

BranchManager for DOORS

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INSTALLATION MANUAL



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1. Introduction

This document describes the installation configuration of BranchManager for DOORS.

2. BranchManager for DOORS

BranchManager for DOORS is deployed as a standard DXL plugin for DOORS®. The deployment package is provided as a zip file. Simply unzip to any location on your hard drive and follow the launch instructions below. To add the tooling to your client installation, use one of the following methods.

2.1. DOORS launch with standard bat file

Launch the appropriate batch file found in the root of the deployed package.

This will launch the DOORS client with the standard database including the BranchManager features. If you are using a different server/port, edit the launch command within the batch file to point to your database.

2.2. Update your own launch scripts with the plugin location

There are two locations where menus must be added to the DOORS client. The Menus are added at the main level and at the project level.

In your launch script, add the parameters

```
-addins "path/to/BM;path/to/addins"  
-projectaddins "path/to/projectaddins"
```

with "path/to/BM" being the full path to the BranchManager install directory and "path/to/(project)addins" being the path to BranchManager's subdirectories "path/to/BM/menu/EN/(project)addins"

Example batch script:

```
SET BM=J:\DOORS\PLUGINS\BRANCHMANAGER\2.8  
SET ADDINS=%BM%\menu\EN\addins  
SET PROJADDINS=%BM%\menu\EN\projectaddins  
START ...\DOORS.EXE  
    -addins "%BM%;%ADDINS%"  
    -projectaddins "%PROJADDINS%
```

2.3. Update your Windows registry

As an alternative, if you have many DOORS launches that all need to use BranchManager, you can utilize the registry definitions. Depending on your OS version these will be in slightly different locations. Look for registry key

'HKEY_CURRENT_USER\Software\Telelogic\DOORS\9.x\Config'.

In that location, add the location of your installation of your addins and project addins similar to the following:

```
addins = "path/to/BM;path/to/addins"
projectaddins = "path/to/projectaddins"
```

(see previous chapter for details). If the addins / projectaddins value already exist, these values need to be added to the existing value with a semicolon as a separator.

For example:

Name	Type	Data
(Default)	REG_SZ	(value not set)
addins	REG_SZ	branchmanager_doors9_1.5.0.I20131113-win32-x86_64;branchmanager_doors9_1.5.0.I20131113-win32-x86_64\menu\EN\addins
archivedir	REG_SZ	P:\temp\
BrowserName	REG_SZ	C:\Program Files\Internet Explorer\iexplore.exe
DICTIONARY	REG_SZ	AppData\Roaming\Telelogic\DOORS\Dictionary
LOCALDATA	REG_SZ	AppData\Roaming\Telelogic\DOORS\Temp
projectaddins	REG_SZ	branchmanager_doors9_1.5.0.I20131113-win32-x86_64\menu\EN\projectAddins

Diagram annotations:

- Red arrow: Path to source code (points to the registry path in the 'addins' row)
- Green arrow: Path to addins folder (points to the 'addins' data value)
- Yellow arrow: Path to projectaddins folder (points to the 'projectaddins' data value)

For more details on how to centralize DOORS DXL scripts, please refer to <https://www.ibm.com/support/pages/how-centralize-doors-dxl-scripts>

2.4. DOORS database settings

In current DOORS versions, it is possible to include plugins via database settings.

- Start DOORS as the user "Administrator". Navigate to <database name>→Properties→Database→DXL Security
- Set "Enable DXL Restrictions"
- Set or Augment the following values
 - Addins path: path/to/BM;path/to/addins
 - Project addins path: path/to/projectaddins

(see previous chapter for details). If the addins / projectaddins value already exist, these values need to be added to the existing value with a semicolon as a separator.

For example:

Master Database Properties - DOORS

General Access Message of the Day Welcome Screen Discussions Access DXL Security

Edit DXL

Only users with "Edit DXL" power may edit and run DXL

Disable batch mode for users without "Edit DXL" powers

Additional DXL Restrictions

Enable DXL Restrictions

Disable local DXL addins path

Addins path

Layout addins path

Attribute addins path

Project addins path

Disable absolute batch file path

Batch files path

Override DXL home path

DXL home path

DXL home path for Unix (Interop)

2.5. Complex environments

Depending on your DOORS installation environment, different steps might have to be taken to integrate BranchManager into your DOORS environment, e.g., when DOORS client is configured centrally or when DOORS client runs in a Citrix environment. In these cases, your DOORS server administration team should be aware of necessary steps to add a DXL plugin. Please contact us if you have any questions.

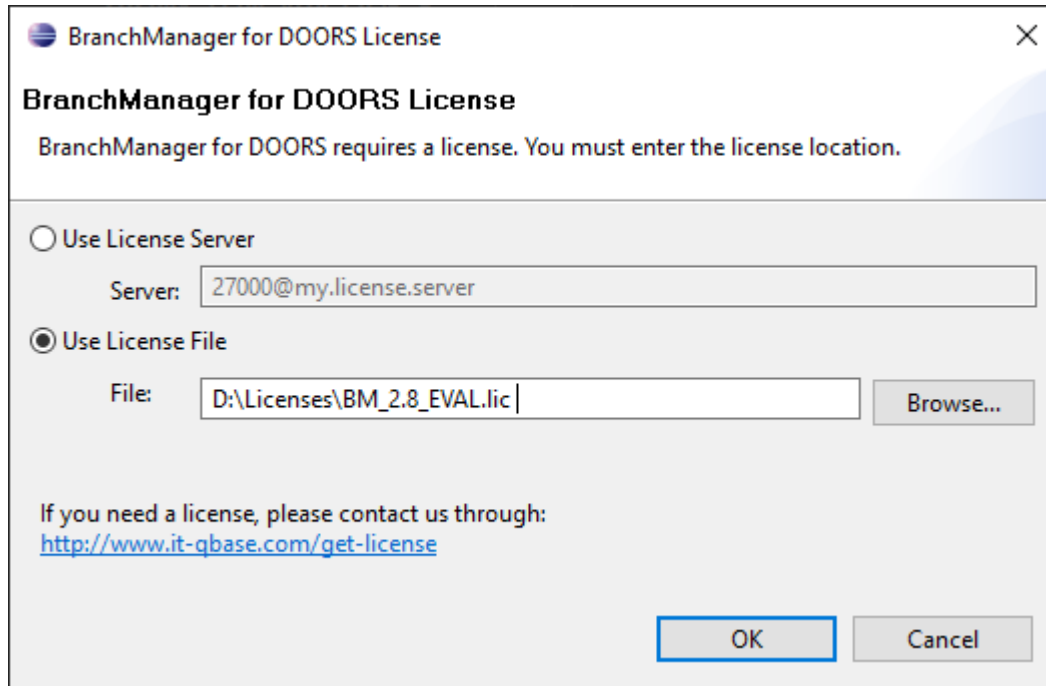
3. License Installation

BranchManager for DOORS® provides several levels of licenses as well as options for floating or node locked licenses. The instructions on configuring and deploying these licenses follows.

3.1. Installing Node Locked licenses

Node locked licenses provide the ability to utilize BranchManager capabilities on the local machine. Configuration is minimal.

1. Store your license file on your local machine.
2. Start DOORS with BranchManager enabled.
3. On the BranchManager menu go to the License Information...
4. In the following dialog provide the path to the intended license file.



You are now ready to use your authorized BranchManager features.

3.2. Installing floating licenses

Floating licenses provide the ability to share BranchManager capabilities across multiple users. You can use any existing FlexLM license manager to set up the license.

System Requirements

IT-QBase License Manager requires a Windows operating system. Other operating systems are not supported.

The required vendor Daemon “tqbase.exe” can be downloaded from our website, it is required to set up floating licenses.

It can be downloaded from:

<http://it-qbase.eu/downloads>

There are minor differences between certain versions and/or releases of FlexLM license servers, potentially requiring other settings or formats. Contact us if you have issues getting your license file to function properly.

3.2.1. Use an existing FlexLM license server

Any FlexNet License Server Manager installed on a Windows server can serve BranchManager licenses without installing a second license manager. Please refer to the “Managing Licenses from Multiple Vendors” chapter of the Flexera License Administration Guide for more information. A common example, using the ubiquitous IBM License Server is described in the following steps:

1. Copy the license file you received to an appropriate location: one common method is to create a common directory with subfolders for each possible service.
2. Copy the `lmgrd.exe` file from the License server directory (i.e. “C:\Program Files (x86)\ibm\RationalRLKS\common”) to the same directory as the license file.
3. Copy the Vendor Daemon **tqbase.exe** to the same directory.
4. Start the LMTOOLS Utility, found in the same directory as the `lmgrd.exe`, or (in this example) can be started from the Windows menu **Start > All Programs > IBM Rational > License Tools**
5. Select the **Config Services** tab in the opened LMTOOLS application.
6. Type in the field “Service Name” **BranchManager**.
7. Fill in the three required paths: Path to the `lmgrd.exe` file, Path to the license file, Path to the debug log file. `lmgrd.exe` looks for the Vendor daemon in the same directory it is located in.
8. Select as desired the settings “Start Server at Power Up” and “Use Services”
9. Click **Save Service**.
10. In the **Start/Stop/Reread** tab, click **Start Server**

This option is available for administrators already familiar with FlexNet based products.

3.2.2. Common modifications to License Files

The license entries provided by IT-QBase GmbH can be modified to work properly in all environments. Some typical modifications are listed here. These modifications of the entries will not invalidate the license.

1. Port number
To specify a particular port number for the FlexLM license server, add the desired port number at the end of the first line, after the server address. Typically, this is a number in the range 27000 – 27009.
2. Server name
The hostname of a server in a license file can be changed.
3. Vendor daemon location
If the vendor daemon executable file, `tqbase.exe`, does not reside in the same directory as the license server daemon, `lmgrd.exe`, the path to the daemon executable can be specified after the vendor daemon name.

4. Vendor daemon port

The license server and the vendor daemon communicate via separate, different ports to the client. The port used by the vendor daemon is chosen randomly. If the license server and BM client are separated by a firewall, the port can be set to a fixed value by specifying a PORT entry in the VENDOR line.

Example:

```
SERVER SRVR-LIC-01 010203a09080e 27002
USE_SERVER
VENDOR tqbase "D:\Common License Path\BranchManager\tqbase.exe"
PORT=12345
```

3.2.3. Set license server information for client

After setting up the license server, the client must know where to look for the license. This can be done using the client or by setting an Environment Variable.

3.2.3.1. Environment Variable

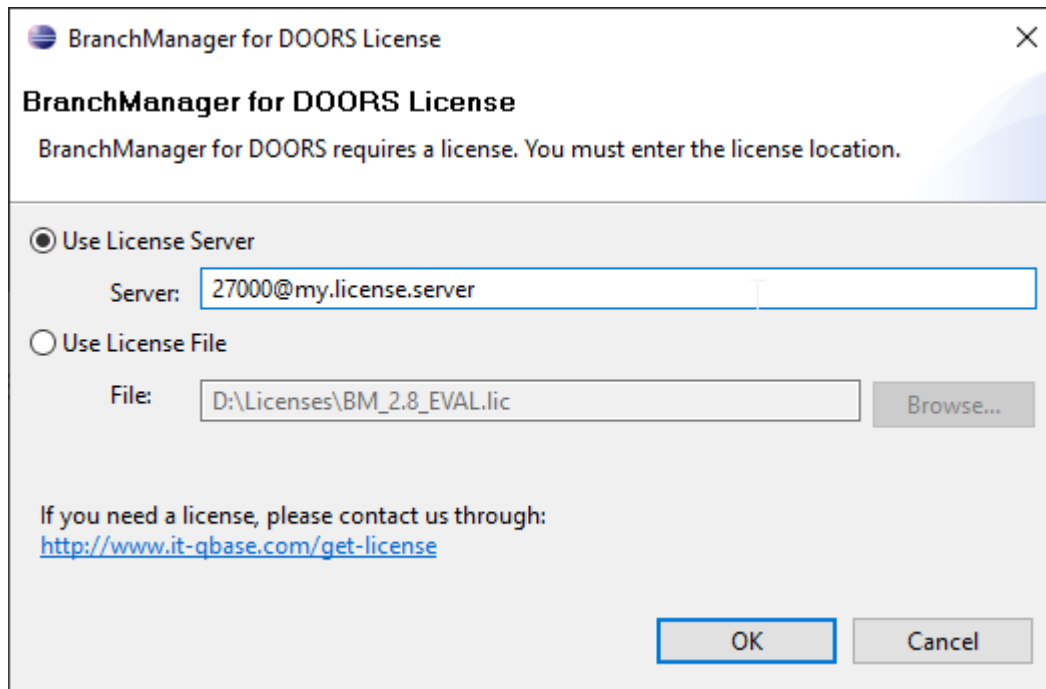
Set the following Environment Variable to inform the client where the license server can be found. This setting takes precedence over setting through the client.

```
TQBASE_LICENSE_FILE=27002@SRVR-LIC-01.example.local
```

3.2.3.2. DOORS Client

To provide a central information about the license using the DOORS client, follow these steps:

1. Start DOORS with BranchManager enabled.
2. On the BranchManager menu go to the License Information...
3. In the following dialog provide the port@servername for connecting to the license server, press OK.



This will store the provided information in a file
 “%USERPROFILE%\branchmanager\preferences.xml” (user specific setting)

4. Optionally, if path\to\BM is a shared directory or rolled out centrally , move this file to the directory
 “path\to\BM\src\tools\lic\preferences.xml” with “path\to\BM” being the path to the BranchManager installation directory, to provide a globally available setting.

4. Upgrade BranchManager

4.1. General Procedure

Depending on how you provided BranchManager to your end users, you need to provide the newest version of the files contained in the downloadable zip file.

Usually, you will only have to exchange the folder “src” of each BranchManager installation.

Unless stated otherwise, BranchManager is version compatible, i.e. it is possible that users use different versions of BranchManager at the same time, but of course, new features and bug fixes will only work with the newest version, so we recommend to update the installation areas of all users to the newest version as soon as possible.

4.2. Version specific upgrade procedures

4.2.1. Upgrade to BranchManager 2.8

1. Menu items
 - Database explorer

- New menu entry “Edit Global Preferences”. Please provide the newest version of the folder “menu” to the end users or update the menu structure according to your local procedures.

2. Global preferences

Starting with BranchManager 2.8 some settings are now stored in the configuration area of your DOORS database. Using the menu entry “Edit Global Preferences” a database manager can adopt these settings for all users of BranchManager.

- “Keep absolute Numbers during Branch”: When a module is branched, Absolute Numbers of objects are not mimicked any more. For new customers it is recommended to keep this setting to the default “off” to prevent misleading uniqueness of ids. Existing customers may want to switch back to the previous behaviour by setting the switch to “on”.
- “Sets of common attributes for Comparison and Integration” and “Sets of Views that shall be copied during a branch“: In previous versions of BranchManager, the content of these settings were provided by the files CommonConfig.txt and CopyViews.txt, respectively, and had to be adopted in every installed environment. With BM 2.8, these settings are stored centrally in the database. To migrate the settings, copy the content of your existing files to the respective attributes. To ease migration, when the dialog is opened for the first time, the content of the current files is automatically transferred to the correct attributes.

3. License location

- With BM 2.8, there is an additional way of storing the port and name of the license manager centrally, in the root folder of the BranchManager installation. See the chapter “Set license server information for client” above.

BRANCHMANAGER FOR DOORS, AN IT-QBASE TECHNOLOGY

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