

Description: Guide to upgrading a version 8.x BridgeWorX configuration database to a version 9-compatible one.

OS Requirement: Win XP/Server 2003/ Server 2008/Vista/Windows 7

General Requirement: Microsoft SQL Server 2005 or 2008. BridgeWorX version 9 must be already installed.

Introduction

With the upgrade from BridgeWorX version 8.x to version 9 comes a variety of new features and improvements to the user experience. This rich set of enhancements, however, forced us to sacrifice compatibility between a BridgeWorX version 8.x configuration database and the version 9.x Configurator and runtime engine. Due to this incompatibility, we have equipped the BridgeWorX Configurator with an upgrade utility that will migrate a version 8.x configuration into one that is compatible with the version 9.x software while maintaining all of the configuration settings designed with version 8 of the product. The remainder of this applications note will walk you through the process of upgrading a version 8 configuration database.

Starting the Upgrade

In an effort to make upgrading as seamless as possible, the BridgeWorX Configurator has the ability to detect whether a Microsoft Data Link (.udl) file is pointing to an obsolete (version 8.x) database immediately upon attempting to open the configuration. This holds true for both newly opened .udl files (from the File → Open menu) and active configurations from the previous version 8 instance. For either case, BridgeWorX will immediately inform you of the need to upgrade your database. You will need to answer “yes” when asked to upgrade in order to use the configuration in BridgeWorX version 9.

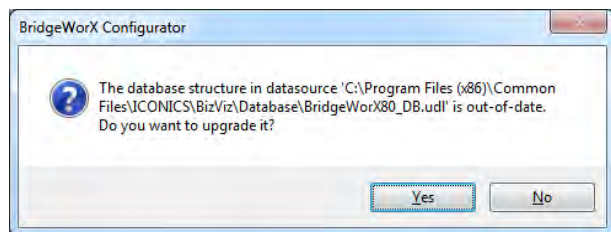


Figure 1 – Prompt to upgrade the database

Creating a New Configuration Database

Immediately upon accepting the request to upgrade, you will notice the “Create New Database” wizard. This is the user interface you would typically see when selecting File → New. Upgrading does not edit the original version 8 database. Instead, it creates a brand new version 9 database and systematically copies all of the necessary data from your outdated configuration to the newly created one.



Figure 2 – Wizard for the new Version 9 Database

NOTE: The creation of a new, second database is required and enforced. On the “Database Deployment Options” page of the wizard, some advanced users may try to select their existing version 8.x database and “use existing structure” in the hopes that it will simply upgrade the old without creating a new one. This does not work by design and will inform you with an appropriate message box.

The Upgrade Process

Upon completing the database creation wizard, the upgrade process will begin. It will first ask you if you would like to migrate your entire transaction history. If you choose not to migrate your history then the upgrade process will probably go faster and your new database will probably be smaller, but you will not have any record of the transactions you ran when you were using version 8. The time it takes to migrate the history and the effect it has on the size of your database are dependent on the number of items in your history.

Next you will be prompted to select a Unified Data Manager configuration file. The reason for this step in the upgrade is that in version 9 triggers are no longer configured in BridgeWorX. They are instead created and stored in the Unified Data Manager. Any triggers created in BridgeWorX version 8 will have to be migrated to the Unified Data Manager.

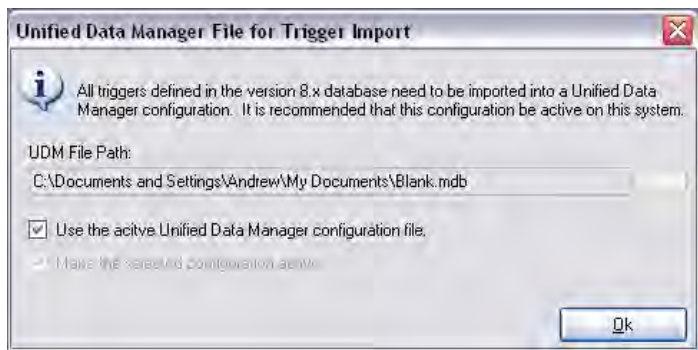


Figure 3 – Unified Data Manager Configuration File

All of the triggers that were previously part of your version 8 BridgeWorX configuration database will be copied into the selected Unified Data Manager Configuration. If you had triggers configured in your original configuration then the Unified Data Manager configuration you specify in this dialog **must** be active on the system when you run your BridgeWorX transactions. Otherwise BridgeWorX will not be able to find your triggers and your transactions may not execute as you would expect.

NOTE: You have the option of canceling this dialog by closing it (with the “X” in the top-right corner). While it is not recommended, advanced users may wish to do so if they know that they have no useful triggers defined. If this dialog is closed without pressing “OK”, an appropriate warning will be placed in the upgrade log (see the next section).

The next thing you will see is a dialog indicating the upgrade progress. This upgrade process should go fairly quickly.

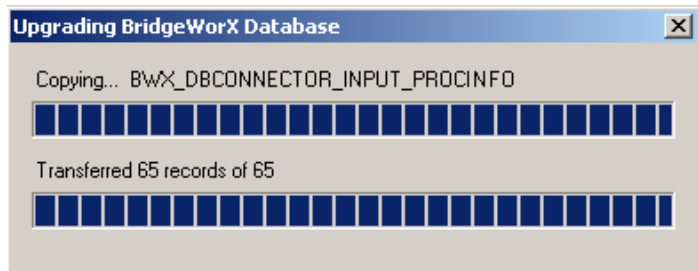


Figure 4 – Upgrade Dialog

NOTE: At any point in the database upgrade, you can click the close (“X”) button on the title bar to cancel the upgrade.

Upgrade Completed

After the Unified Data Manager dialog, the upgrade is complete. You will see one last dialog informing you of the status of your upgrade. If everything went smoothly, this dialog will look like the following.



Figure 5 – Upgrade Complete Information

You can select the ‘View Log’ button to see a step-by-step summary of all of the tables created and transferred. This information, if there are no errors or warning, will have little significance to the end user.

If anything unexpected occurred during the upgrade that does not affect the integrity of the new database, but may affect the functionality, then the ‘Upgrade Results’ dialog will appear with a warning, instead of a simple message.

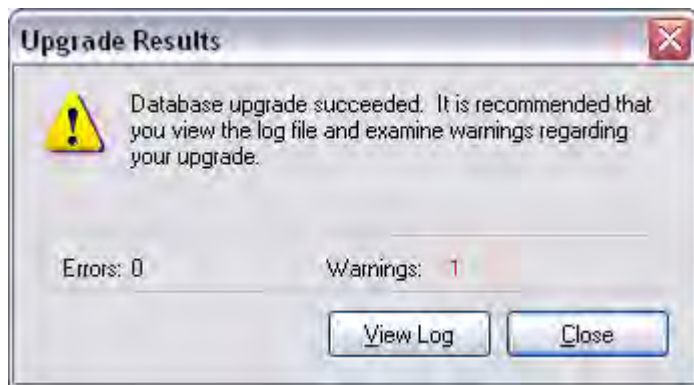


Figure 6 – Upgrade Complete Warning

This particular warning was the result of skipping the Unified Data Manager trigger import. The log file, when viewed, shows the appropriate warning along with all of the events.

Upon clicking “Close” the upgrade is complete and the Configurator will show your configuration, now compatible with version 9 of BridgeWorX.