

Installation and Configuration Guide

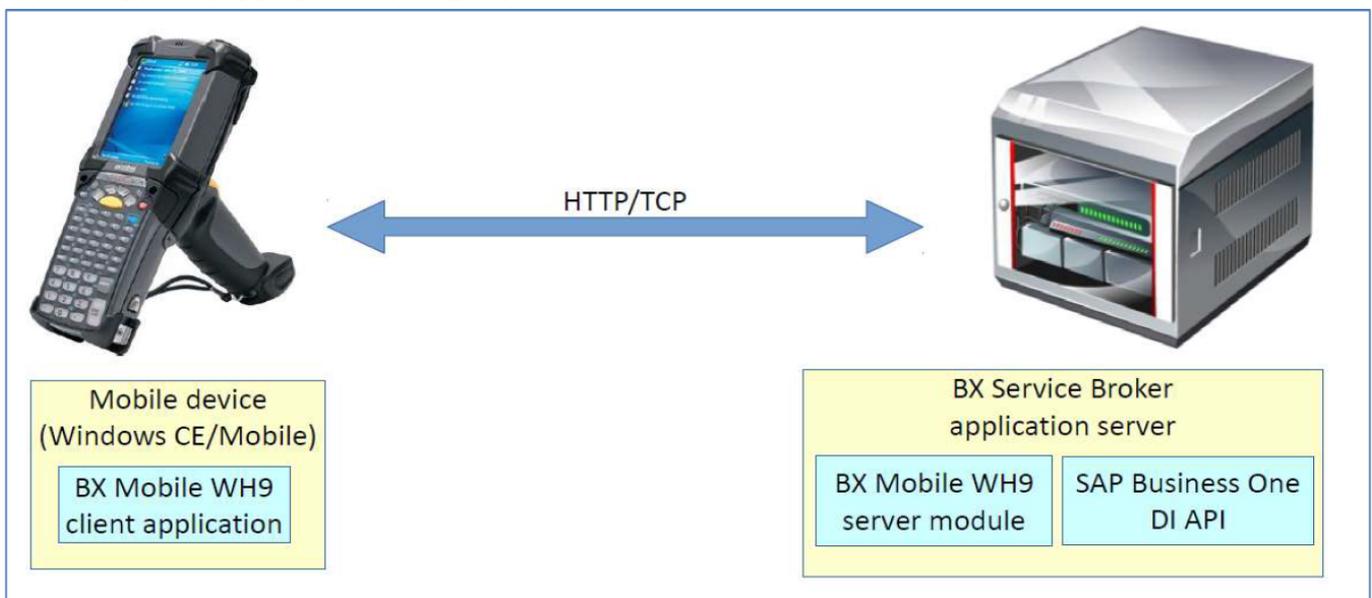
This document describes the functionality and handling of BX Mobile Warehouse. BX Mobile Warehouse is a stock management solution for Windows Mobile devices and SAP Business One. It is based on the standard bin location management of SAP and extends it with support for Windows Mobile devices with barcode scanners with which the users can handle stock movements (goods receipt, delivery and inventory) easily.

1. Technical Background

BX Mobile Warehouse comprises of 3 parts:

- The BX Mobile Warehouse Add-on
- The Service Broker and the BX Mobile Warehouse module
- The standalone application that runs on the mobile devices

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 standalone application on the mobile device is used to enter the data for the stock movements which is then sent to the Service Broker.



2. Installing BX Mobile Warehouse

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

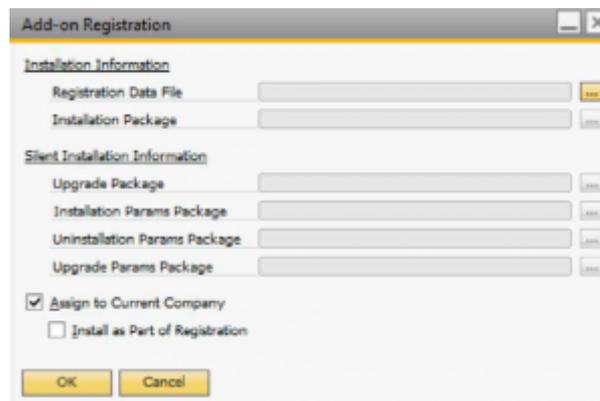
- Install the BX Mobile Warehouse add-on in your SAP company database and run the DBSetup.

- Install the Service Broker + BX Mobile Warehouse server component on your SAP server and configure it.
- Install the mobile Warehouse application on the mobile devices.

2.1. Installing Mobile Warehouse Add-on in Your SAP Company Database

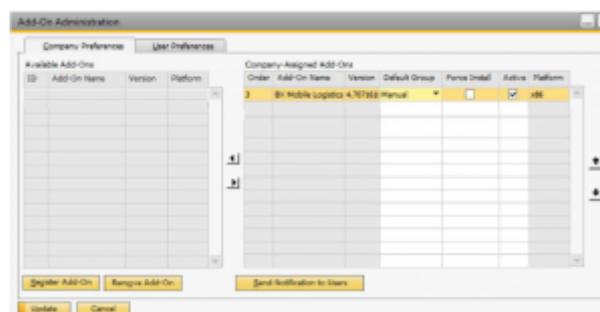
Installing the BX Mobile Warehouse Add-on happens the same way as you would install any other add-ons in SAP. You have to open Administration>Add-Ons>Add-On Administration and click on button Register Add-On.

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



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

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



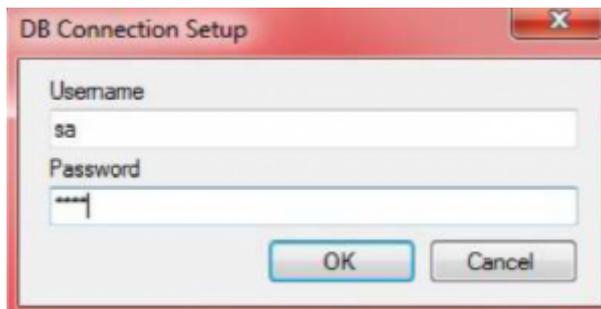
After that you have to start Administration>Add-Ons>Add-On Manager to be able to start the add-on. When you first start the add-on it will create its own database tables and user defined fields. This process is called DBSetup. The add-on will display a message about it when you start it:



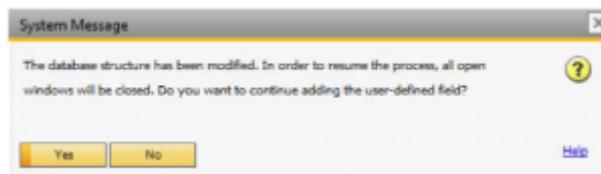
If you click on Yes, the DBSetup will start, if you click on No, the add-on will stop and you will get the same message next time you start it. To be able to run the DBSetup, first you have to create a backup of the company database. The add-on will check if a backup was created in the last one hour.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



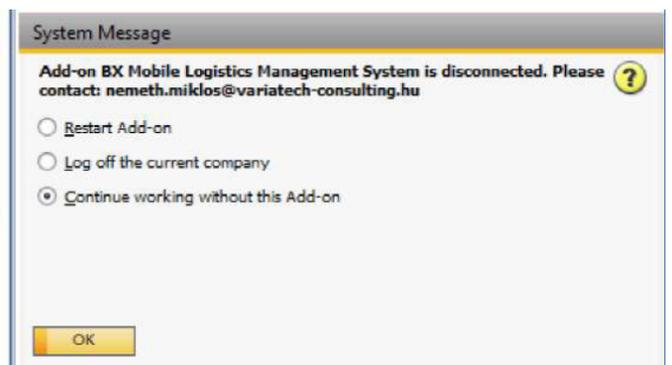
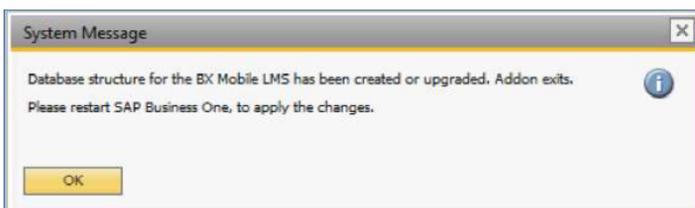
The add-on will exit. Note that a differential backup will be done. If you have the backup and click on Yes on the system message screen about the DBSetup, you will have to enter the user and password data for the SQL connection:



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



You will see a message like this:



When the add-on has stopped, SAP will show the above message (right).

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

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

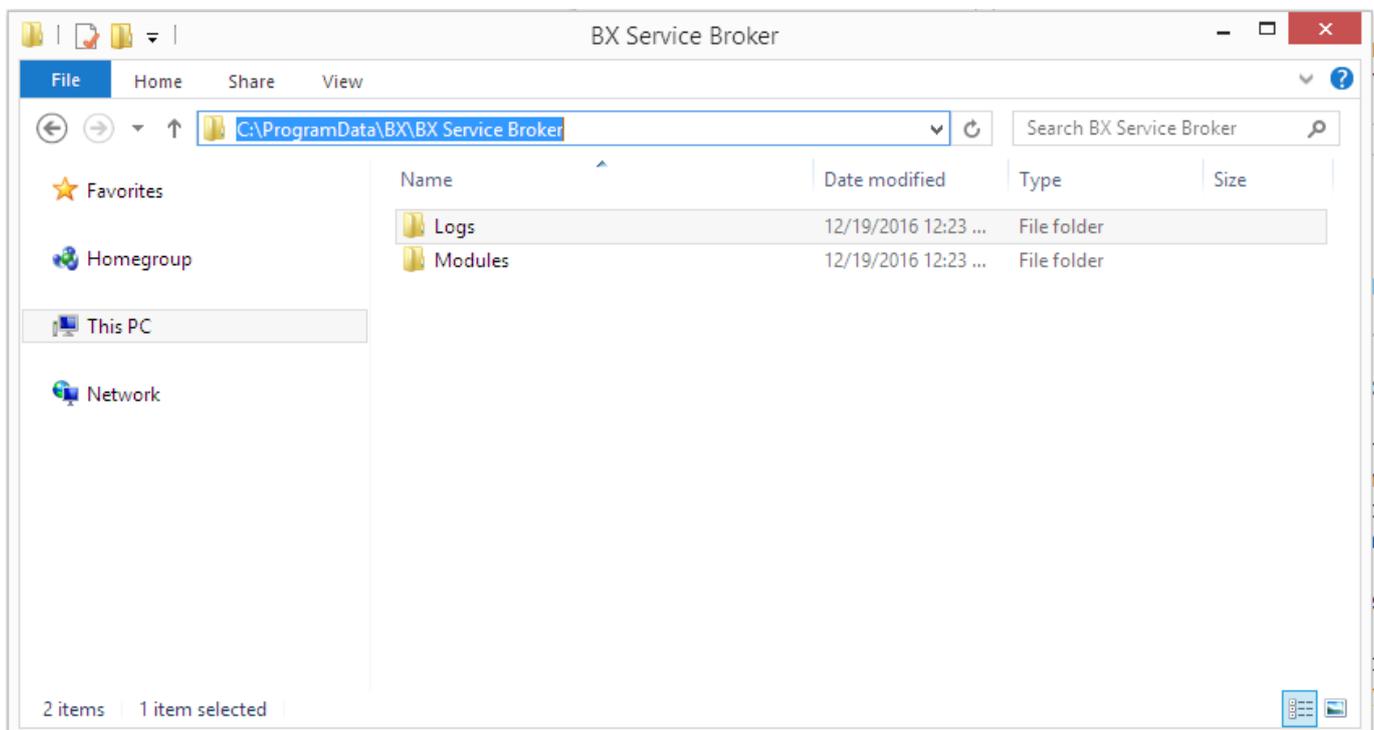
2.2. BX Service Broker, BX Service Manager and the BX Mobile Warehouse server module

Install Service Broker

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

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

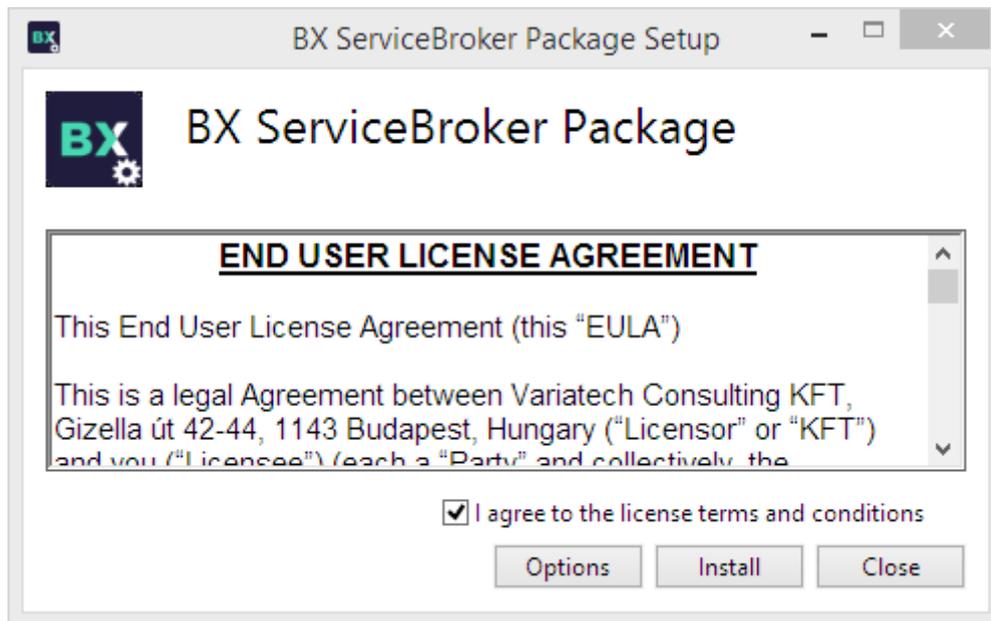
The service broker creates its log files at c:\ProgramData\BX Software\BxServiceBroker\Logs and needs .NET 4.0 to run (it is in the installer). The ProgramData folder is hidden. You have to either enable show hidden folders and files in windows settings or you have to enter it directly to the address bar in windows explorer:



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

Install the service broker on the server which has access to the company database. The installation

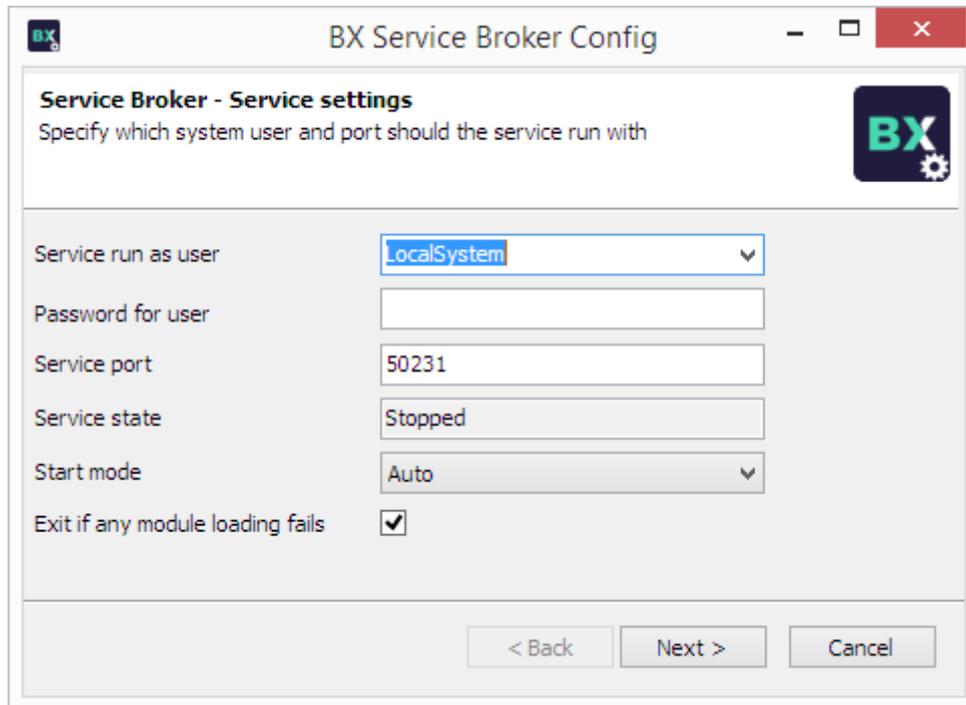
file is an msi file with a name like this one: BxServiceBroker.Installer_20131126.msi.
After launching the .exe file, the End User Licence Agreement will open up. BX Service Broker can only be installed if the License Agreement is accepted.



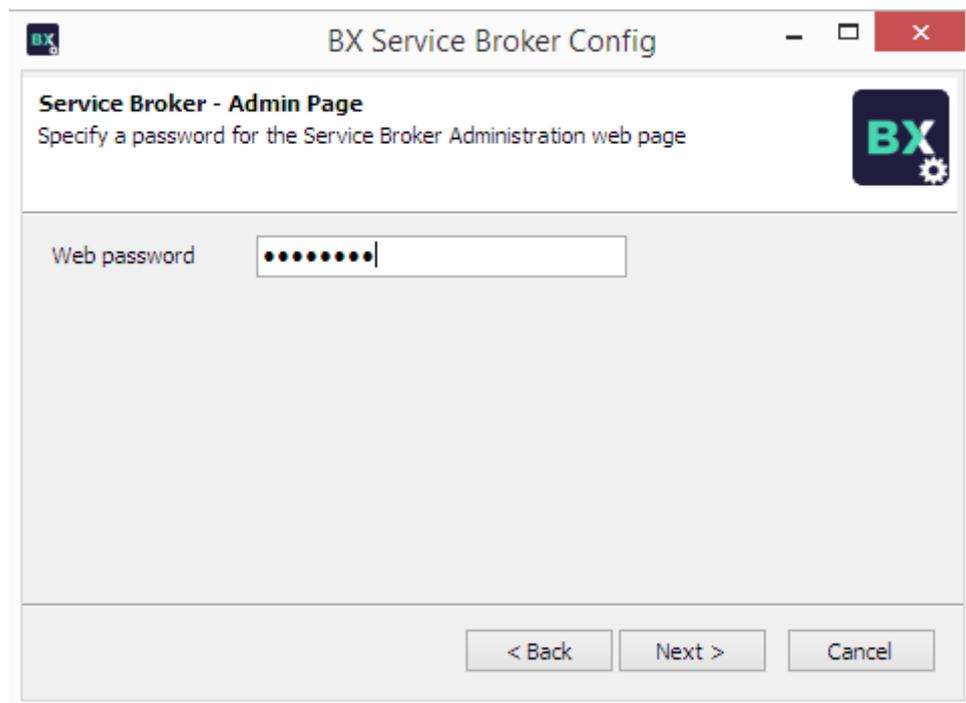
When you start the installation, the BX Service Broker installer will request information based on the system and will set up the service based on the information you enter.

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

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

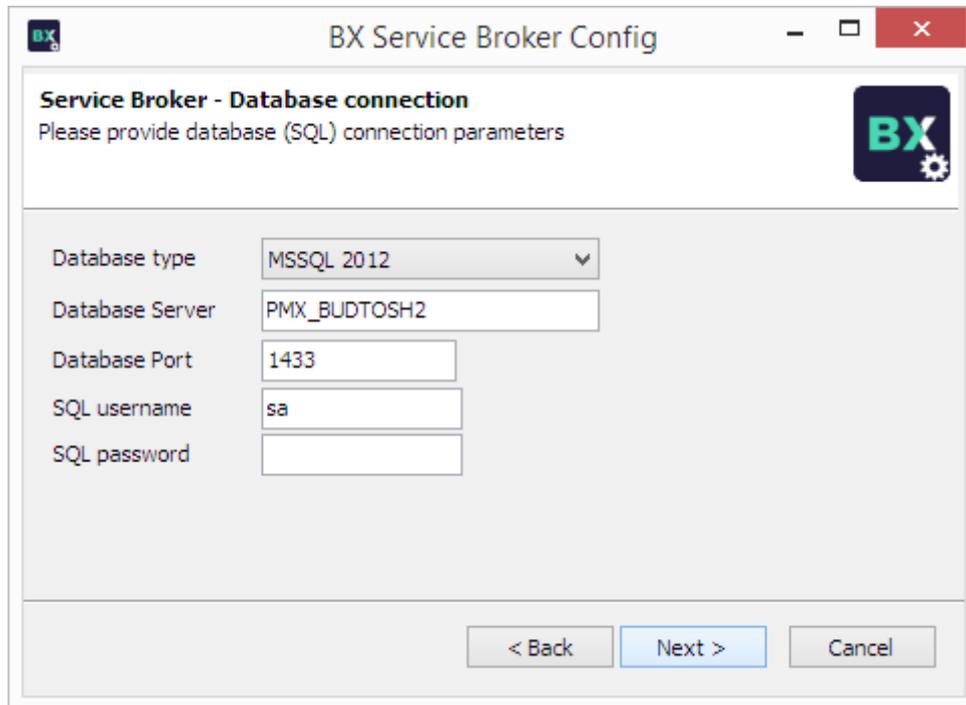


Specify a password for the Service Broker Administration web page.

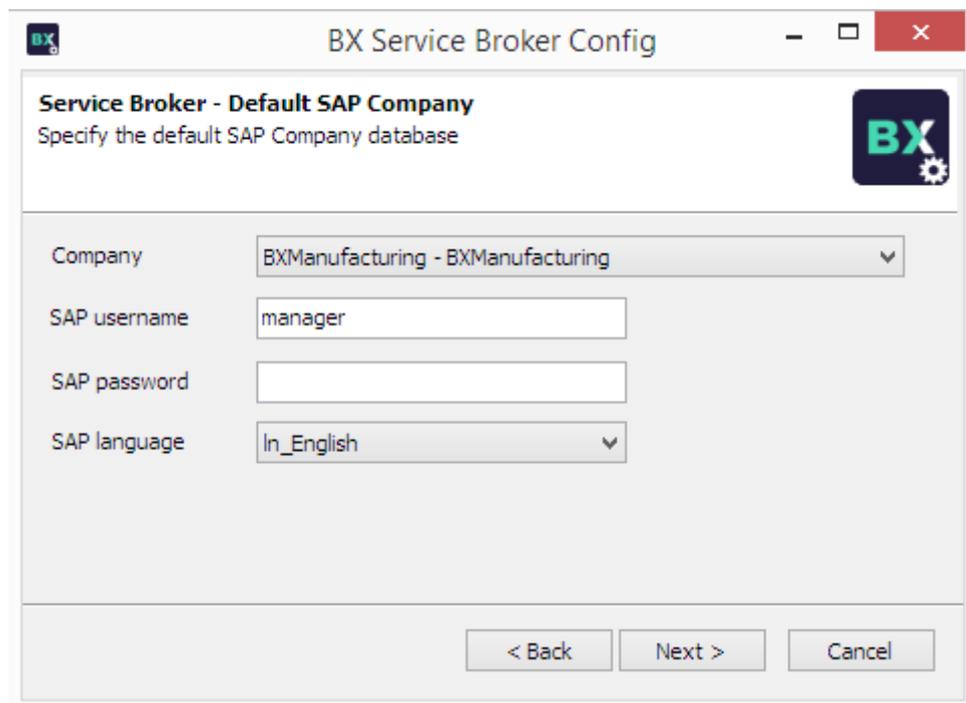


You can also enter the port on which the communication goes; the default is 50231. You can also set up the start mode of the service. The recommended is Auto or Auto (delayed start). You have to set up the SQL server connection in the next window.

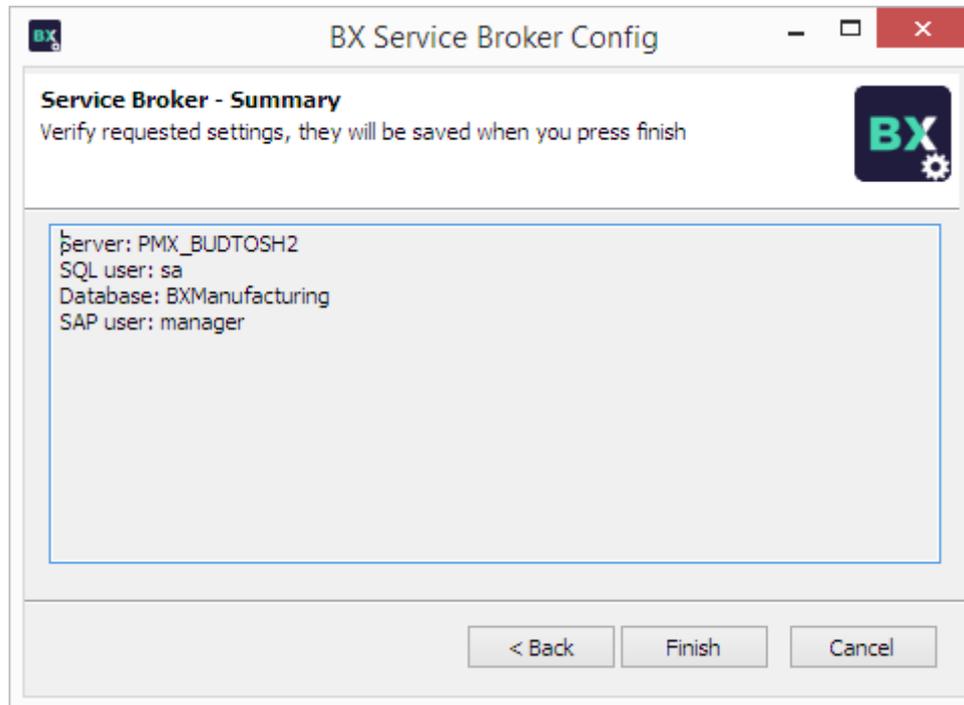
If you have a named instance, you have to enter the name of the server and the named instance as well (for example SERVER\NAMEDINSTANCE).



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



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



Click 'Finish' to end the installation.

Install Web API

The BX Service Broker can work together with different BX add-ons. To do it, it uses the dlls of that add-on. You need to install these dlls with the server installer which has a name like this: *BX_add-on_name_WebAPI-version nbr-setup.exe*.

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 BX Service Manager if you select the Service Broker and click on the 'Configure' button. Go to the 'BX Service Broker' tab.

BX Service Manager

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

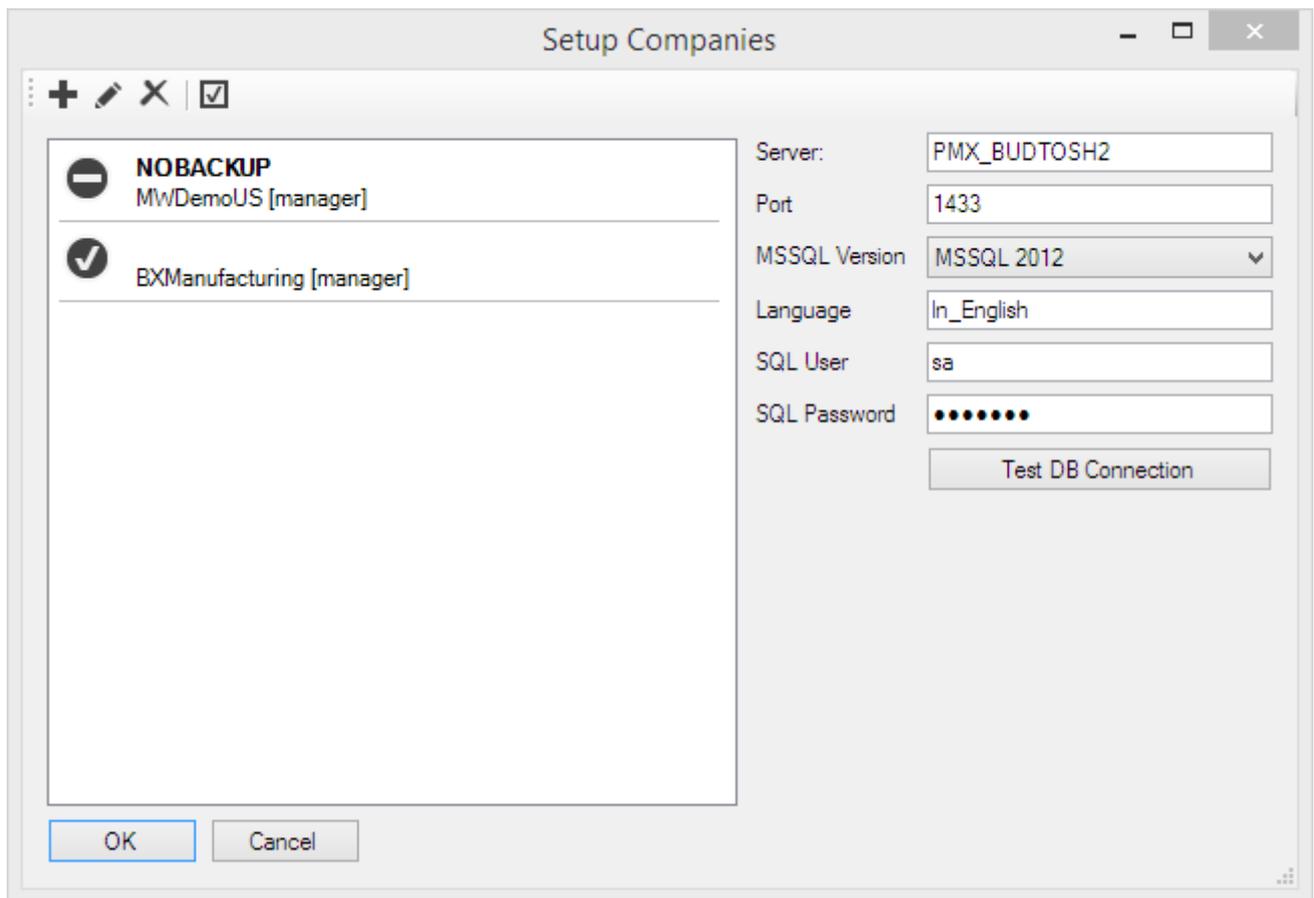
It is automatically installed by the BX Service Broker installer. The Service Broker will automatically appear in the BX Service Manager, together with all other installed BX services that are supported by the Service Manager.

Setup/Modify Connection data to the SAP company

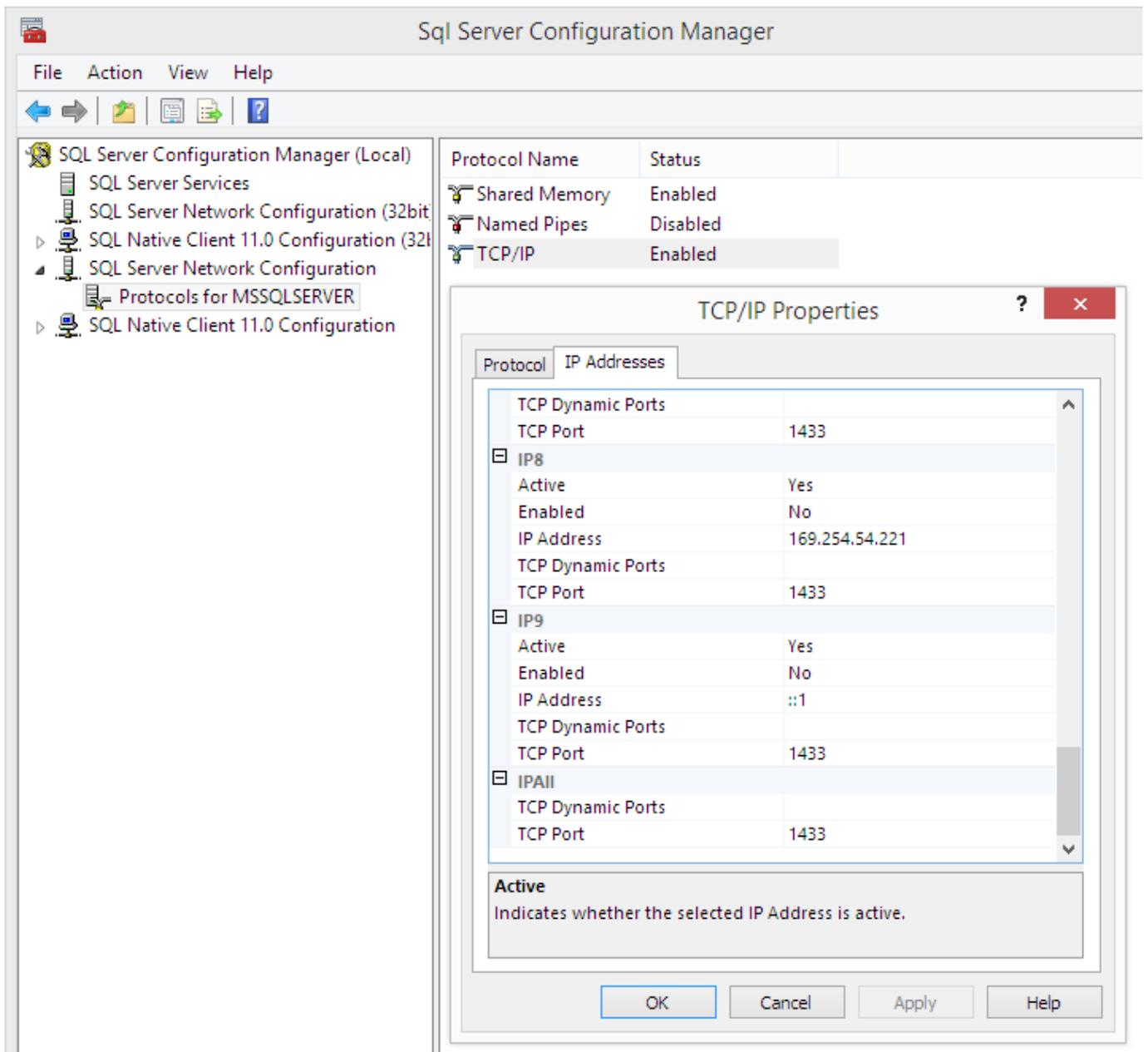
Click on the 'Setup Companies' button.

On the opening window you have to enter the connection data to your SAP company database. At

'Server' enter the name or IP address of the server (if you have connection problems when using the name of the server, try to use the IP address instead).

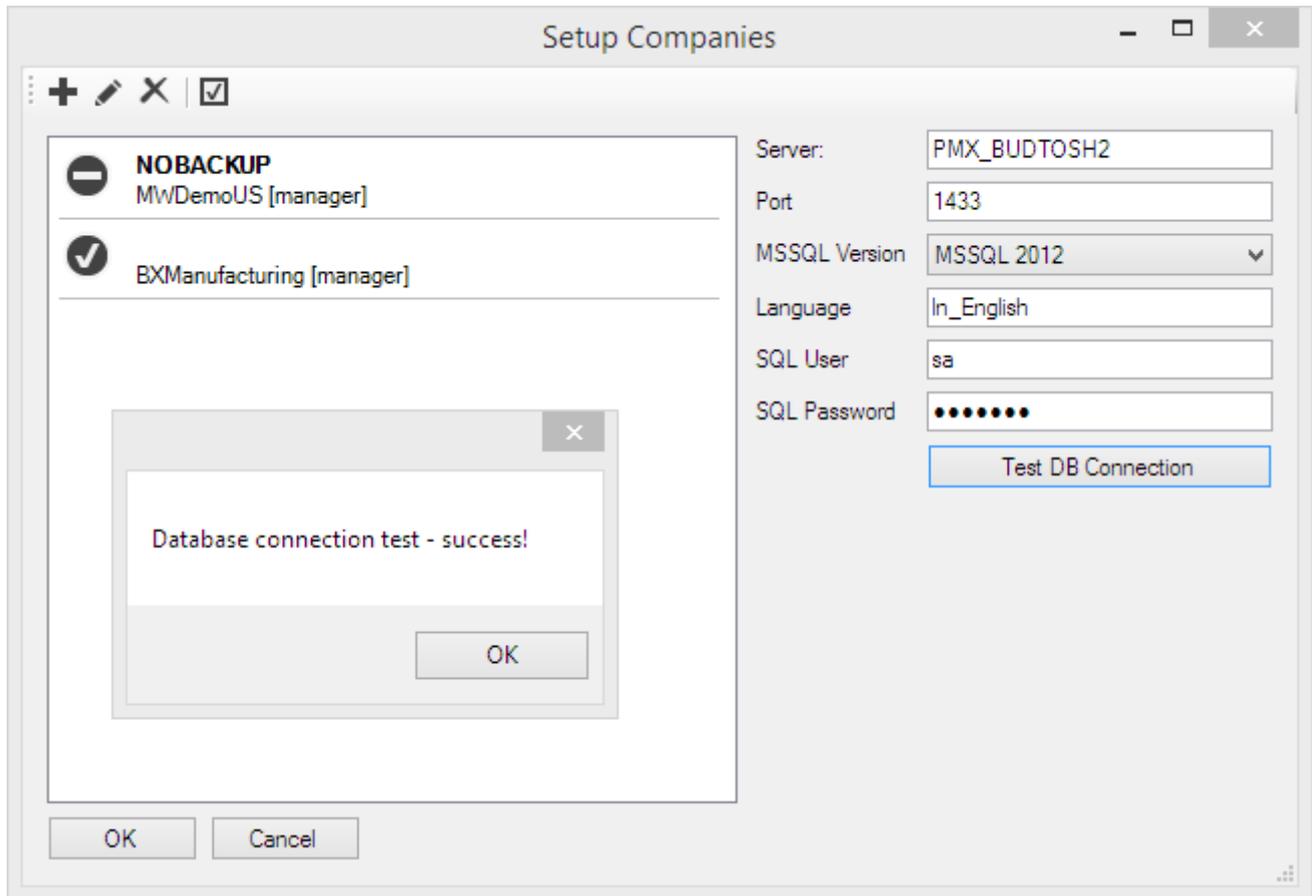


At 'Port' you have to enter the port on which the application can connect to the SQL Server. It is usually 1433, however, if you have a named instance in the SQL server, then you have to check the actual port in the SQL Server Configuration Manager. You have to select your SQL Server instance then right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



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

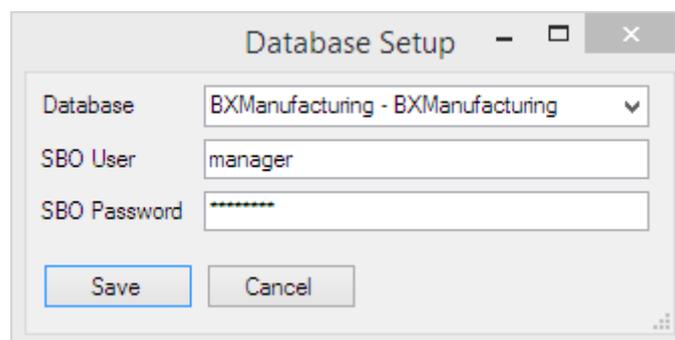
If you have the port number, you have to choose MS SQL version number and enter the SQL Server user name and password. If you click on Test DB Connection, Service Manager will try to connect to the SQL server with the given data. If everything is ok, you will get a message: Database connection test -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



Add new database

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

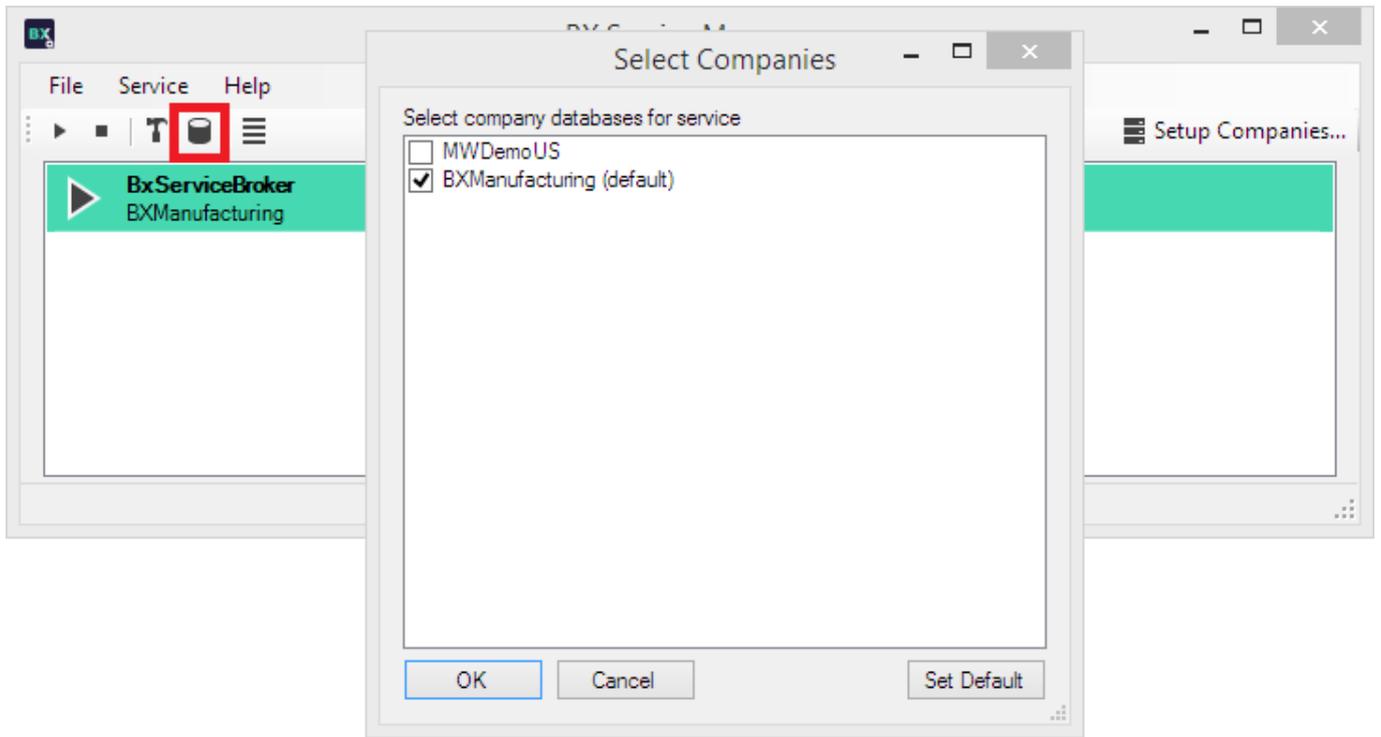
On the 'Database Setup' window select the Database then enter an SBO User and its password to create the connection to the database. The Service Broker will use this user to create the SAP documents. The user must have rights and licenses to create stock related bookings in SAP (delivery, goods receipt PO, stock transfer, etc).



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

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

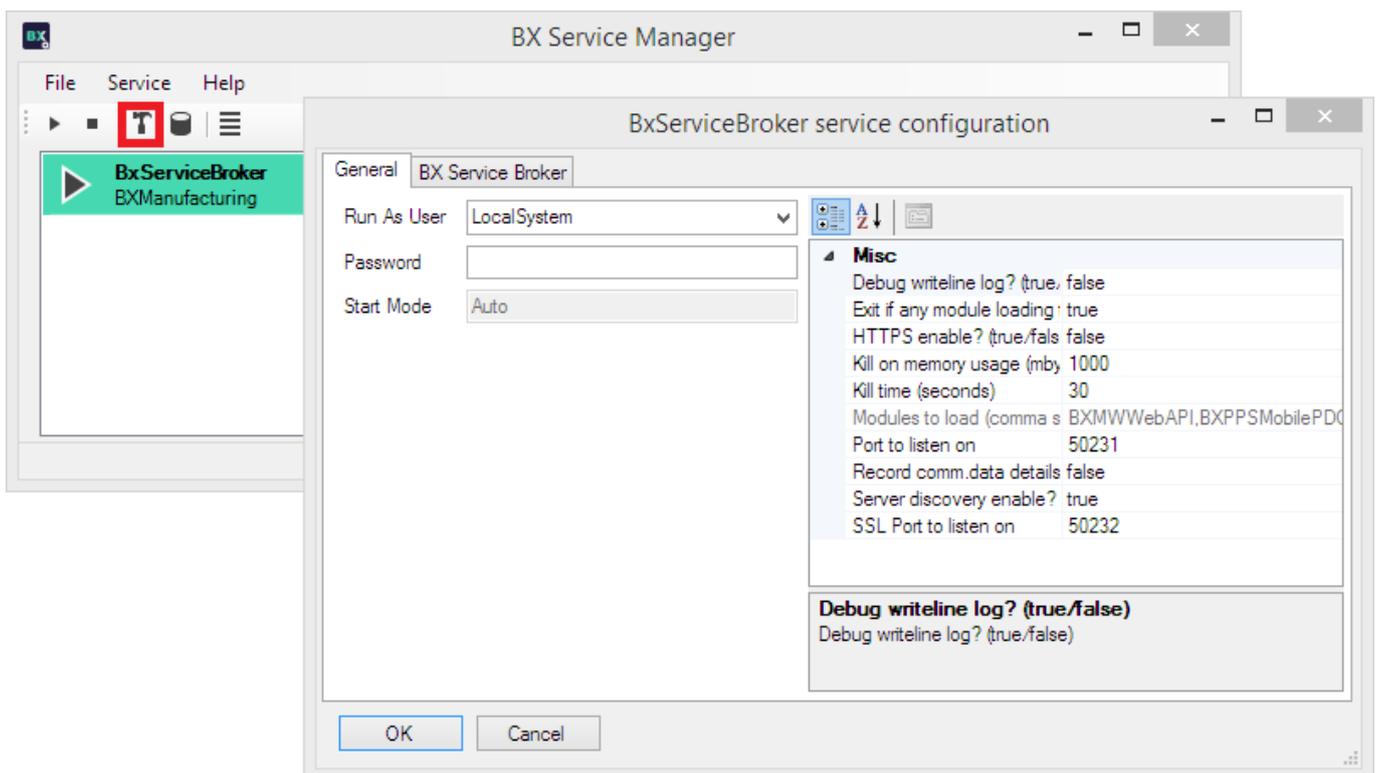
Now you have to assign your companies to the BX Service Broker and other BX services. To do that click on the Companies button in the line of the service.



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Configuring BX Service Broker

The BX Service Broker can work together with different BX 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.



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 BX-Software support asks you to do that.

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

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

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

- If you are using BX Manufacturing (BX PPS), you should set it to BXPPSMobilePDCWebAPI.dll
- If you are using BX Mobile Warehouse, you should set it to BXMobile Warehouse WebAPI.dll
- If you are using Produmex Operator, you should set it to BXMWWebAPI.dll

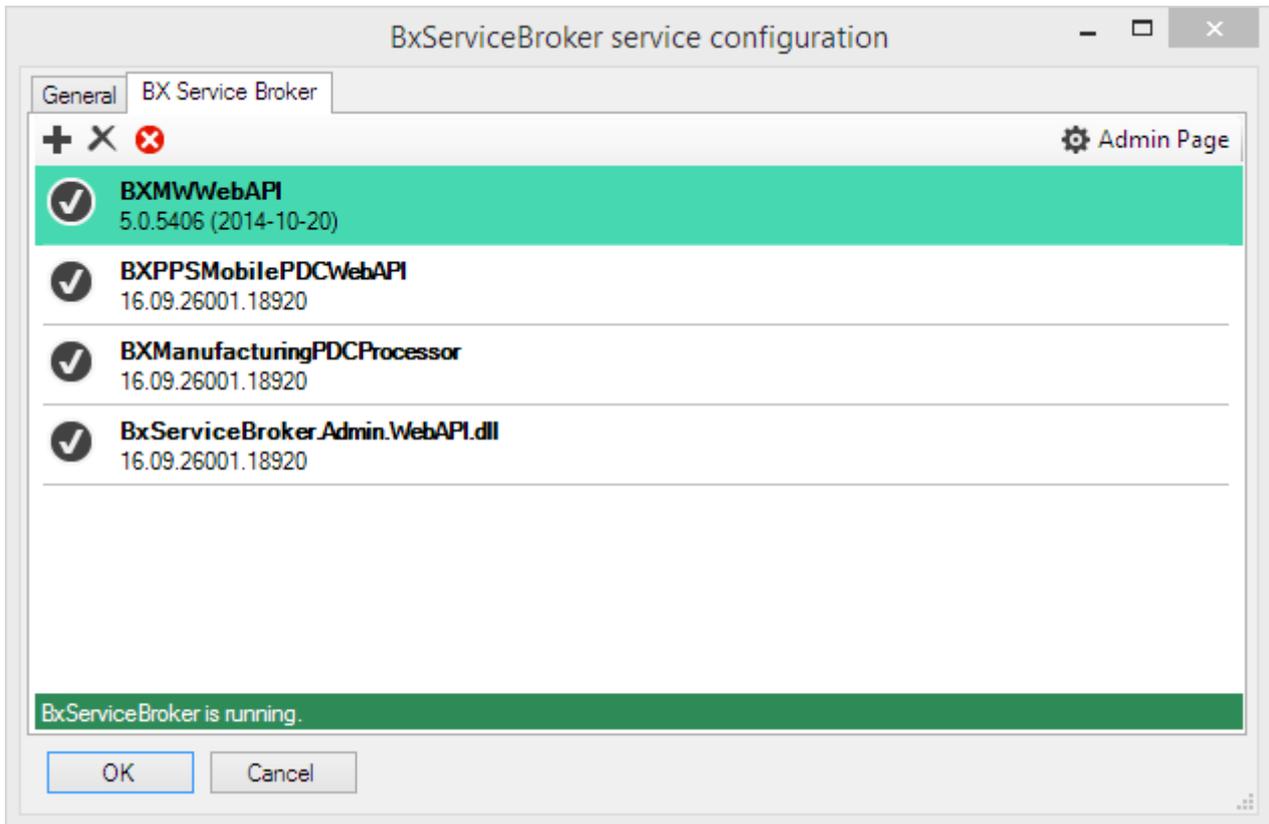
Please note: It is automatically done by the module installer for you, so you only have to set this manually in specific cases.

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

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

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

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

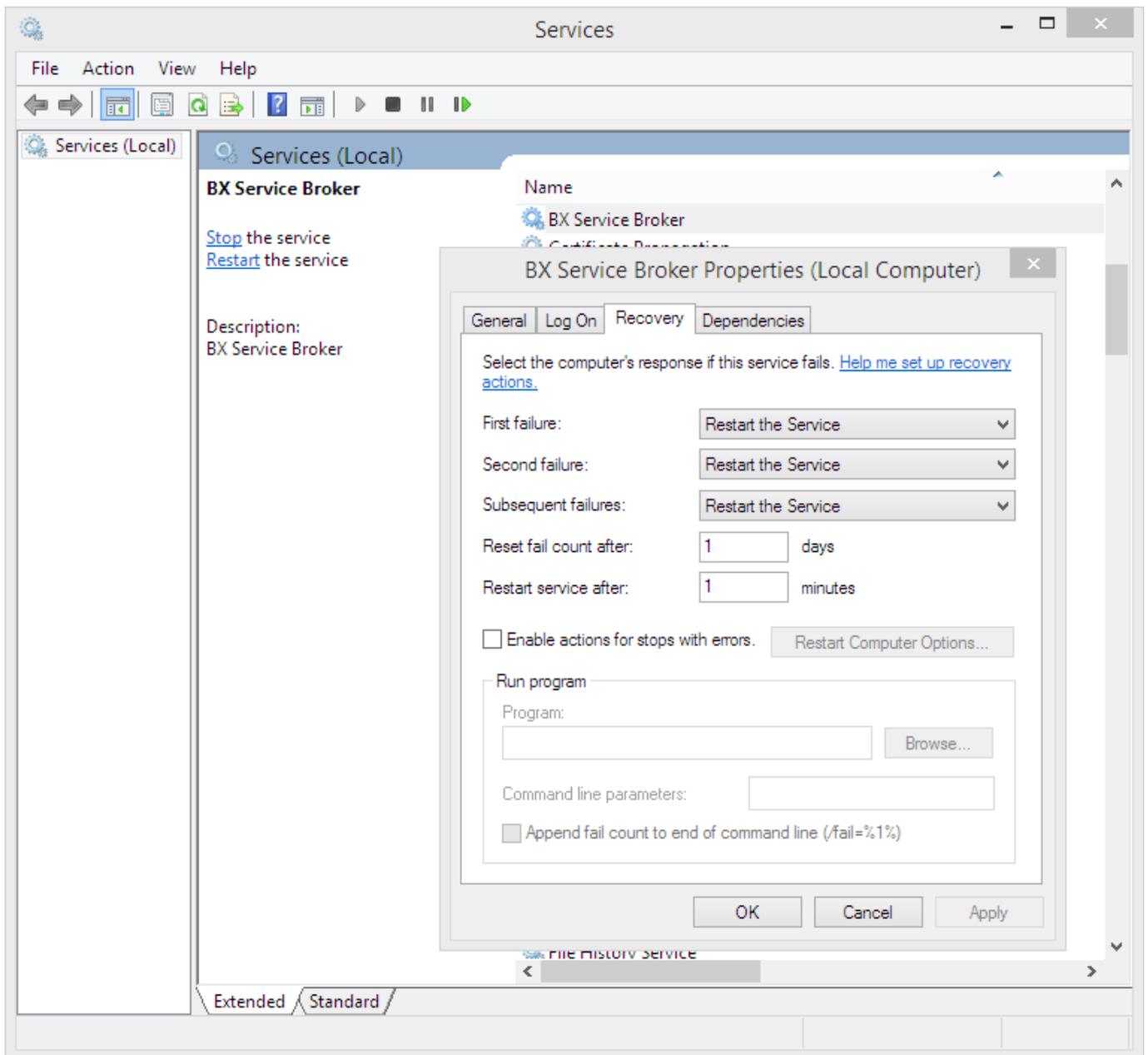


If you see OK beside the module name, it means it could be loaded successfully. If a problem arises, you will see error beside the module name.

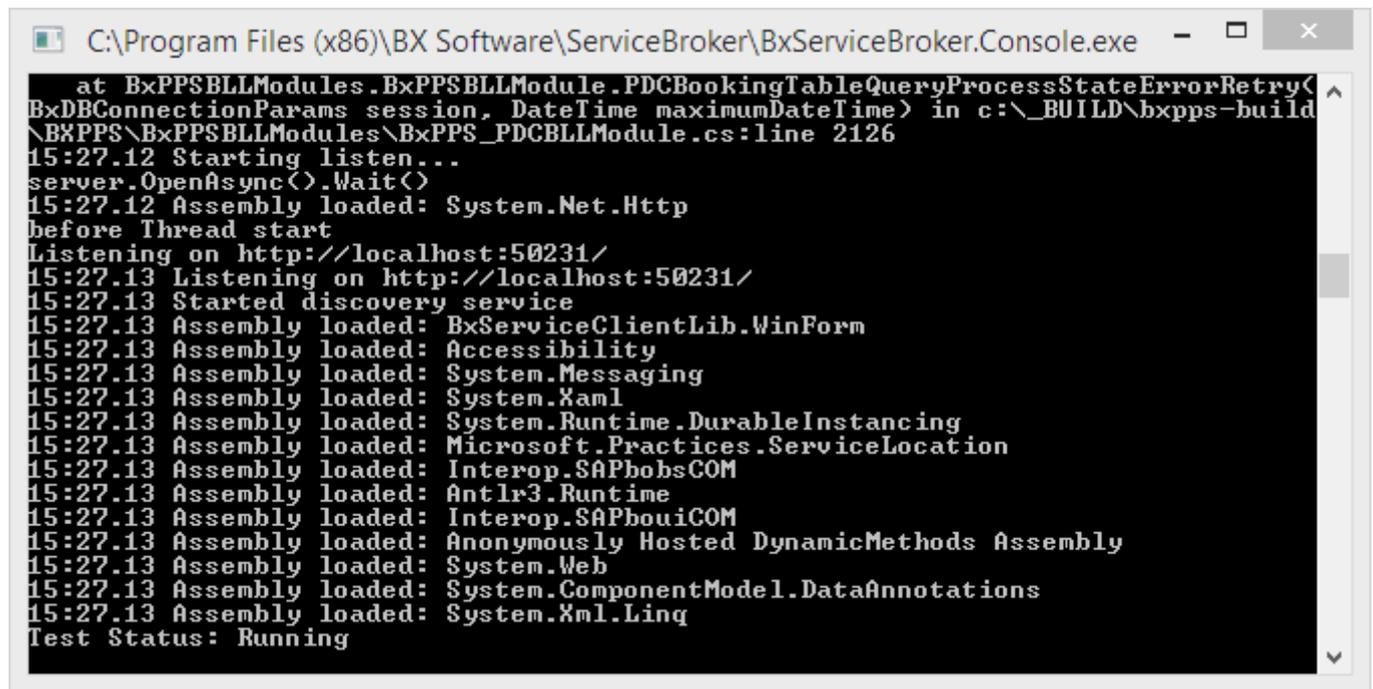
Start BX Service Broker

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

You can also stop or start the services from windows service manager, but you cannot change the BX 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)\BX Software\BX Service Broker\BxServiceBroker.Console.exe” (or BX Service Broker (Console) program in the windows start menu) and you will see a window like this:

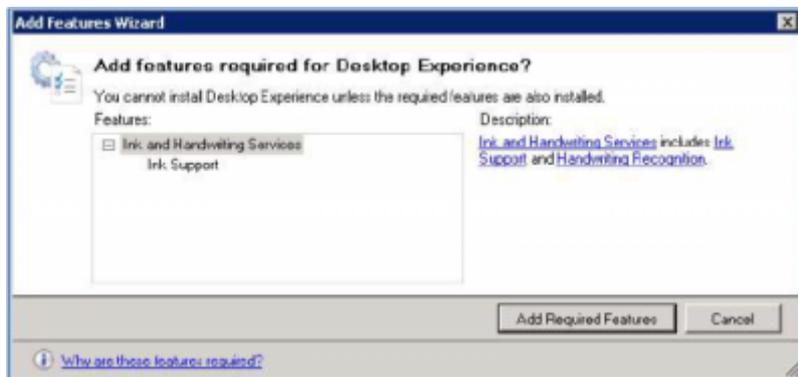
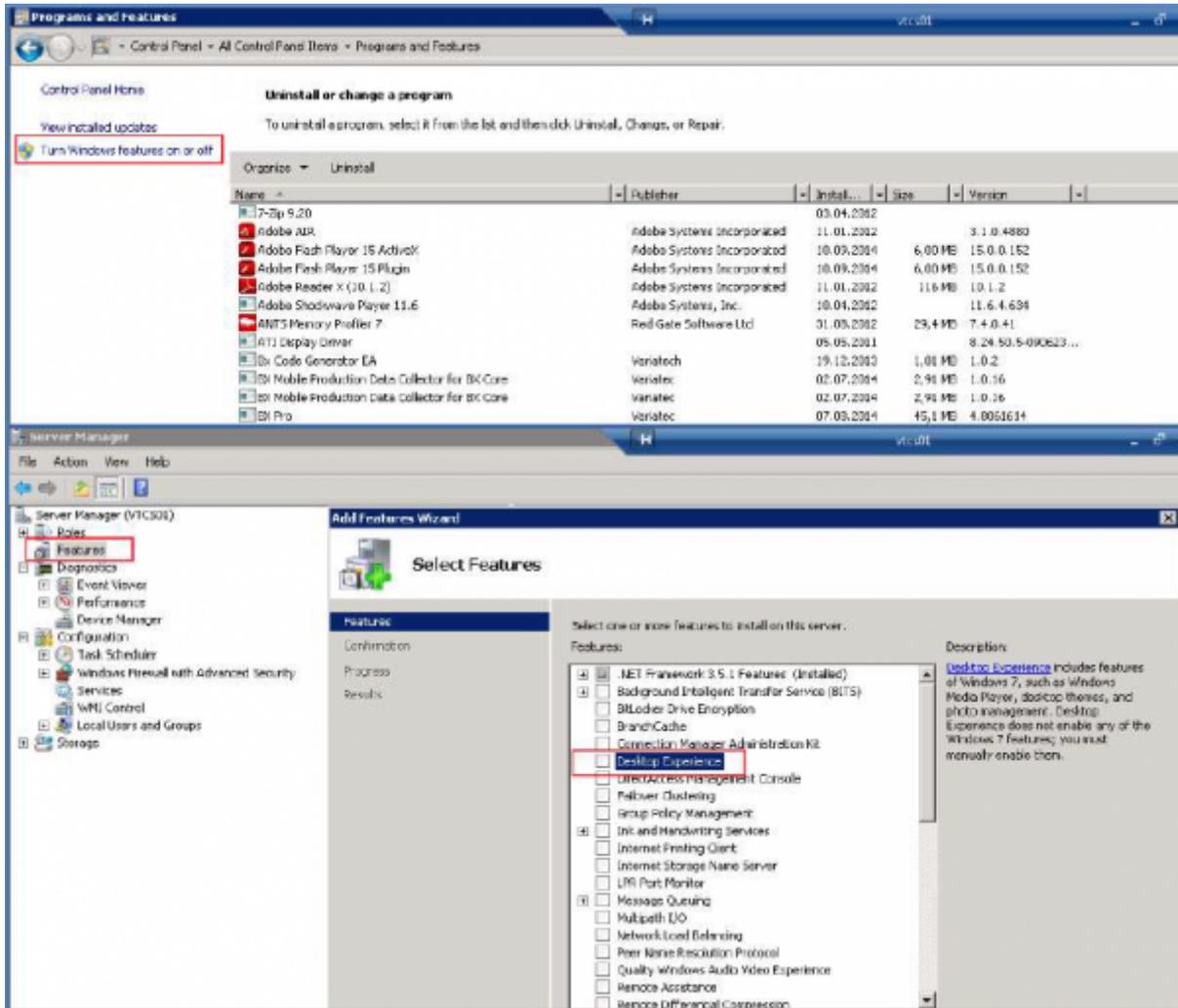


Please note: The use of the command window is recommended for debugging purposes. In production environment the use of the service is more efficient.

2.3. Installing the BX Mobile Warehouse Client Application

In order to run the BX Mobile Warehouse 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. You can download it from here:

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: <http://download.microsoft.com/download/7/3/5/735ec6ea-7607-4e56-a5f0-f7672443727e/drvupdate-x86.exe>
- 64 bit: <http://www.microsoft.com/en-US/download/details.aspx?id=3182>

If it is not installed, you will get a message during installation that active sync is needed. You can download the 64 bit package from here: <http://download.microsoft.com/download/0/4/3/0432540e-2d1a-415d-9c9da9963e43503e/drvupdate-amd64.exe>

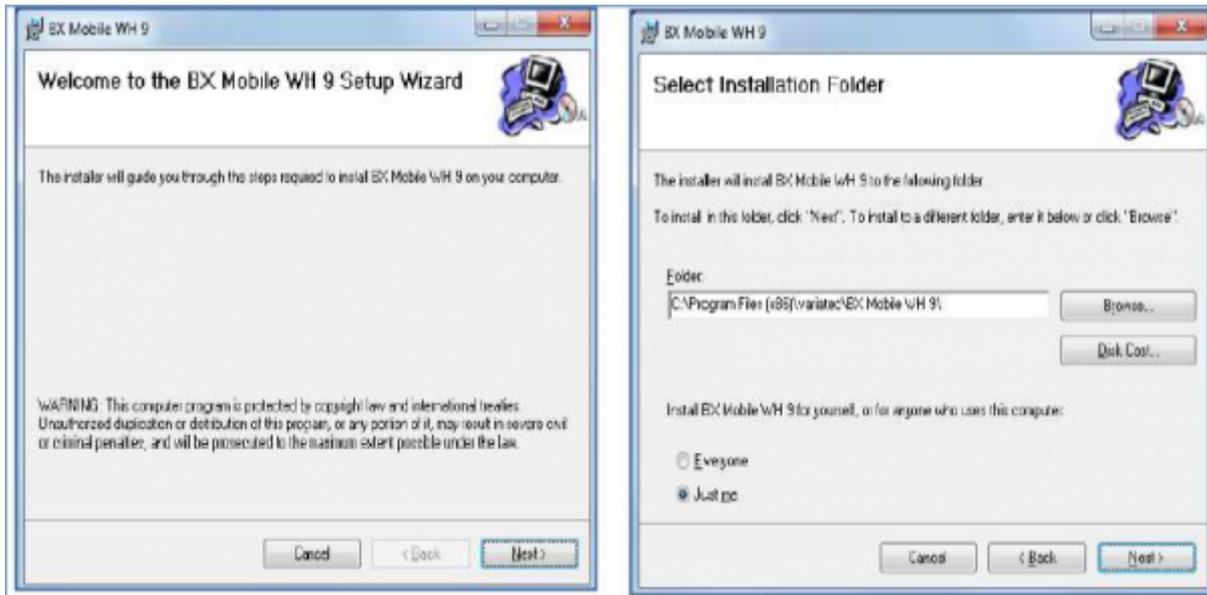
For 32 bit systems with windows 8 or 8.1 it is enough to run windows update, download all updates

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.

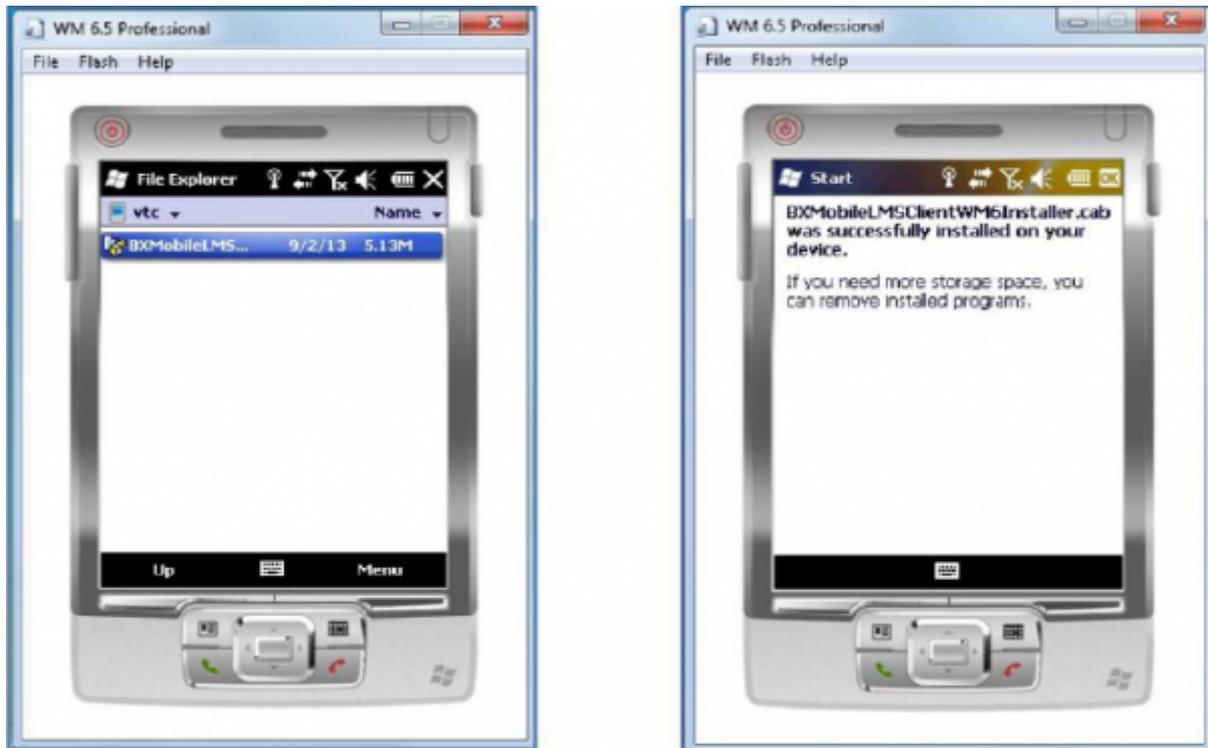
Cradle the mobile device on your computer. Then run the BX Mobile Warehouse Application setup file contained in the BXMobileWarehouse_Client_20131126_WM6.zip file (or similar) on the host computer with administrator rights.



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 BXMobileWarehouseClientWM6Installer.cab from c:\Windows\WindowsMobile\BXMobileWarehouse\ to your mobile with Windows Mobile Device Center, and then run it in the mobile device.



You can find the configuration form and the application among the installed programs (under the start menu). When started for the first time, it will open the configuration window.



When you already configured it, it will open the login screen instead. If you want to start the configuration again, you have to start "Configure BX Mobile Warehouse" on the mobile device. On the configuration screen you have to set the server URL to where the mobile device will connect. It is the IP address of the server where the Service Broker is started and the port number (which is 50231 as default). So for example the URL is <http://192.168.103.3:50231/> on the screen below:

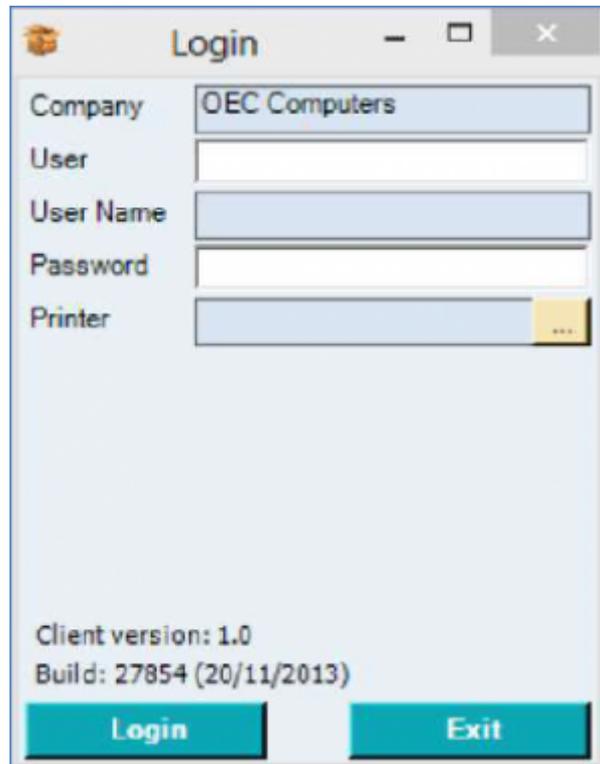


When you leave the Server URL field, the application tries to connect to the Service Broker. If connection fails for some reason, you will get an error message; otherwise the database name that is assigned to the Service Broker will appear under the Server URL.

The Language field determines the language in which the client application will start up. It can be By Server which means that it is configured on the server (not implemented yet), By Client which means the language is determined by the language of the mobile device. Apart from those settings you can set the language directly as English, German and Hungarian (these are the supported languages for the time being).

Window layout can be 'normal' or 'maximized borderless'. The latter is recommended to be set in Windows CE. Do not Use Built-in OS Buttons checkbox can be used to let the system know not to fall back on the operating system default control buttons. It is recommended to be set in Windows CE and desktop mode.

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



Client version: 1.0
Build: 27854 (20/11/2013)

Remember that you should enable the “Do not Use Built-in OS Buttons” setting in the client configuration to benefit from the best look & feel for the desktop mode.

3. Setting Up the Master Data in the Add-on

To be able to use the mobile application you have to set up the master data in the Mobile Warehouse add-on. If you want to print labels from the mobile application, you have to set up the printers and the label layouts that you want to use. You also have to set up the employees that can use the mobile application and their rights for the specific mobile functions.

3.1. Setting Up the Printers

You can set up the printers at Administration>Setup>Inventory>BX Mobile Warehouse>Printers Setup. You can enter the printers either with IP Address or with their name on the server. Currently Zebra printers and crystal reports are supported (you can select them at Printer Type).


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^XA
^PW632
^LL0472

^CWD,E:ARI000.FNT

^CFD,24
^FT434,270^FDItem:^FS

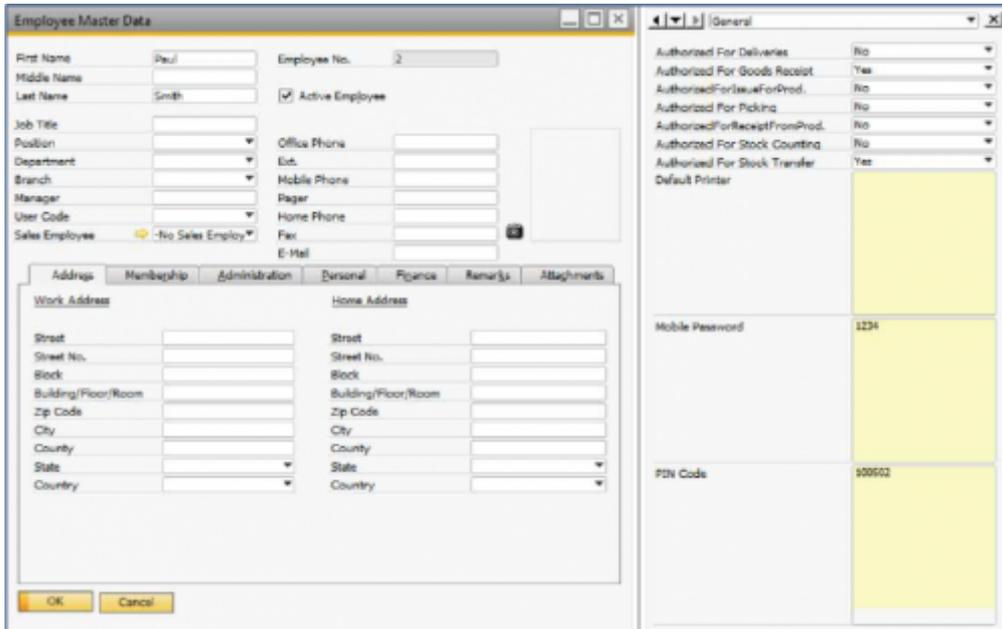
^CF0,24
^BY3,3,95^FT135,170^BCN,,Y,N
^FD{Quantity} {OITM.InvntryUom}^FS
^FT492,270^FD{OITM.ItemCode} {OITM.ItemName}^FS
^PQ1,0,1,Y^XZ
    
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3.3.3. Bin Code Layout

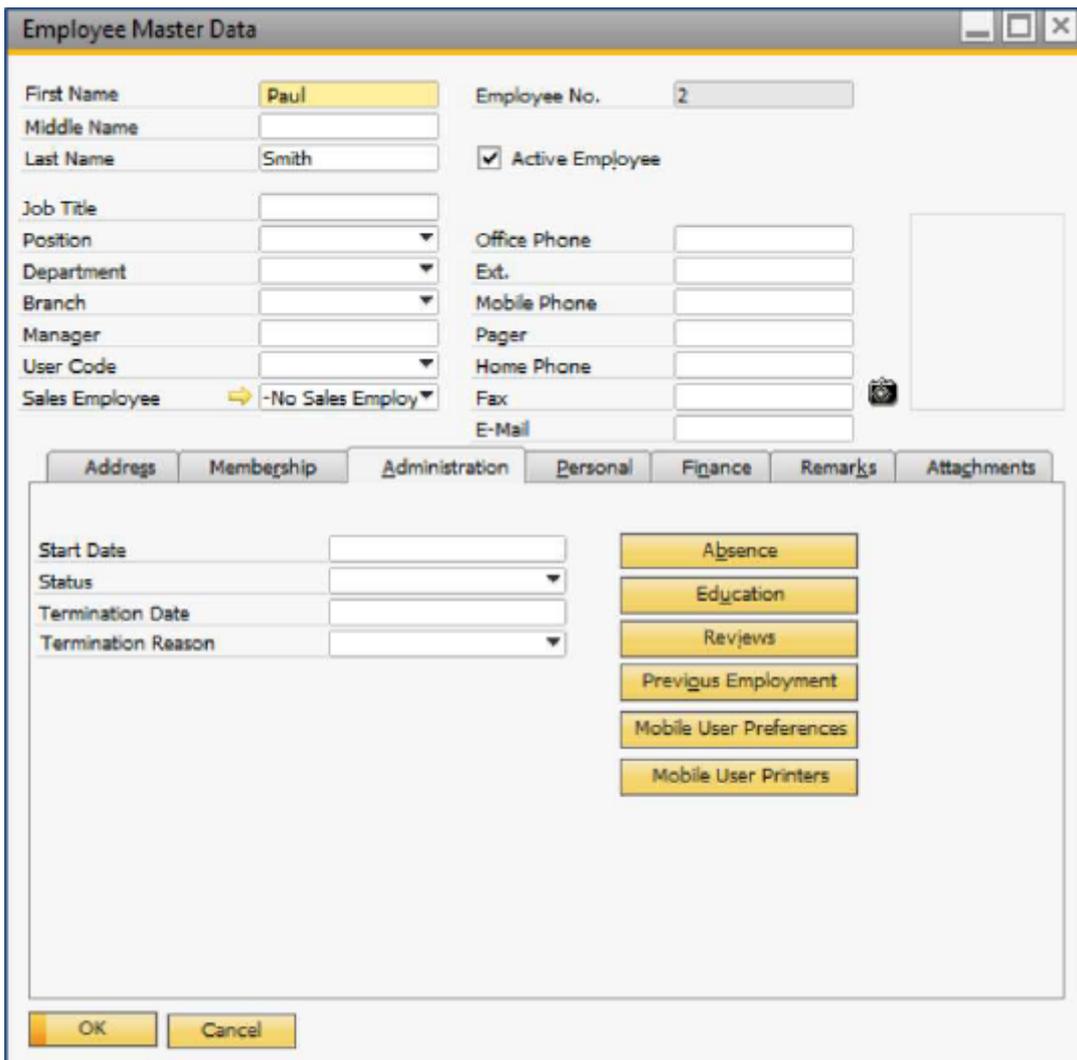
Zebra ZPL	Crystal Reports
ZPL file is printed for every bin location found for the given mask.	Crystal report file is run once with the mask as the parameter:
Placeholders:	Parameters:
{OBIN.BarCode} {OBIN.BinCode} ... (Every field including user fields are available from OBIN table, reference it with the database column names)	BinCodeMask - Bin code mask with * eg. 01-A-1-1*
{ {OOIITMM...IItteemmCNaodmee} } {OITM....} ... {Quantity} {OBTN.BatchNumber} {OBTN.CreationDate} {OBTN....} ... {OSRN.MnfSerial} {OSRN.DistNumber} {OSRN....} Every field (including user fields) available from OITM table For batches only: every field (including user fields) available from OBTN table For serials only: every field (including user fields) available from OSRN table	ItemCode BatchNumber SerialNumber Quantity

3.4. Setting Up Employees

You can set up the employees at Human Resources>Employee Master Data (SAP standard function). Here you have to open the satellite form for UDFs (with CTRL+SHIFT+U) and then you can set the user rights, the default printer for the employee and the user code/password for the mobile application.

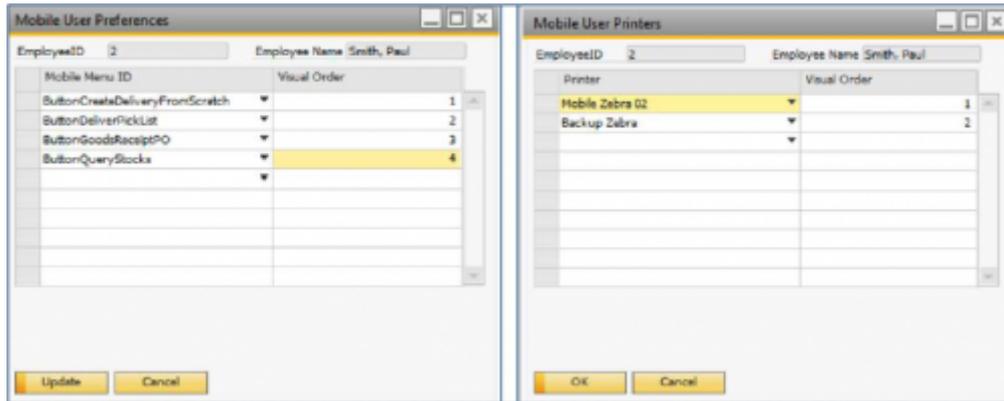


Note: you can either use the Employee No. or the PIN code to log in on the mobile device. On tab Administration you have the mobile user preferences and the mobile user printers buttons (usually they are accessible from the right click menu, too):



With the Mobile User Preferences button you can define the menu elements and their order for the

employee.



Items with smaller visual order come first in the screen.

With button Mobile User Printers you can define the printers the employee can access in the mobile application. The visual order determines the order of the printers when they are shown.

4. BX Mobile WH 9 Settings

Settings for the system can be found in the add-on, under Administration>Add-Ons>BX Mobile WH9>BX Mobile Warehouse Settings.

4.1. General



Field	Description/Activity
Don't translate trace	If this checkbox is checked, the trace will be displayed in English. Otherwise it will be displayed in the language currently set.
Advanced Progress Bar	If this checkbox is checked, the system will display the BX Mobile Warehouse Advanced Progress Bar instead of the Business One Progress Bar. We recommend using the BX progress bar, as at long processes SBO progress bar can stop.
DisplayTimeUoM	The default Time Unit of Measure for operations.
Company Logo	The company's own logo, used in reports. Path to image file requested.
BxBackOffice Server URL	This setting is not in use in BX WH9 If PDC Booking is running on a separate server, the server's URL can be set here.
Chart XML Folder	The Work Center Usage form will create an XML file inside this folder, from the data of the WCU chart. If this setting is not set, the system will use the "C:\Documents and Settings\%Username%\Application Data\BX\XML" folder, where %Username% means the user currently logged in.

Field	Description/Activity
Bx Support Business Partner	If an error occurs, a message box is displayed with the error details. You can send the error message to Support from this message box. You will need to set a Business Partner first (for example: BX Support), and set the Contact Person's email address. Set this Contact Person's code for the Bx Support Business Partner field. You have to set up SBO Mailer for this function to work.
Name of last started AddOn	This is an internal field, containing Name of the last started add-on.
Date of last started AddOn	This is an internal field, containing Name of the last started add-on.
Time of last started AddOn	This is an internal field, containing Time information about the last started add-on.
Use Message Board	The message board lets add-ons communicate with each other. In some cases, events are forwarded to non-BX add-ons. In this case, turn this setting off, but in this case communication between BX add-ons will stop.
TxSyncServer URL	Used in the Document Management System add-on. Not used in BX Production.
Seconds of last started AddOn	This is an internal field, containing information about the last started add-on.
Grid Row Count Decrease Number	Decrease height of form grid to allow buttons being correctly seen at the bottom of the window. Positive integer needed. Useful if you have SAP 8.8 or higher with a low resolution monitor and the buttons are in the grids.
Close Stucked AddOns	If this checkbox is checked, when the add-on is starting it will kill any other instance of BXWH9AddOn.exe. Only one BX WH add-on can run at a time.
Enabe BX statusbar (SBO 8.8 or above)	BX addon has it's own statusbar. Sometimes there were SAP errors, using SAP default statusbar.
Do Not Use GetAsXml	This setting is not in use in BX WH9 When BX addons request table information, we can use GetAsXml SAP function. Sometimes there were SAP DI errors, in this case we can use a BX function to request the data.
Password for DI Connection	Modify DI connection mode to work around for SAP 9.0 pl9 hotfix 1 bug by direct DI connection

4.2. SQL



Field	Description/Activity
ADO.NET SQL Username	The User name for the MS SQL database (usually sa). Scripts use this setting (for example for upgrading a database).
SQL Time out in seconds	SQL Timeout setting for SQL queries.
Validator SQL Timeout	This setting controls how long the system will wait for a response for SQL queries. If a timeout is reached, the system will throw an exception, and the query is canceled.

4.3. Logs

Field	Description/Activity
Auto Purge Audit Logs in days	The add-on logs each database transaction in the Audit Log table. This log can be deleted automatically in the interval set here. The default setting is 30 days.
Keep Audit Logs in days	The system deletes the log entries, which are older than the number of days set here.
Log resource strings	If this checkbox is checked, the system logs every Resource String from open forms to a log file in the BX Log folder.
Logging Level	Sets which events are logged (errors, warnings, information, both). The default path is: "%System Folder%\Documents and Settings\%Username%\Application Data\BX\Logs"

4.4. Reports

Field	Description/Activity
Report Layout Folder	The folder which contains the RPT files for reports.
Report Output Folder	The folder which will contain the generated PDF files for reports.
Paper Size (Reports)	Paper size for reports. Example: A4, A3
Paper Orientation (Reports)	Paper orientation for reports. Example: portrait, landscape
Printer Name (Reports)	Printer name for reports.
Print Preview (Reports)	If this checkbox is checked, the system will generate a PDF file from the Print Preview, before printing.
Preview with Watermark	This checkbox is not used currently.

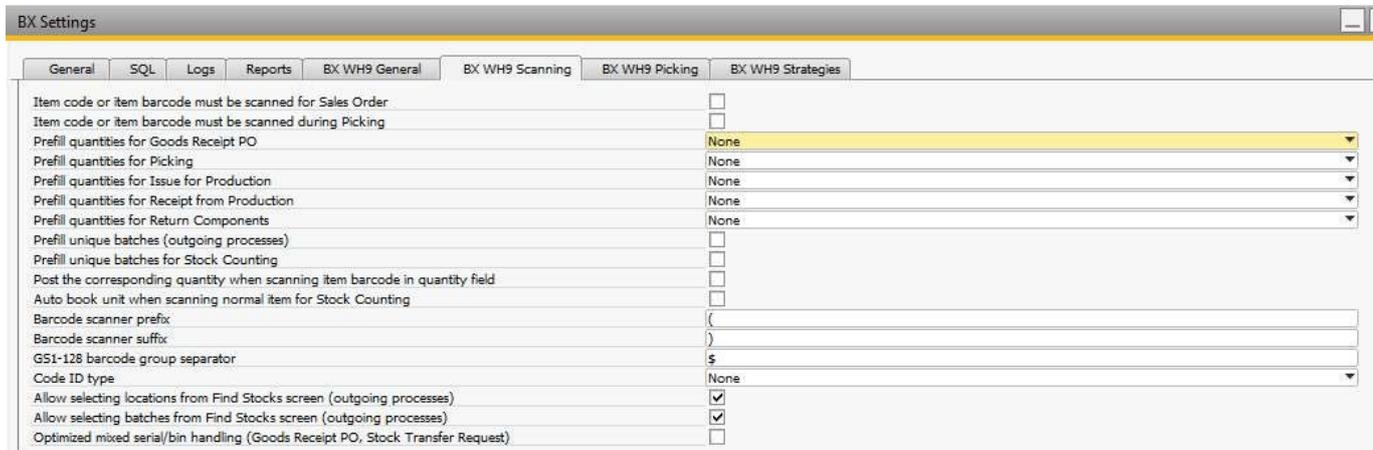
4.5. BX WH9 General

BX Settings							
General	SQL	Logs	Reports	BX WH9 General	BX WH9 Scanning	BX WH9 Picking	BX WH9 Strategies
Maximum number of documents to display (more than 20 may cause performance issues)							20
Maximum number of serials/batches to display (more than 100 may cause performance issues)							100
Enable multi-item Stock Transfers							<input type="checkbox"/>
Ignore special lines when creating Documents							<input type="checkbox"/>
Exclude Sales Orders when checking allocated quantities							<input type="checkbox"/>
Sales Return document location must be the same							<input type="checkbox"/>
Credit Note document location must be the same							<input type="checkbox"/>
Keep base document line order for Delivery (instead of picking order)							<input type="checkbox"/>
Display all sheet bin locations for Quick Counting							<input type="checkbox"/>
Sticky destination location for Stock Transfer Requests							<input type="checkbox"/>
Keep focus on prepared line (all processes)							<input type="checkbox"/>
Display completed Stock Transfer Request lines at the end of the list							<input type="checkbox"/>
Goods Receipt PO quick refresh mode							<input type="checkbox"/>
Timeout for messages (except for errors, seconds)							0
Diagnostic Client Log settings							*
Don't show icons on main menu (use buttons instead)							<input type="checkbox"/>
Detailed mobile log							<input type="checkbox"/>

Field	Description/Activity
Maximum number of documents to display in all processes (more than 20 may cause performance issues)	The maximum number of lines in the lists (eg. list of Purchase Orders, etc)
Maximum number of serials/batches to display (more than 100 may cause performance issues)	If you work with serial/batches numbers, with this setting you can limit the number of the displayed items.
Enable multi-item Stock Transfers	It allows to park transactions before you post them.
Ignore special lines when creating Documents	It is enable, the text lines of a sales order won't be copied to a delivery.
Exclude Sales Orders when checking allocated quantities	It is related to sales order. If it's enable the allocated qty of sales order can be used.
Sales return document location must be the same	Items can only be returned to the same bin location.
Credit note document location must be the same	Items can only be returned to the same bin location.
Keep base document line order for Delivery (instead of picking order)	It is related to setting 'Ignore special lines for documents'.
Display all sheet bin locations for Quick Counting	It is enable all bin location will be displayed for quick counting.
Sticky destination location for Stock Transfer Requests	If enabled, the last To: location will be remembered during processing Stock Transfer Request, this can be convenient if STR items are put in the same destination location (maybe a cart, pallet, etc.)
Keep focus on prepared line (all processes)	If enabled, the last To: location will be remembered during processing Stock Transfer Request, this can be convenient if STR items are put in the same destination location (maybe a cart, pallet, etc.)
Display completed Stock Transfer Request lines at the end of the list	At Stock Transfer Request process the processed lines will be shown in the bottom of the list.
Goods Receipt PO quick refresh mode	Enable for GR/PO quick refresh mode.
Timeout for messages (except for errors, seconds)	Warnings, Information messages, are closed automatically after the time set at this field.
Diagnostic Client Log settings	Special option for collecting error logs from the mobile client. Only use when instructed by BX support.
Special option for collecting error logs from the mobile client. Only use when instructed by BX support.	Display only simply buttons with no icons.

Field	Description/Activity
Detailed mobile log	Only for picking and stock transfer. More details are recorded in to table: @BXPLMSMOBLOG

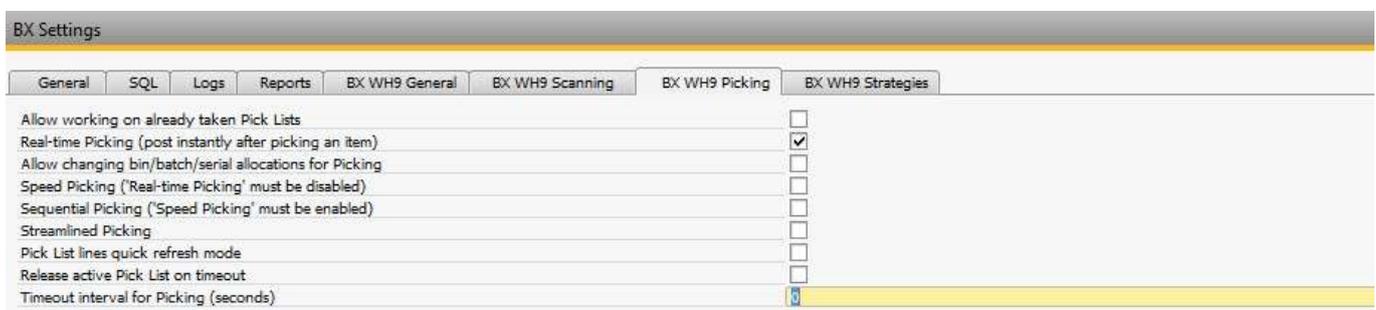
4.6. BX Mobile WH9 Scanning



Field	Description/Activity
Item code or item barcode must be scanned for Sales Order	If this option is enabled, then the item code or the item’s bar code must be scanned when delivering the sales; otherwise the item is prefilled and doesn’t need to be scanned.
Item code or item barcode must be scanned during Picking	If this option is enabled, then the item code or the item’s bar code must be scanned during picking; otherwise the item is prefilled and doesn’t need to be scanned.
Prefill quantities for Goods Receipt PO Prefill quantities for Picking Prefill quantities for Issue for Production Prefill quantities for Receipt from Production Prefill quantities for Return Components	Prefill quantities (separate options for different processes): None: No prefill will be used for this task. Open: The system will fill in the quantities of all receives as the full expected or full remaining expected quantity. For example: if the order is 20 and 5 have been received, the system will default the next receive for 15. Unit: The system will fill in the quantities with one unit.
Prefill unique batches (outgoing processes)	For unique prefixed batch numbers. With this setting it will be filled out automatically.
Prefill unique batches for Stock Counting	For unique prefixed batch numbers. With this setting it will be filled out automatically. At Stock Counting.
Post the corresponding quantity when scanning item bar code in quantity field	When scanning an item’s bar code into a quantity field, a quantity of 1 for the corresponding UoM is pre-filled; if this option is enabled, the quantity is automatically posted/added, otherwise the user has to press the Add/Update/Post button.
Auto book unit when scanning normal item for Stock Counting	When doing inventory counting, scanning a barcode automatically counts a unit (eg. 1 piece, 1 carton) for the item
Barcode scanner prefix Barcode scanner suffix	If the barcodes contain prefix/suffix characters that should be removed before processing it, you can specify it here. Eg. if you have a (and) prefix/suffix, the printed item barcode can look like (A1000) which will be processed as A1000.
GS1-128 barcode group separator	Group separator character for GS1-128 type barcodes. Example: \$

Field	Description/Activity
Code ID type	For GS1-128, there are two international standards, the Symbol standard and the AIM standard. With Symbol CodeID, the scanned input text is prefixed with (K for GS1128. Currently only Symbol is supported.
Allow selecting locations from Find Stocks screen (outgoing processes)	If enabled, the Find Stocks button on the Pick List - item quantities screen allows to select an location.
Allow selecting batches from Find Stocks screen (outgoing processes)	If enabled, the Find Stocks button on the Pick List - item batches screen allows to select an existing batch.
Optimized mixed serial/bin handling (Goods Receipt PO, Stock Transfer Request)	At GR/PO lines screen you have to enter the bin locaion and serial. With this you can save one step

4.7. BX Mobile WH9 Picking



Field	Description/Activity
Allow working on already taken Pick Lists	It is advised for an extend pick list. More than one user is allowed to pick the items included in the list.
Real-time Picking (post instantly after picking an item)	If enabled (default) every picking action instantly updates the SAP Pick List document.
Allow changing bin/batch/serial allocations for Picking	If enabled, the bin/batch/serial numbers are allowed to be different than what is specified in the Pick List.
Speed Picking (Real-time Picking must be disabled)	If it is enabled, the lines from the selected picklist are loaded only once, when the Picking screen is first opened for that pick list. The selection automatically jumps onto the next un-picked line following the line last picked; this is another improvement to simplify the picking process.
Sequential Picking ('Speed Picking' must be enabled)	If it is enabled, the entire control stays basically in the Picking Line Details screen, and the control jumps back to the Pick List screen only after the last line has been picked. The user can always jump back with the Back button, of course.
Streamlined Picking	Enables a special POS-like mode for picking where all items are picked from a single bin location or non-bin warehouse. In this case, scanning an item code or barcode automatically adds a quantity of 1 (can be changed on the screen) to the picked quantity.
Pick List lines quick refresh mode	When picking from a non-bin warehouse the Pick List - lines screen can be set to only refresh the current line data (quantities), not the whole list.

Field	Description/Activity
Release active Pick List on timeout	During picking, the Pick List is allocated to the working employee. If there is a timeout and the worker is forced to the main menu, if this option is set the pick list will be reset to be available to others.
Timeout interval for Picking (seconds)	If specified, the worker is forced to the main menu from picking after this many seconds of inactivity.

4.8. BX Mobile WH9 Strategies

BX Settings

General SQL Logs Reports BX Mobile WH9 BX Mobile WH9 Scanning Strategies

Incoming strategies user query name	bx_mobile_wh9_strategy_incoming
Incoming strategies frequency (seconds)	300
Replenishment strategies user query name	bx_mobile_wh9_strategy_replenishment
Replenishment strategies frequency (seconds)	300

Field	Description/Activity
Incoming strategies user query name	The user query name used for the incoming strategy. See also the document: Strategies in BX Mobile WH9
Incoming strategies frequency (seconds)	Number of seconds to run the incoming strategy periodically. 0 = disabled.
Replenishment strategies user query name	The user query name used for the replenishment strategy.
Replenishment strategies frequency (seconds)	Number of seconds to run the replenishment strategy periodically. 0 = disabled.

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