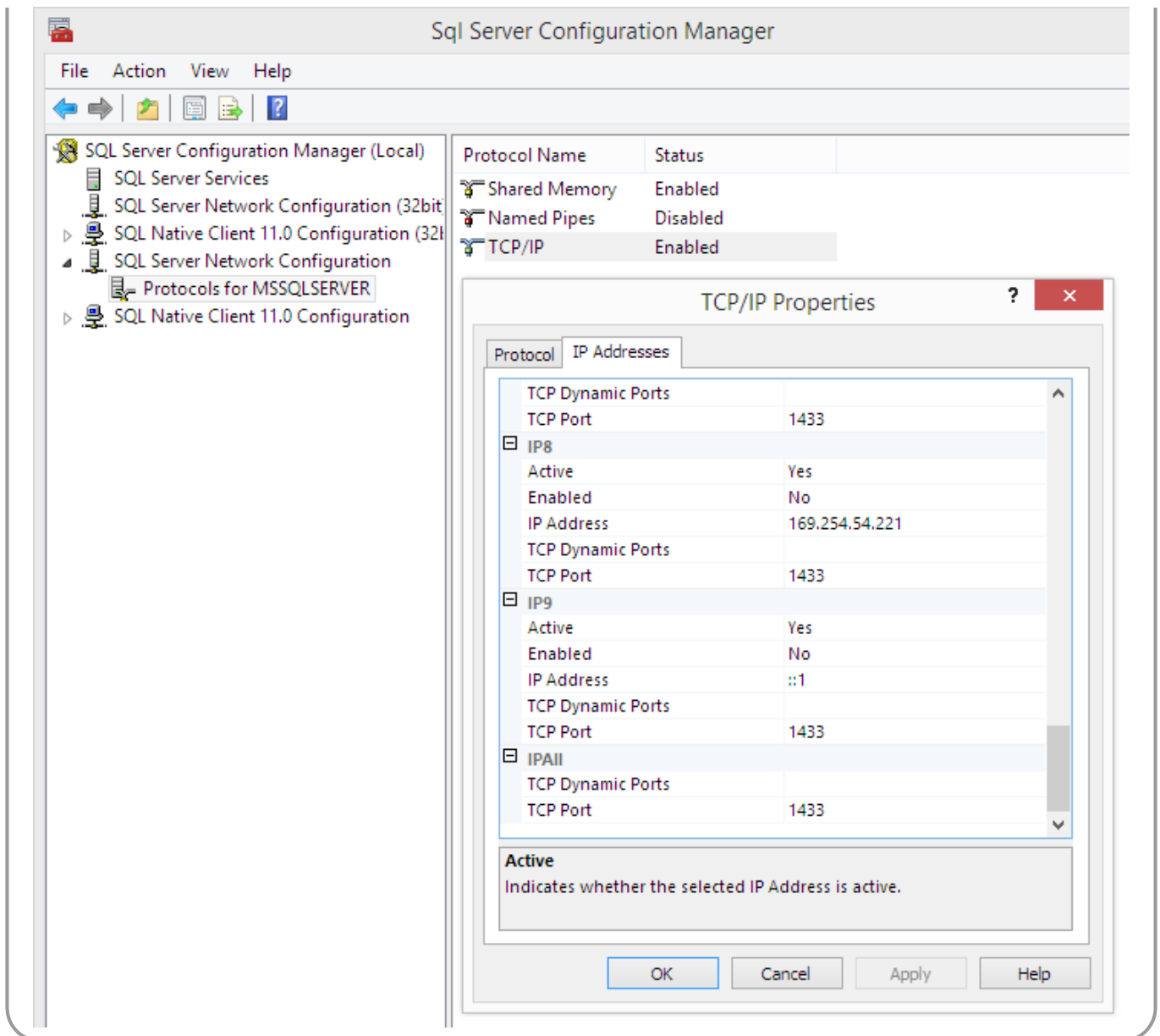
Then choose MSSQL version number and enter the SQL Server user name and password.





### 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.



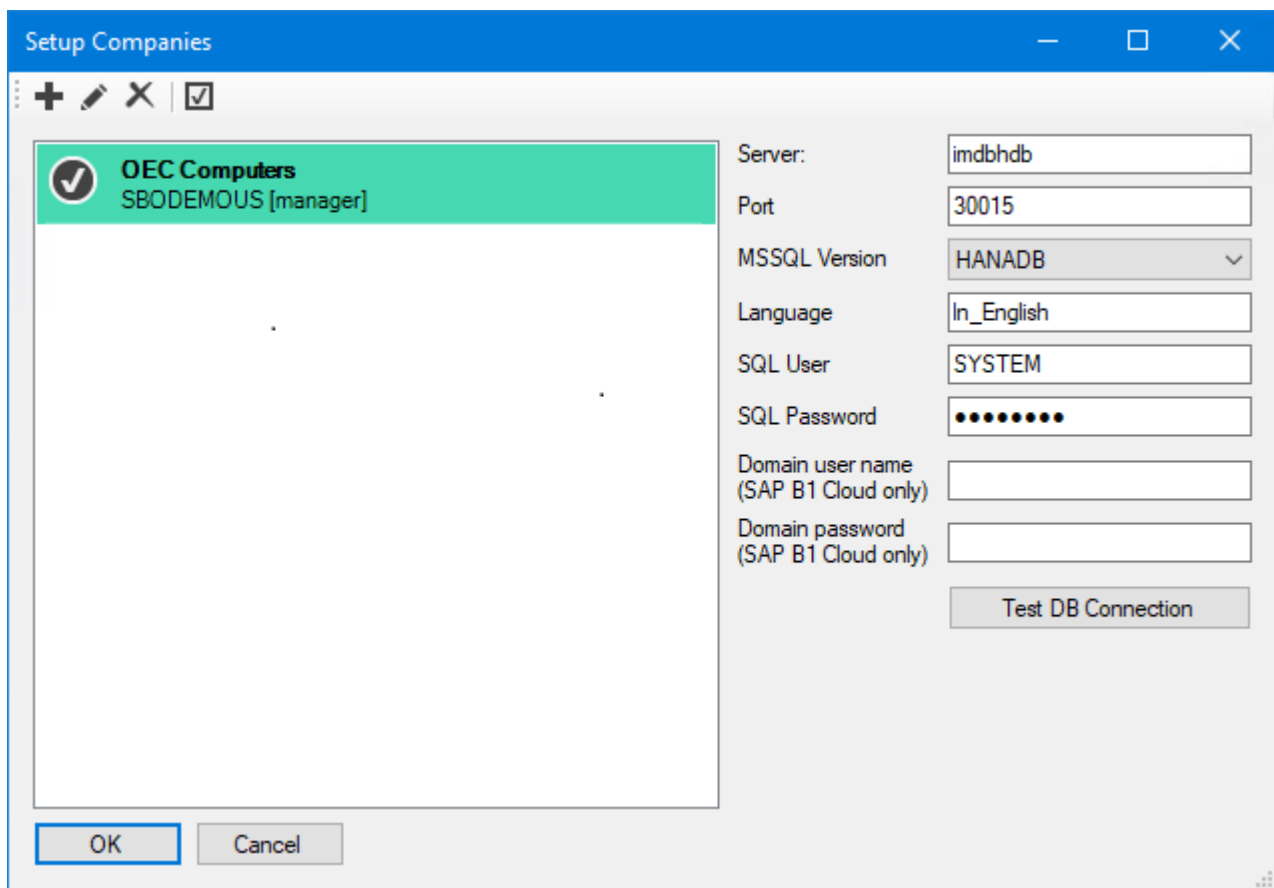
Please note: in this example there are no instances, so the port is the default 1433.

#### • 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.



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.

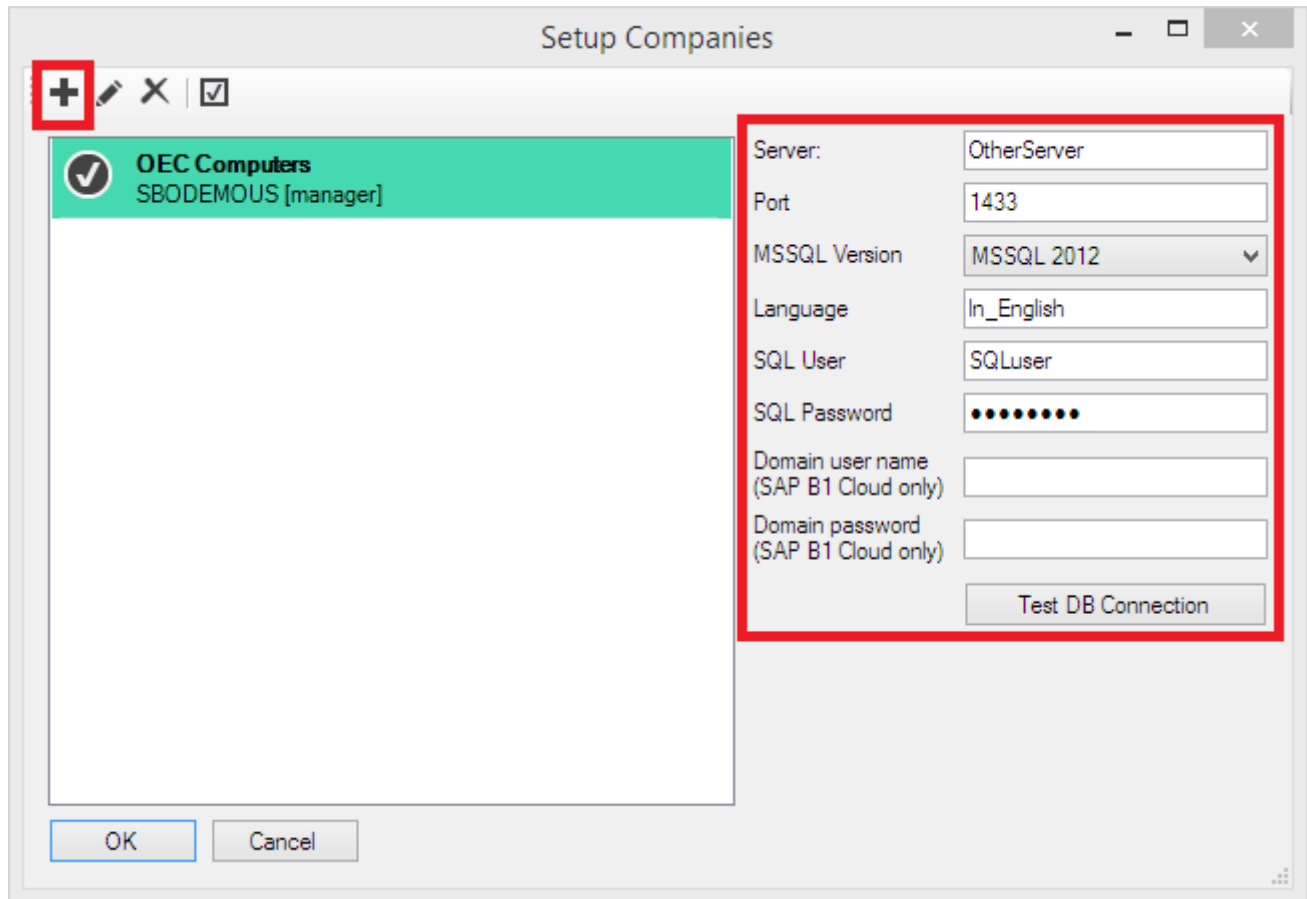
If you click on Test DB Connection, Service Manager will try to connect to the server with the given data. If the connection can be established, you will get a message: *Database connection test - success!*

#### 3.4.2. Add new database

Click on the Setup Companies button.

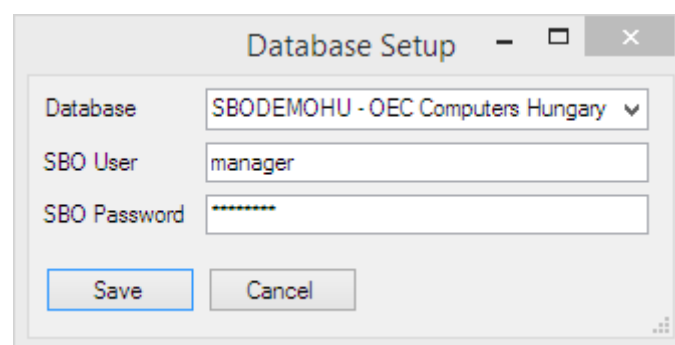
On the opening 'Setup companies' screen check the connection data. If you would like to add a database from a different database server, modify the connection parameters then click on the 'Test DB Connection' button to test the connection. The modification of the connection parameters does not affect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

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



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

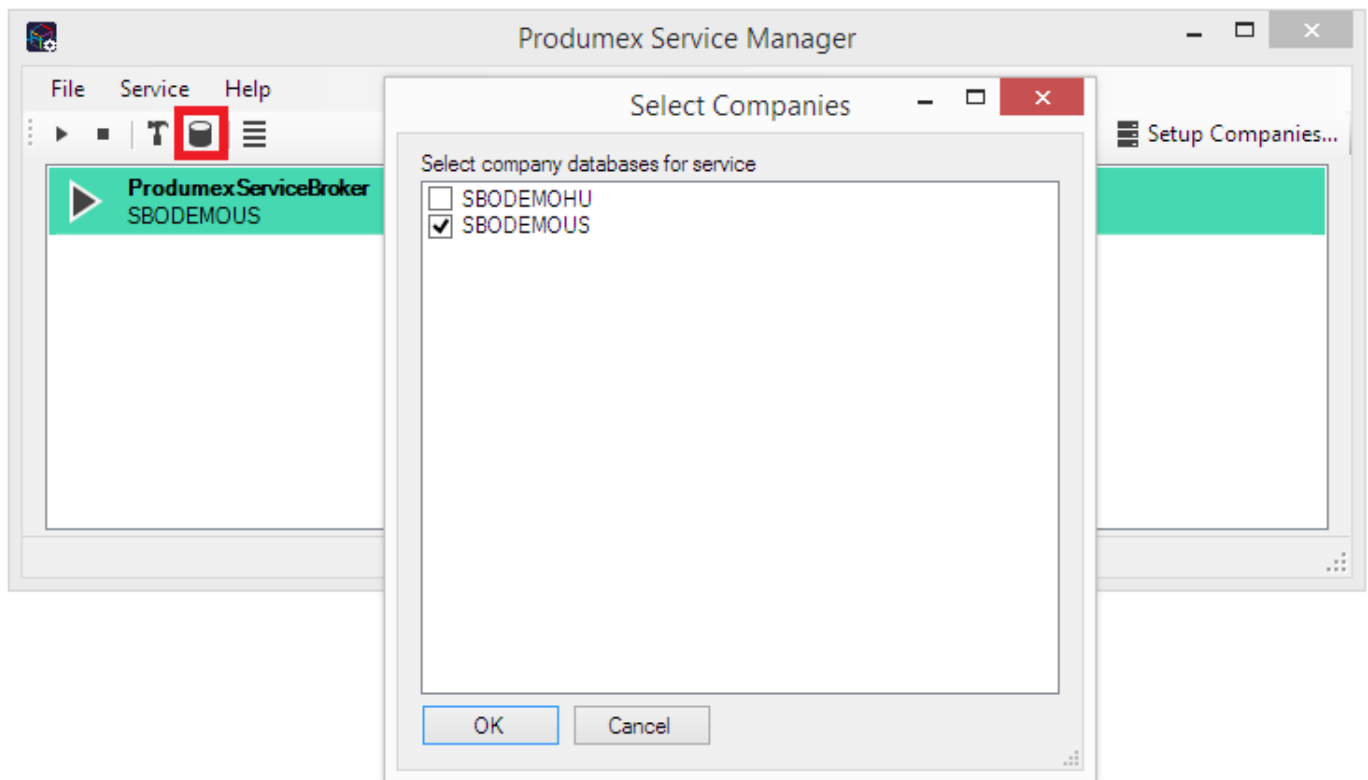
Enter an SBO User and its password to create the connection to the database/schema. SAP employees are used for log in the mobile device. Transactions initiated by the employees will be posted by the SAP user defined for the Service Broker. The SBO user must have the authorizations to create stock related 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.



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.



### 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.

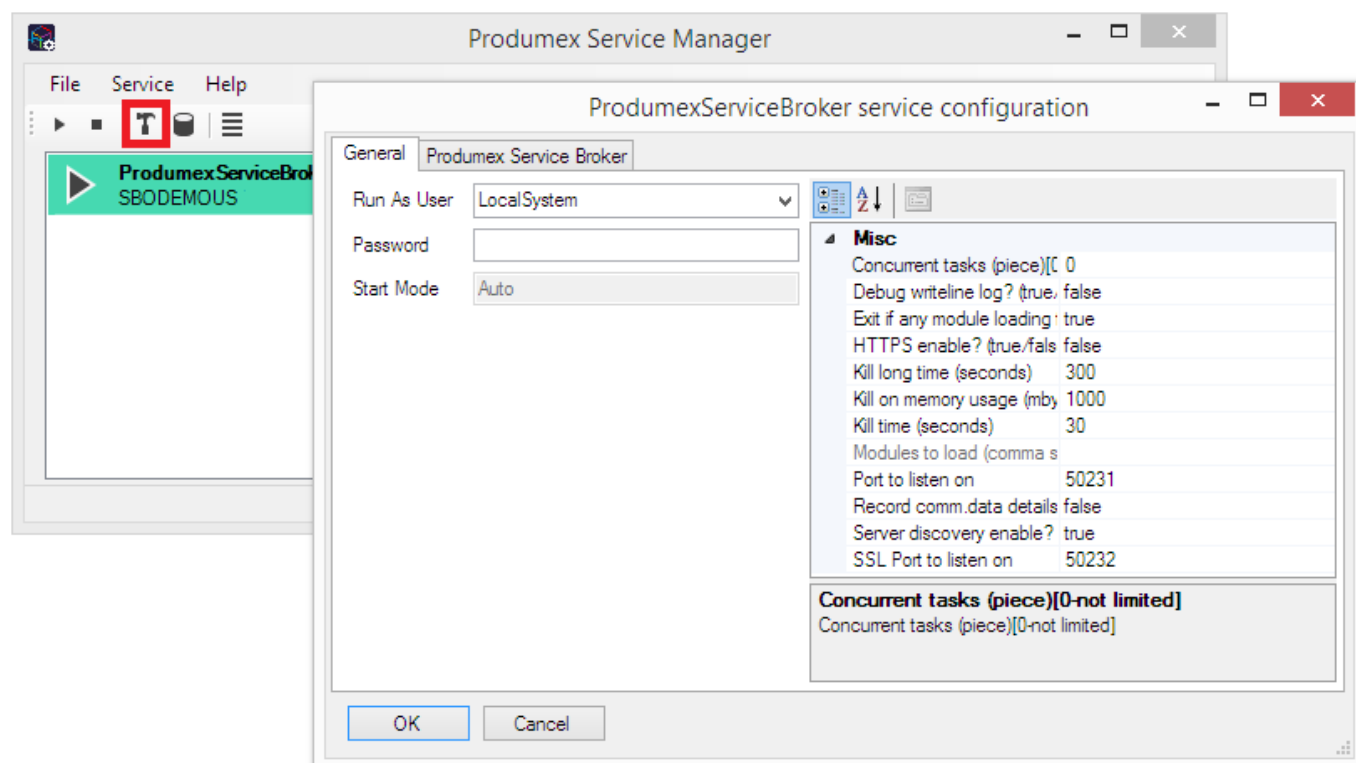
'*Modules to load*' is the module of the add-on to which the service broker connects. It is automatically done by the module installer for you, so you only have to set this manually in specific cases. To add multiple modules, separate them by comma.

- 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 *BXMWWWebAPI.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.

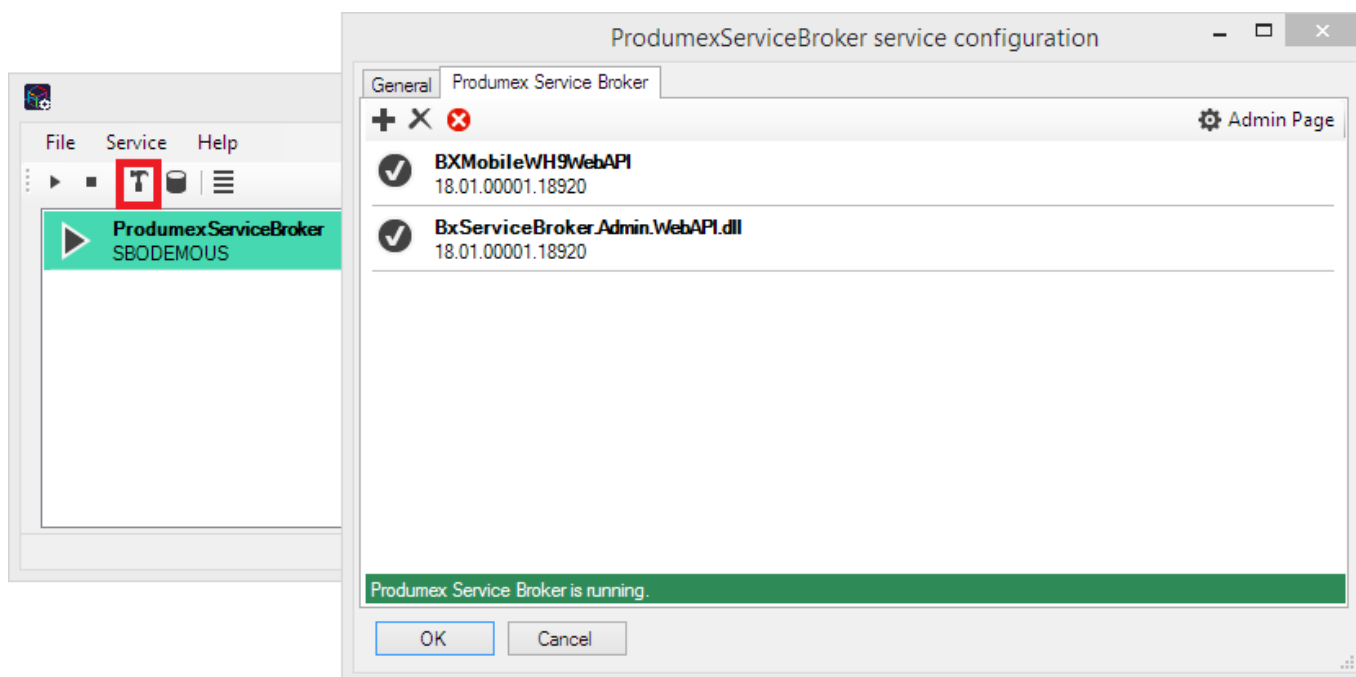
You have to assign an administrator user to the service in the Windows Service Manager, otherwise the Service Broker cannot connect to SBO and cannot write to its log files. If the Service Broker stops right after starting it, and in the log file you have access denied errors, then the cause is that you haven't assigned the administrator user to the service.



### **Produmex Service Broker tab**

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

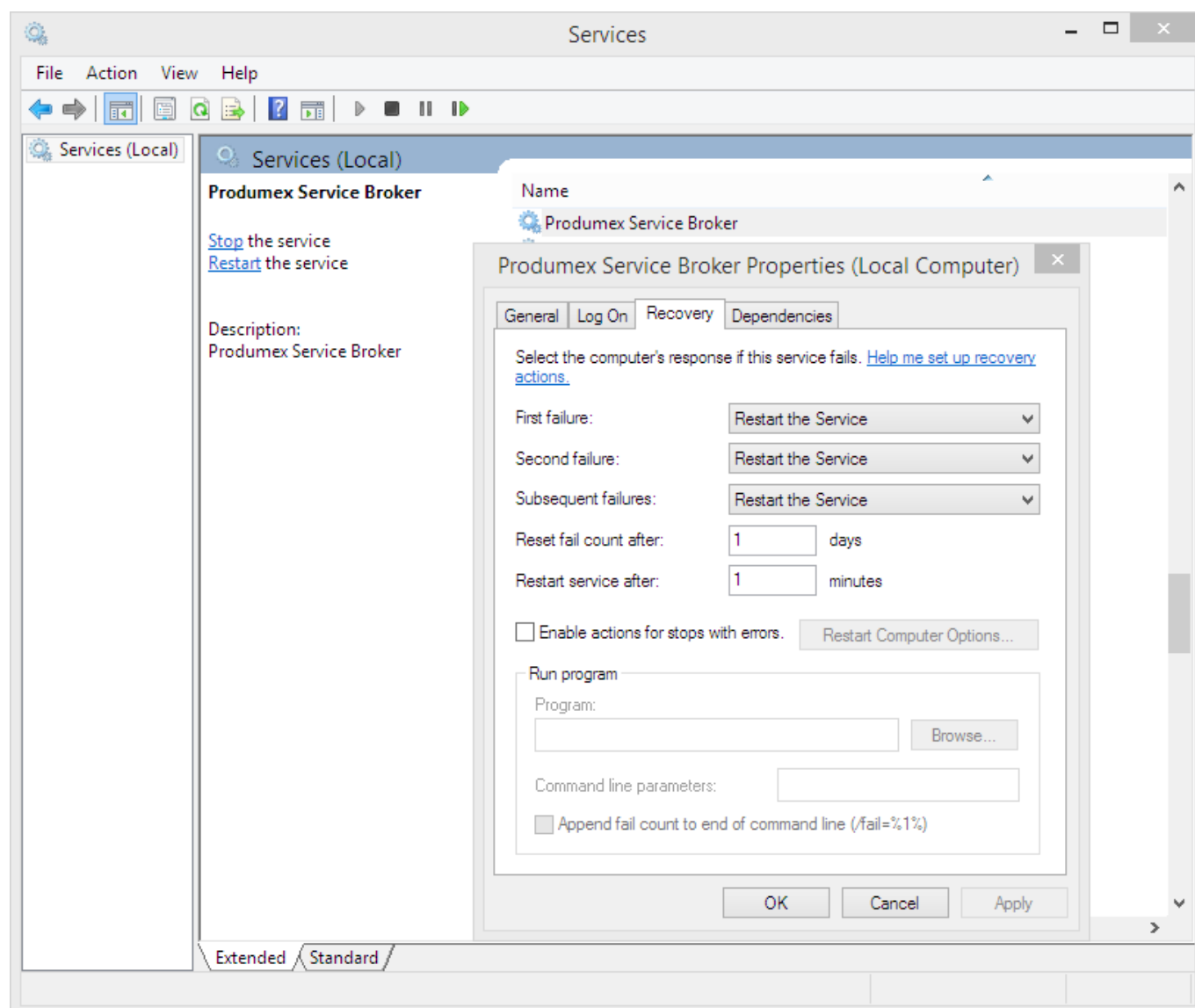
If you see a check icon before the module name, it means it could be loaded successfully. If a problem arises, you will see error beside the module name.



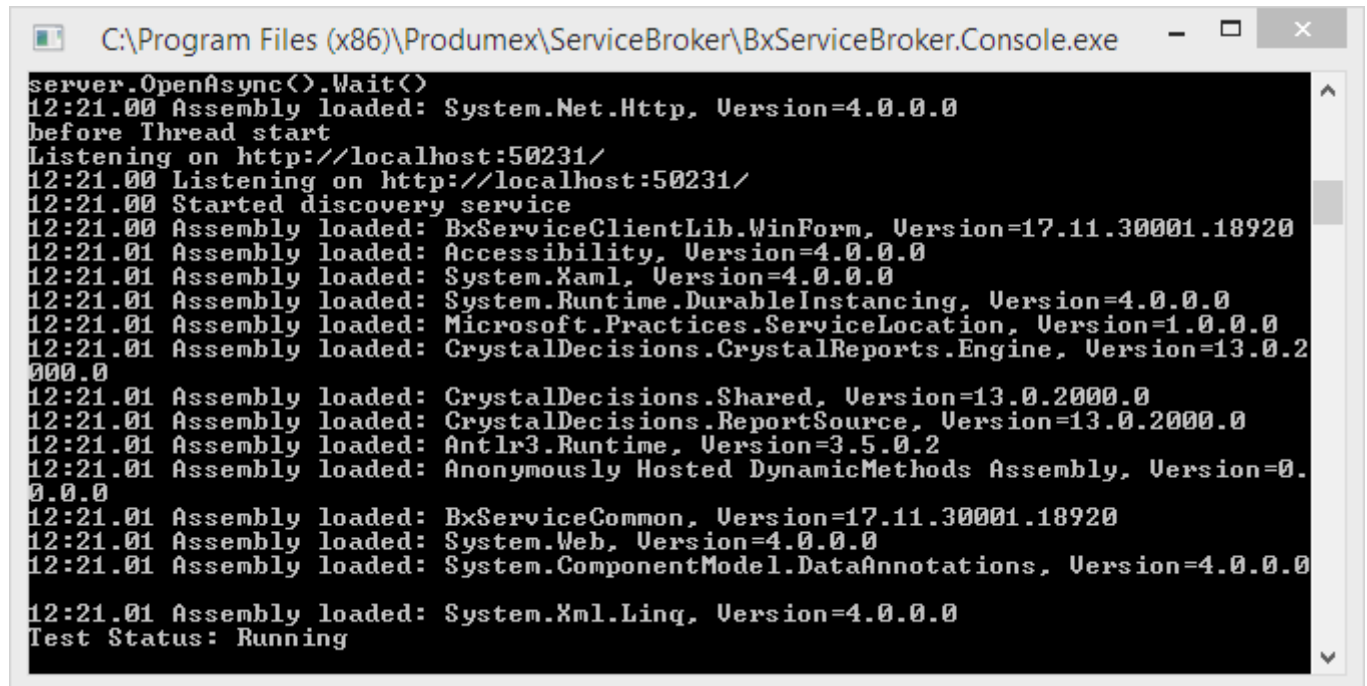
### 3.4.4. Start Produmex Service Broker

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.



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:



```
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.WinForms, 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=13.0.2000.0
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.Linq, Version=4.0.0.0
Test Status: Running
```

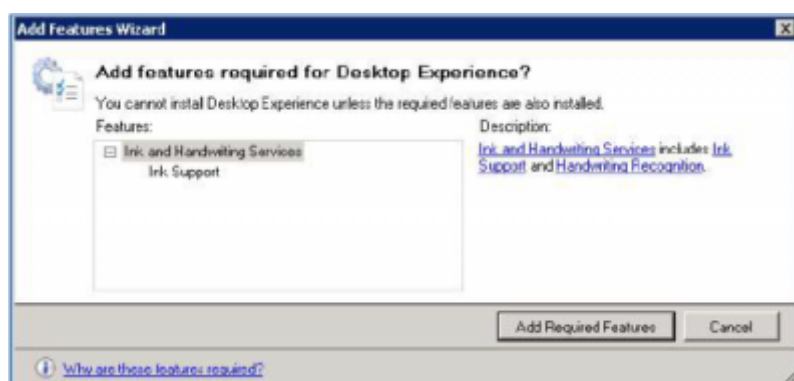
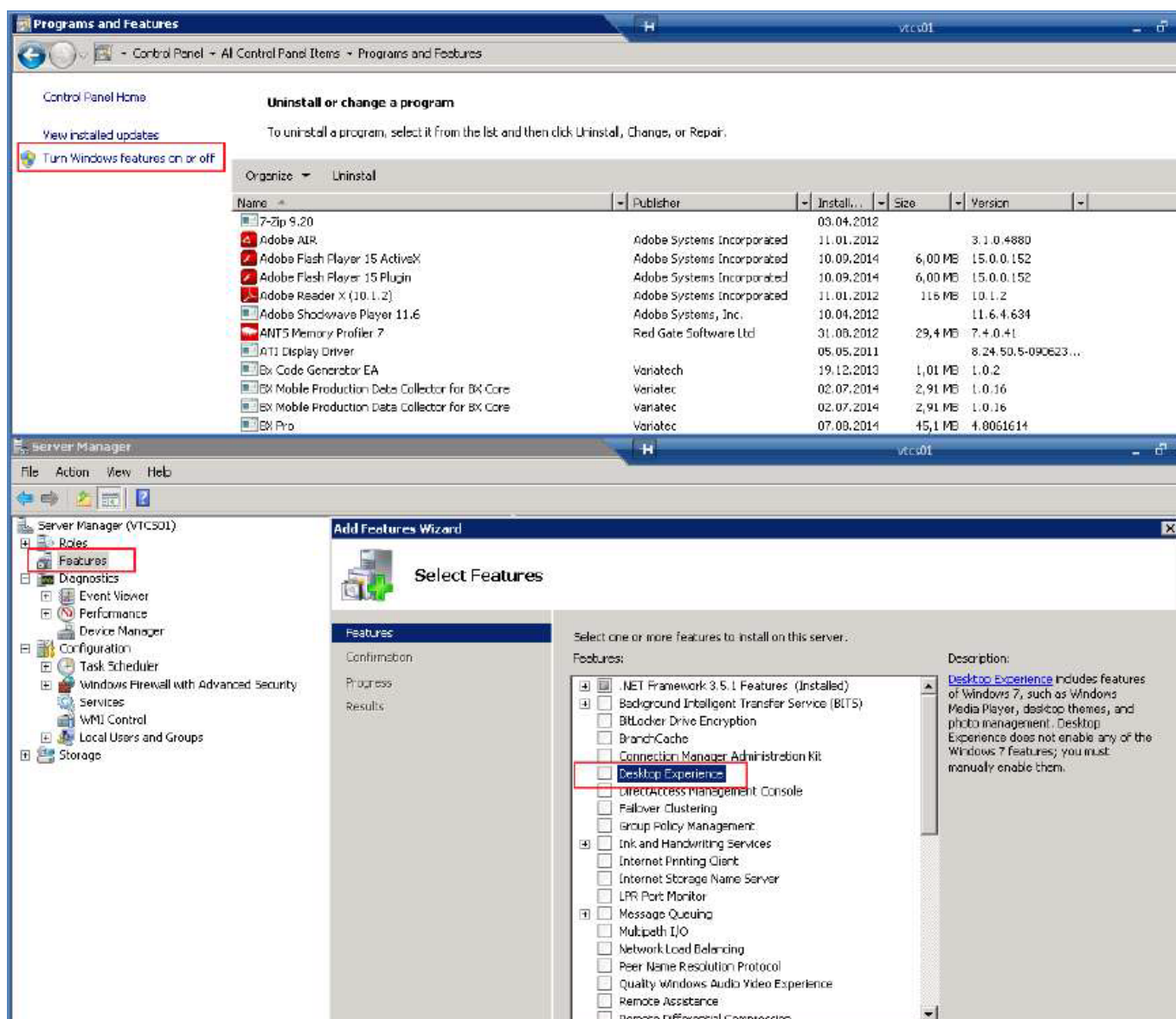
The use of the command window is recommended for debugging purposes. In production environment the use of the service is more efficient.

### 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.





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:

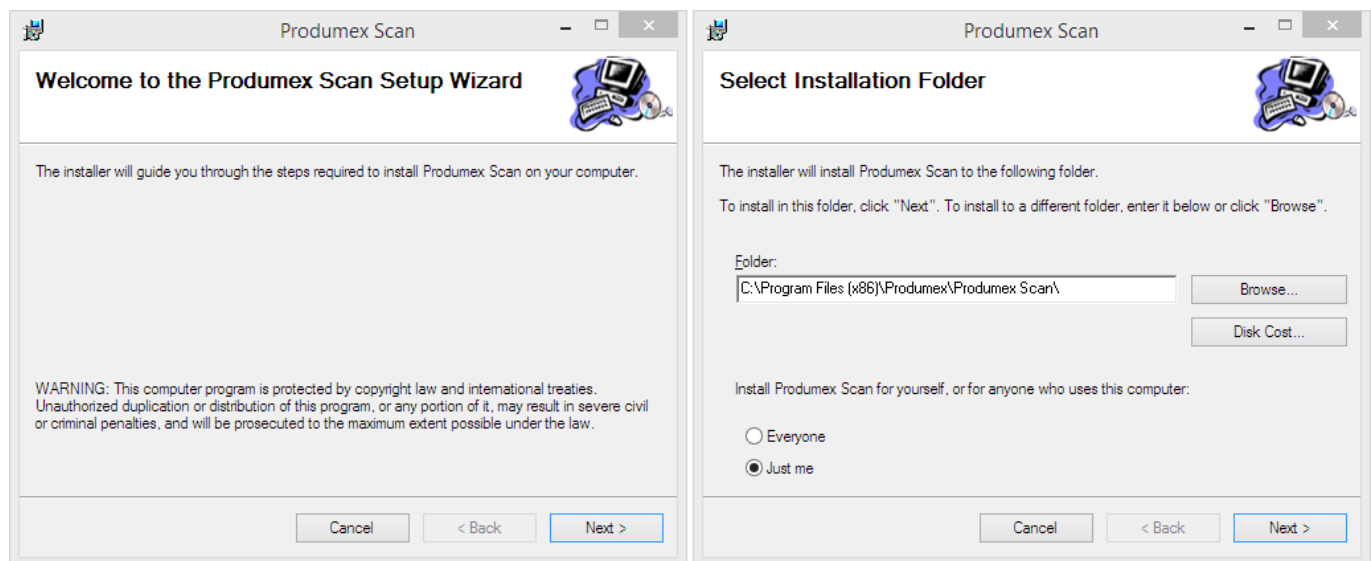
<http://download.microsoft.com/download/0/4/3/0432540e-2d1a-415d-9c9da9963e43503e/drvupdate-amd64.exe>

- 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\BXMoblieWarehouse\ 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.

## 4. Performing a version upgrade

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.
Server Module version	18.2.	✓	✓	✓		
	18.1.		✓	✓		
	17.11.			✓		
	17.09.				✓	
	17.05.					✓

### 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.

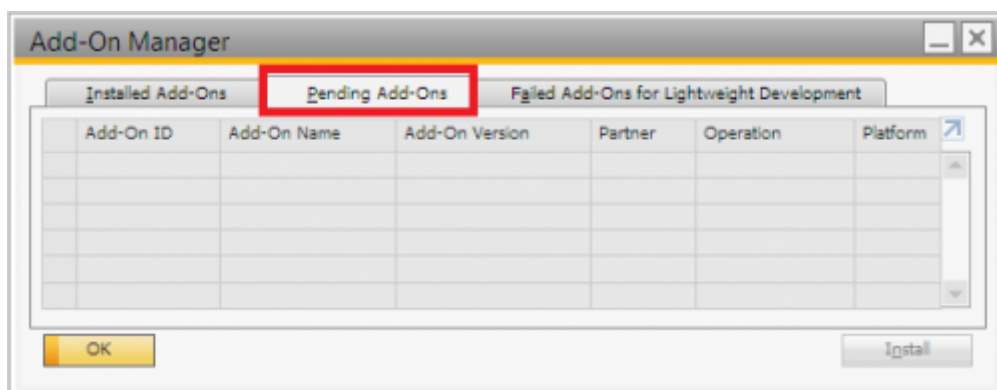
## 5. Adding a new database to an existing installation

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

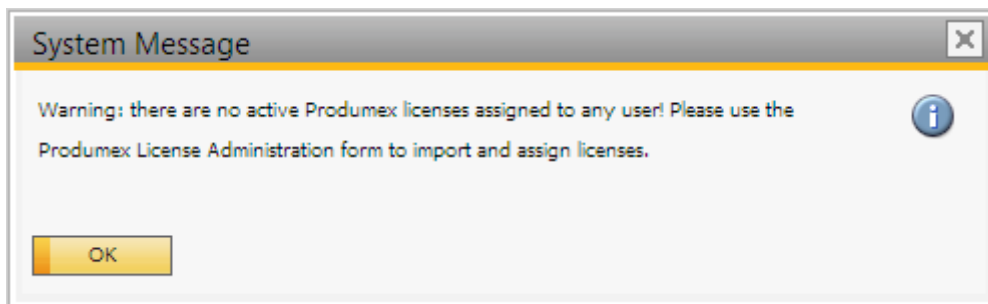
### 6.1. Failed installation

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.



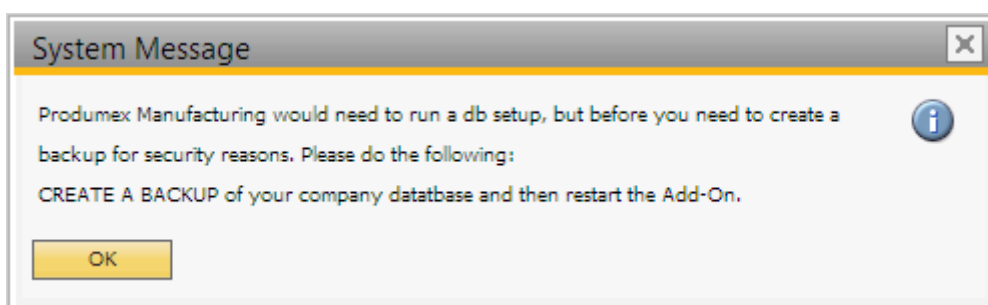
### 6.2. Getting a license

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

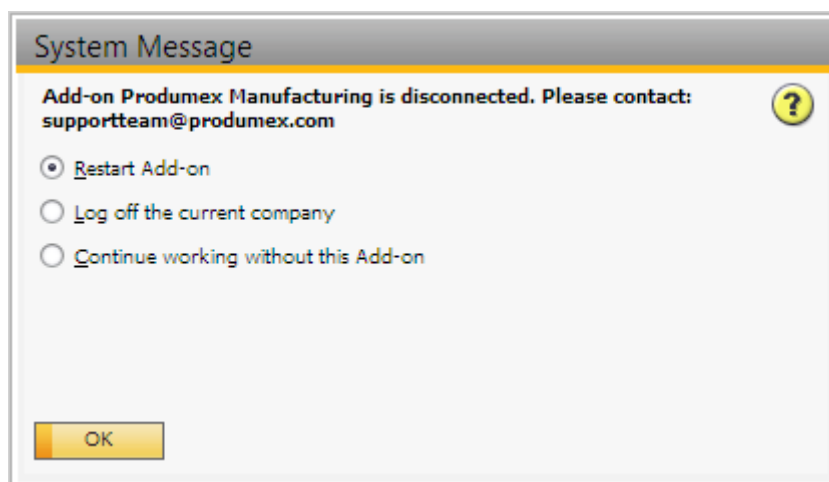


### 6.3. No backup detected

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



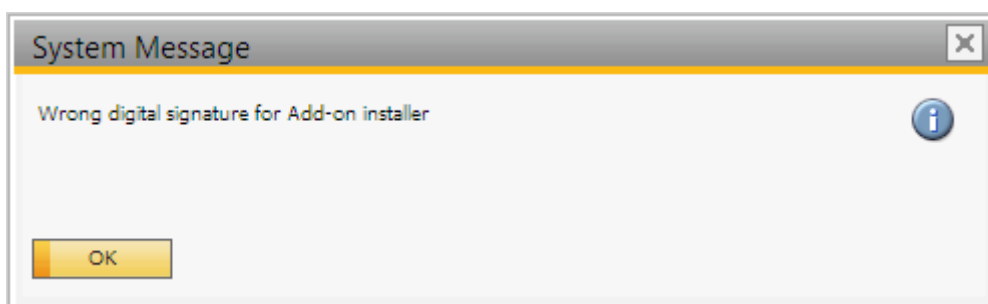
Press OK. As the add-on stopped, the system will ask you how you want to continue:



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

### 6.4. Wrong digital signature for Add-on installer

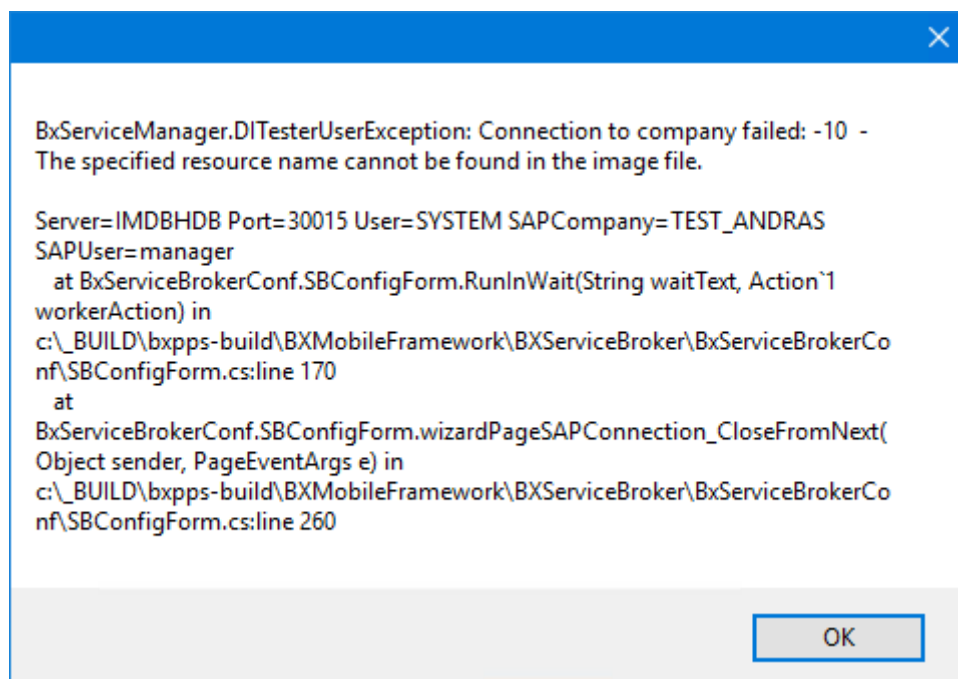
When starting the Produmex Manufacturing add-on after the installation, the following error message appears: 'Wrong digital signature for Add-on installer'



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:



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

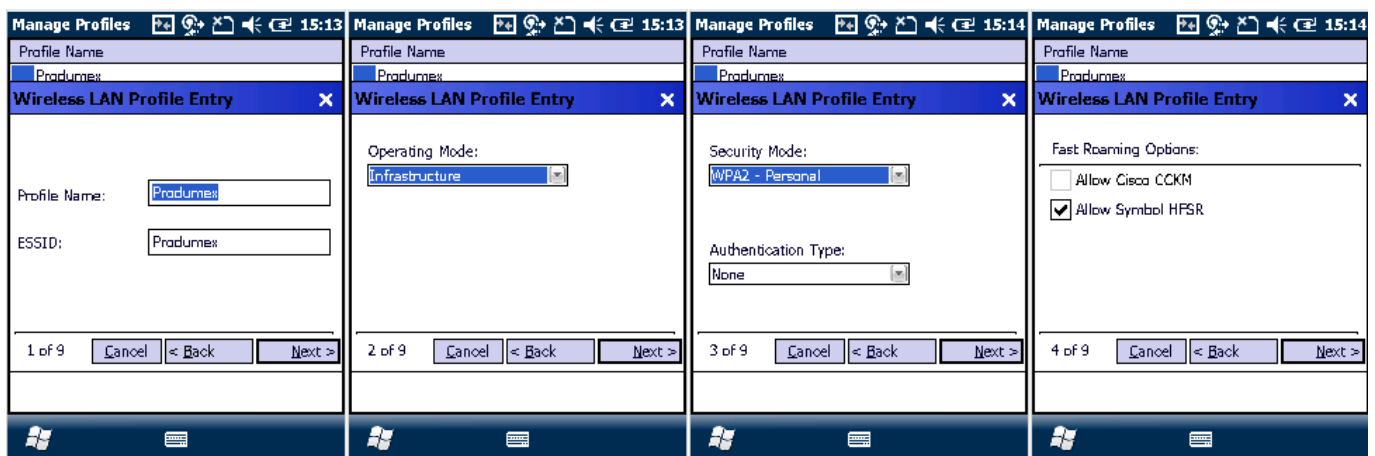
Set up the Wi-Fi connection on the device. The Produmex Scan client application connects to the Service Broker by using HTTP/HTTPS protocols.

### 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.



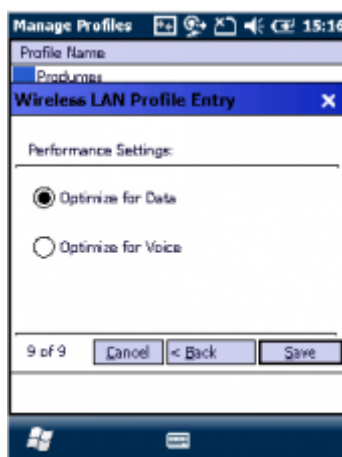
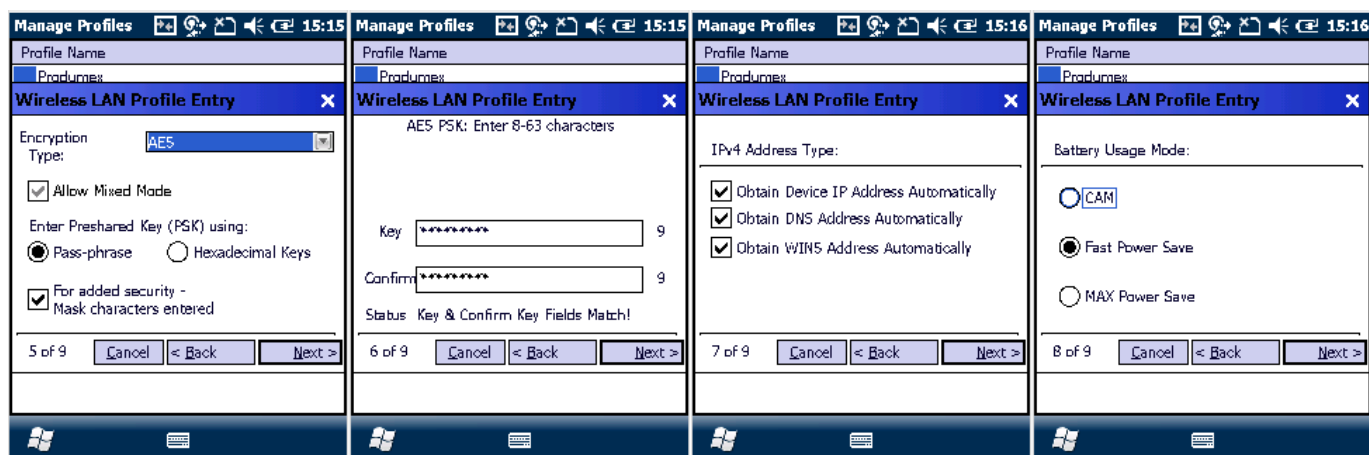
Follow the steps of the Wireless LAN Profile Entry and save the profile.



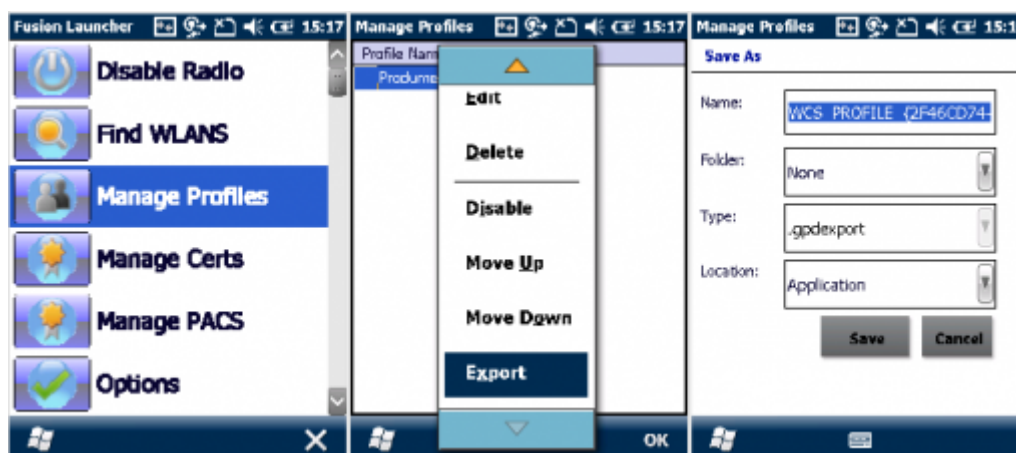


Last update:


2019/03/13 implementation:scan:completeinstallguide <http://wiki.produmex.name/doku.php?id=implementation:scan:completeinstallguide>  
11:25



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.

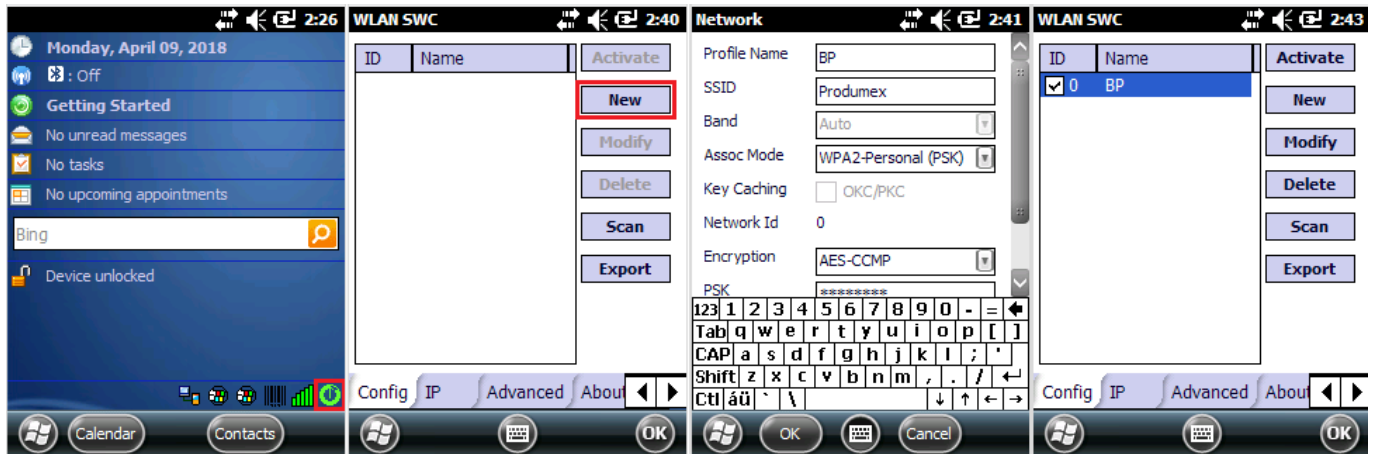


## 1.2. Example: Honeywell Dolphin 60

Press the WLAN SWC icon  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

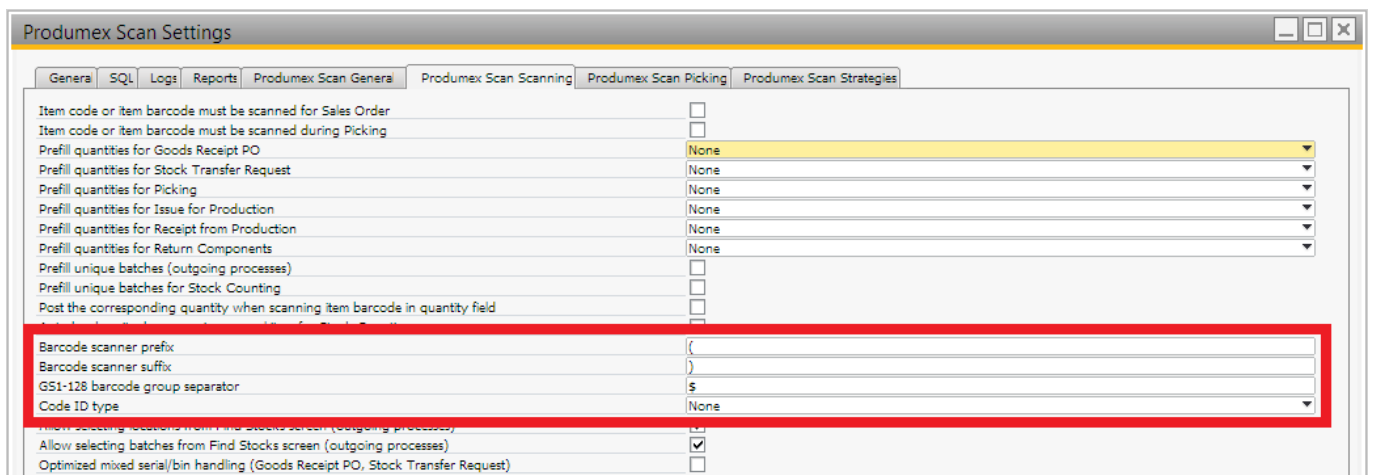
according to the entered parameters.



## 2. 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.

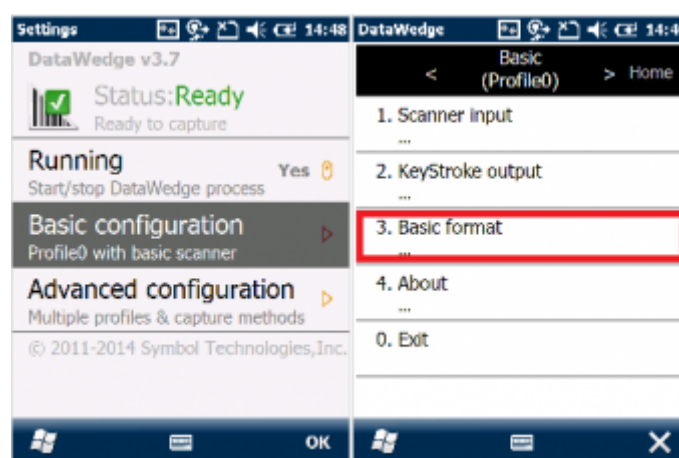


### 2.1. Example: Zebra MC67NA

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



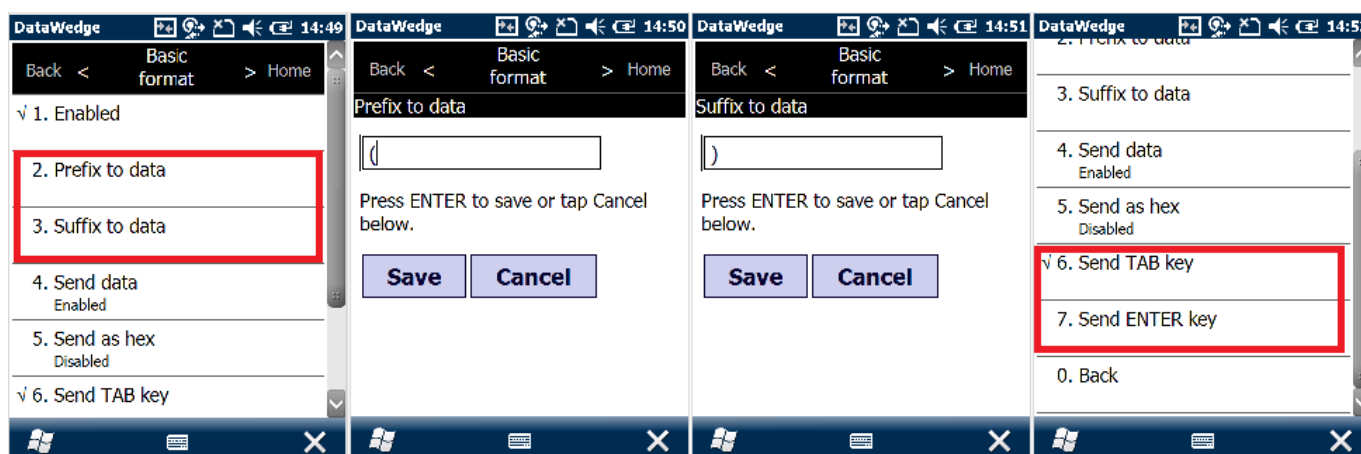
Tap Basic configuration then press Basic Format.




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.

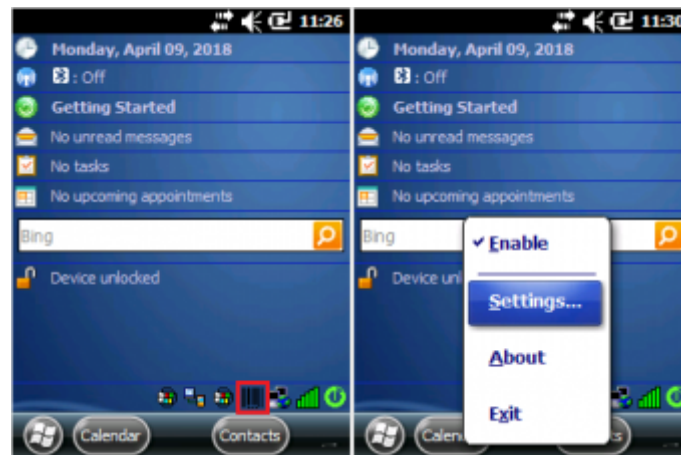
To set the barcode suffix, press 'Suffix to data'. Add the suffix character on the next screen. In the example we set the ')' character as the suffix.

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

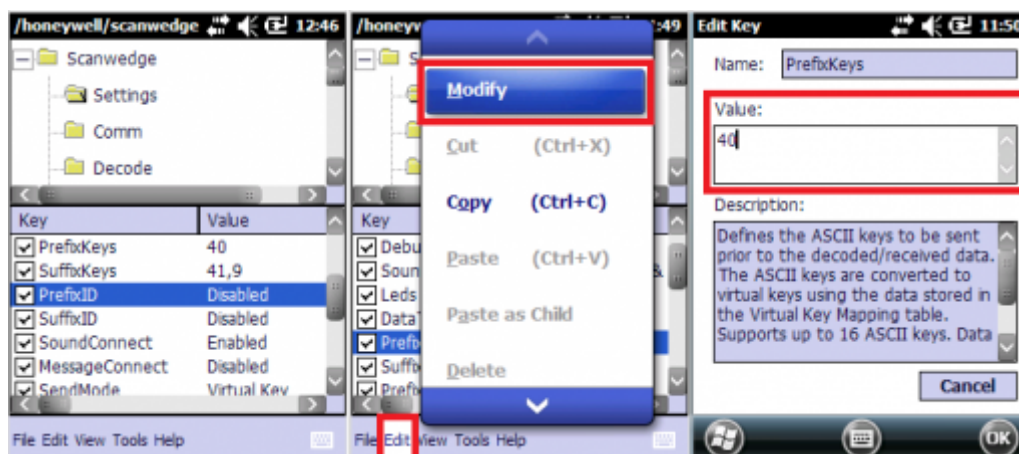


## 2.2. Example: Honeywell Dolphin 60

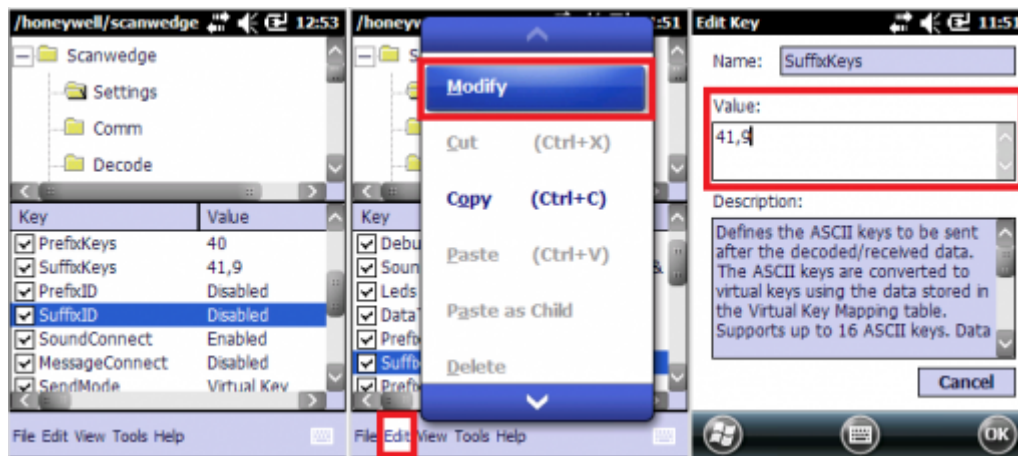
On the main menu screen press the Scanwedge icon  and select 'Settings...'. Go to the Settings folder under Scanwedge.



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.



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.



## 2.3. Example: Zebra MC32N0



Video

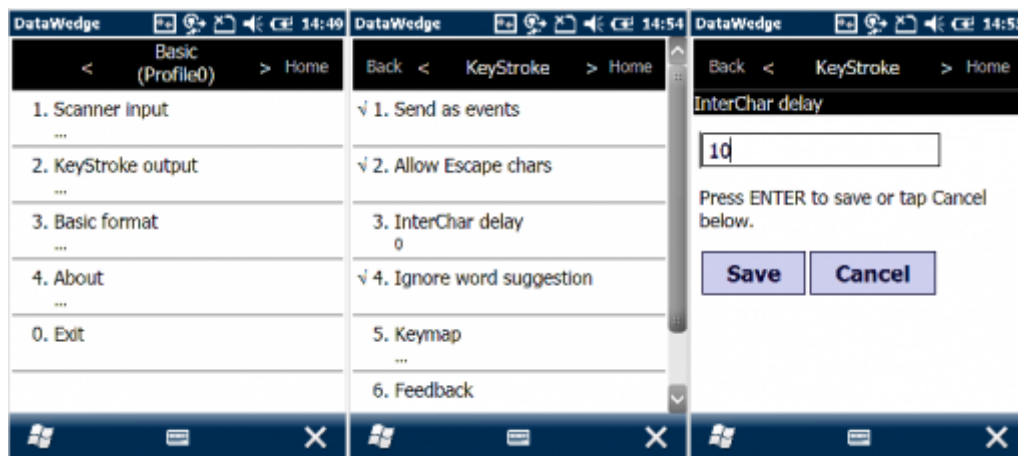
## 3. Interchar delay

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

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.



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





#### 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.



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