

User Guide
Accelerator Version 6.1

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Table of Contents

User Guide Accelerator Version 6.1	1
Table of Contents	3
Copyright Information	4
Installing The Accelerator for .NET	5
Accelerator Prerequisites	5
Visual Studio 2012 or later	5
IBM i .NET Data Provider (For IBM i users only)	5
Installing a New Version	6
Step 1: Run the Installation MSI	6
Step 2: Verify Configuration Options	9
Upgrading Existing Applications Built with Previous Versions of Accelerator	11
Step 1: Review Version Specific Notes	11
Step 2: Upgrade Your System	14
Step 3: Build Your System	18
Step 4: Backup the Accelerator Database	20
Step 5: Upgrade the Accelerator Database Schema	20
Step 6: Upgrade the Accelerator Database Maintenance Data	20
Step 7: Publish Accelerator Services	22
IBM i Installation Instructions	23
Step 1: Installing Accelerator Database on the IBM i	23
Step 2: Accelerator Spool File Add-In	23
Validating Installation	22
Customer Support	24

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Installing The Accelerator for .NET

Accelerator Prerequisites

Visual Studio 2012 or later

Required for Accelerator code generation, application compilation and additional development. If you are just running the Wizard and not generating the source code this is not necessary.

Visual Studio 2012 or later is required for generating and enriching applications with Accelerator for .NET and needs to be installed on your development machine. If you have not yet installed one of these versions, please visit <http://www.microsoft.com/visualstudio/> for more information on purchasing an installation copy of the software.

IBM i .NET Data Provider (For IBM i users only)

This is required for the Accelerator wizard, various tools, and generated applications to connect to the IBM i.

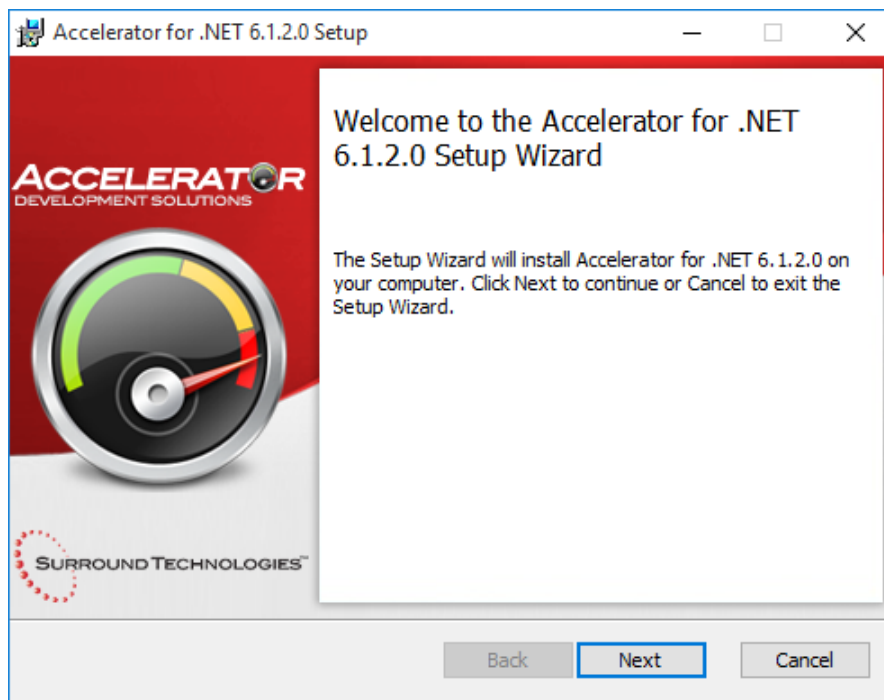
If you are using an IBM i system, please complete the steps listed on this page before continuing: [Additional Setup for Accessing the IBM i](#).

Installing a New Version

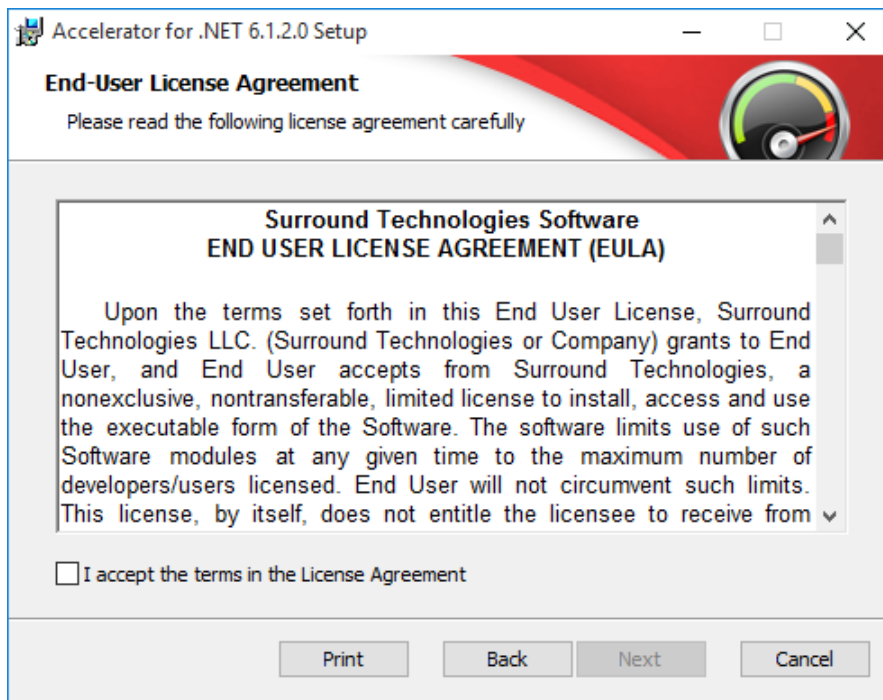
Step 1: Run the Installation MSI

There are two versions of the MSI installer for both the x86 and x64 CPU architecture. Please select the installer appropriate for your machine. Links to download the Accelerator™ will be provided by the Product Vendor.

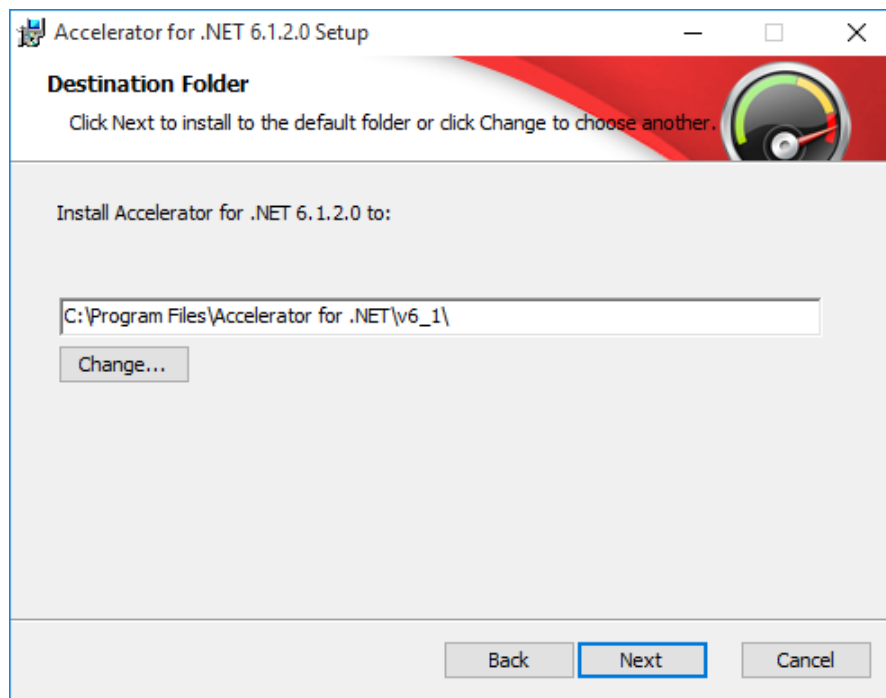
1. Run the installer. This will be the first screen you see when running the Accelerator installer. Click the **Next** button.



2. Please Accept the End-User License Agreement. Click the **Next** button.

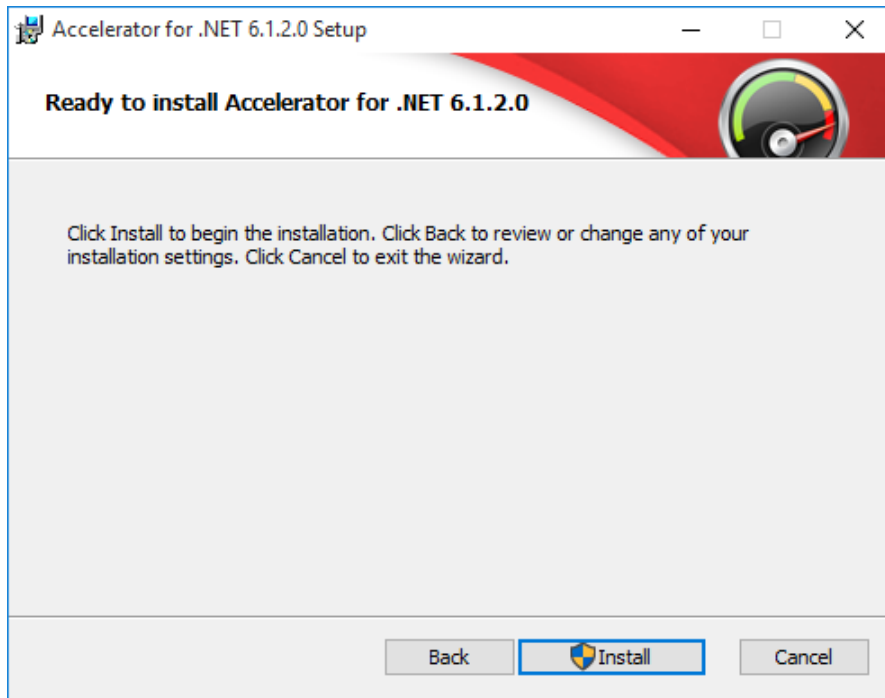


3. On this screen you can optionally change the install path of the Accelerator. Click the **Next** button.

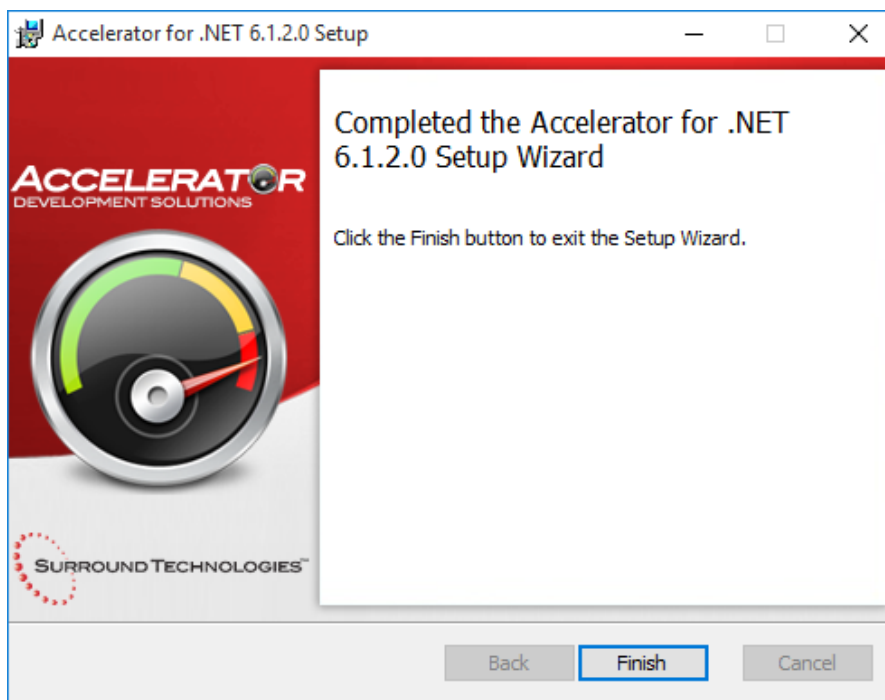


Installing The Accelerator for .NET

4. This is the last step before installation will begin. Click the **Install** button on this screen and wait for the installer to finish.



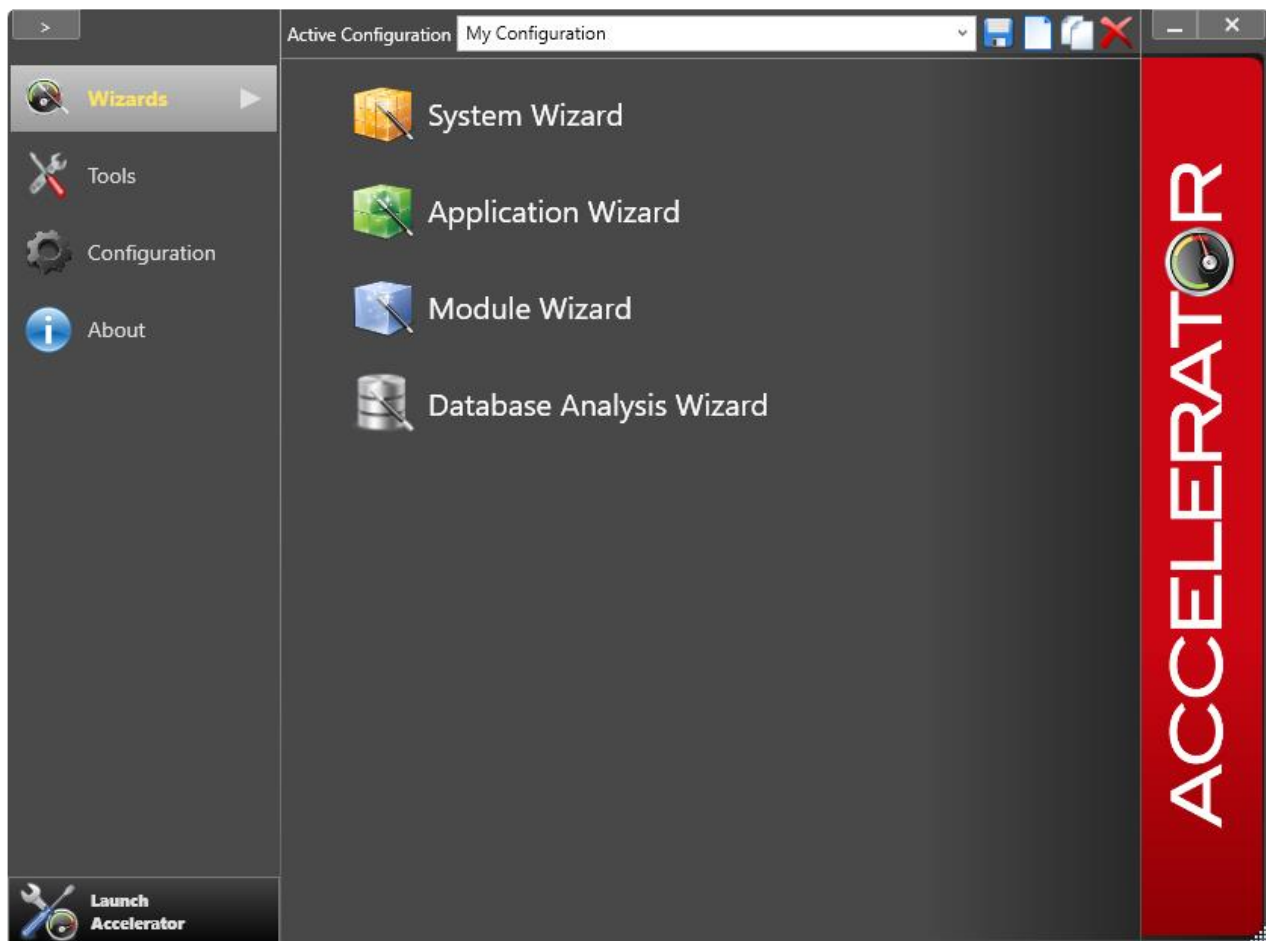
5. This screen will show once the install is complete. Click **Finish** to close the Accelerator installer.



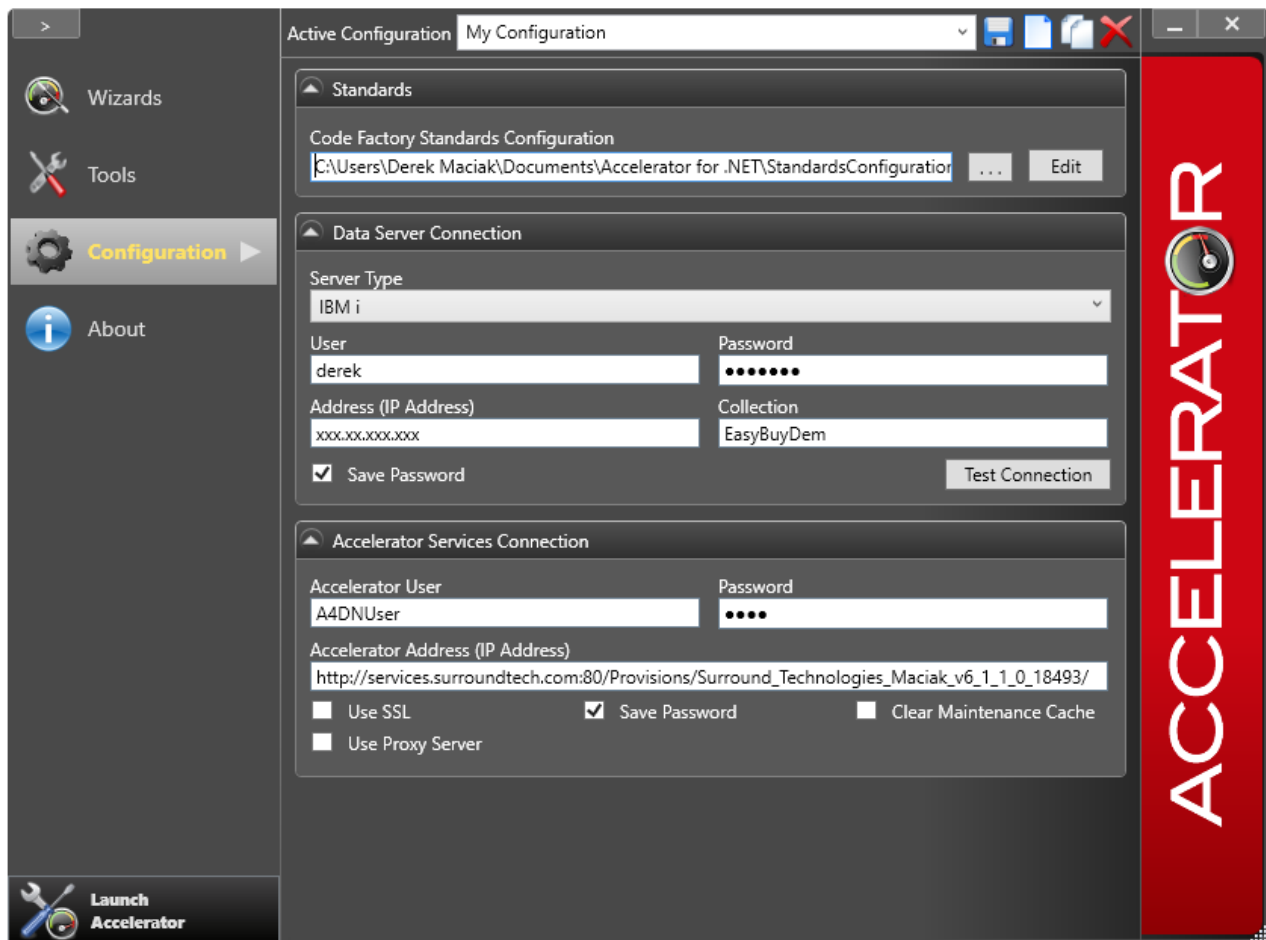
Step 2: Verify Configuration Options



Open the Accelerator™ LaunchPad by going to your desktop and double clicking on the *Accelerator™* LaunchPad which will be placed there after installation of the Accelerator™ for .Net. The following menu should come up once the program is loaded:



Next, navigate to the Configuration Options panel by selecting the gear icon in the left toolbar. It is possible for a new installation to modify some of the configuration settings present on this page, so please verify that all the settings haven't been altered by the new installation and are correct for your system. (The image below is a *sample* and should not be used to populate your system settings).



Note: If you have already been provided a provisioned environment for evaluation purposes, you do not need to continue any further in this installation guide. Refer to the email sent to you after your environment was provisioned for how to configure the Accelerator services connections.

Note: If this is a new Accelerator installation, please skip to [Installing the Accelerator Metadata](#).

Upgrading Existing Applications Built with Previous Versions of Accelerator

Note: This is only necessary for customers upgrading Accelerator with systems built in the previous version.

Step 1: Review Version Specific Notes

Version 6.1

If you are upgrading from a version that is earlier than 6.1, you will need to follow some additional steps **AFTER** you upgrade:

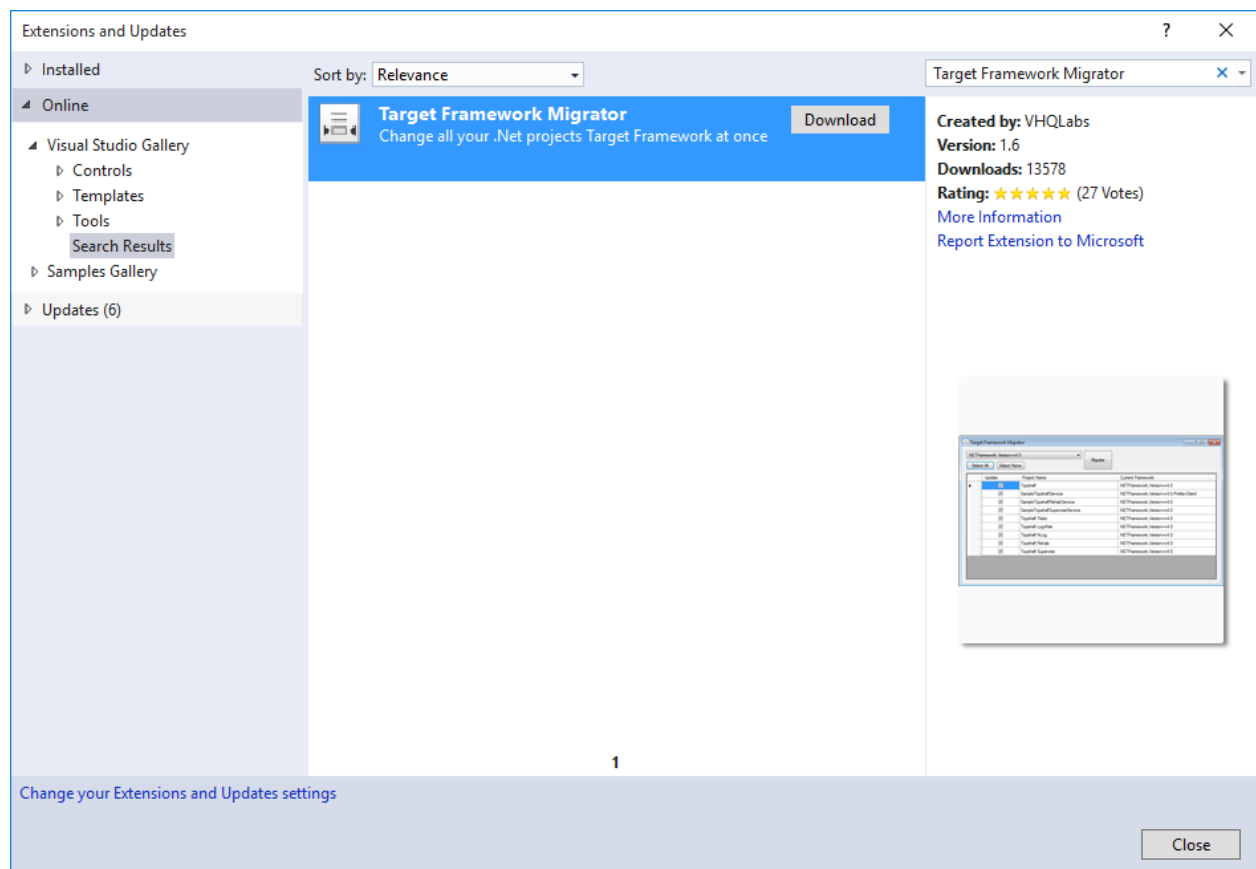
Accelerator version 6.1.0.0 targets the .NET framework version 4.5.2 as opposed to .NET 4.0. If you choose to upgrade to Accelerator 6.1, you will need to retarget all you projects to .NET 4.5.2 or greater. You can go to .NET 4.6 which was just released with Visual Studio 2015, but note that there has been some instability issues reported with that version. You may want to wait until some of those issues get resolved. .NET 4.5.2 is a safer bet.

If you don't want to upgrade to the new .Net Framework at this time, I have also created a Version 6.0.3.0 which has all the enhancements of 6.1 minus the retarget of the new framework. This will be the last version that supports .NET 4.0. All future upgrades will require you to retarget your projects to .NET 4.5.2 or greater.

To assist you with changing all your projects, you can install the visual studio extension "Target Framework Migrator" and re-target all your projects to .NET 4.5.2. You will need to open every solution and run this tool.

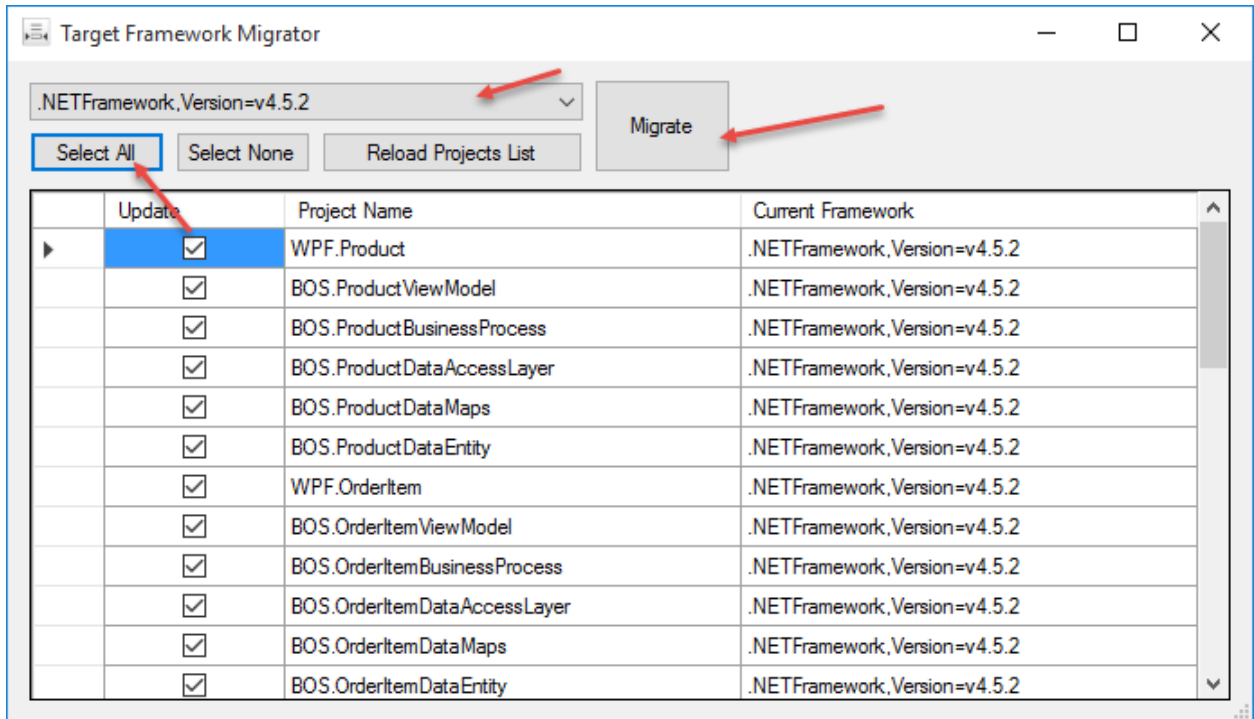
To install and run the Target Framework Migrator tool:

1. Open Visual Studio and click on Tools -> Extensions and Updates...
2. Search Online for Target Framework Migrator. Download and Install.



3. After Installation completes, Open each solution and click Tools -> Target Framework Migrator
4. Select target framework (Suggest 4.5.2)

5. Select All Projects
6. Click Migrate
7. Repeat for Each Solution

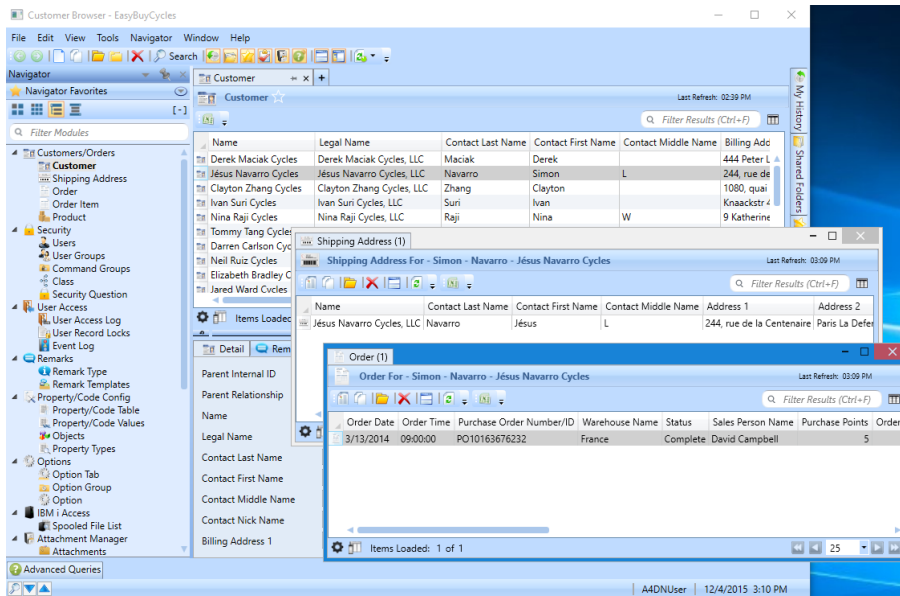


8. The last step is to run your Build script or use the Build Manager and make sure everything Builds ok.

Version 6.1.1.0

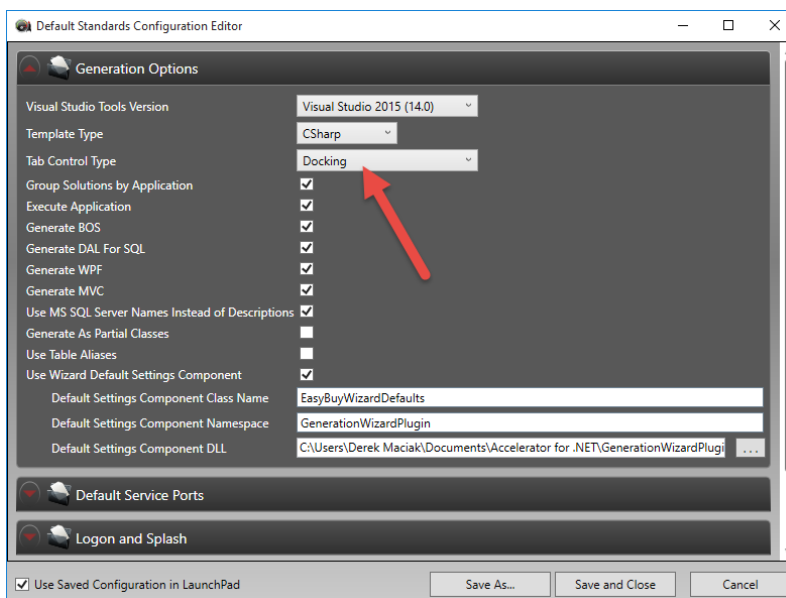
If you are upgrading from a version that is earlier than 6.1.1.0, you will need to follow some additional steps **BEFORE** you upgrade:

The Accelerator now supports the ability to float Sub Module Tabs.



In order to support this new feature, the Module Detail XAML code needed to be updated to support a new TabControl and TabItem Class. The TabControl will be replaced with either AB_DockingTabControl or AB_TabControl and TabItem will be replaced with AB_Tab.

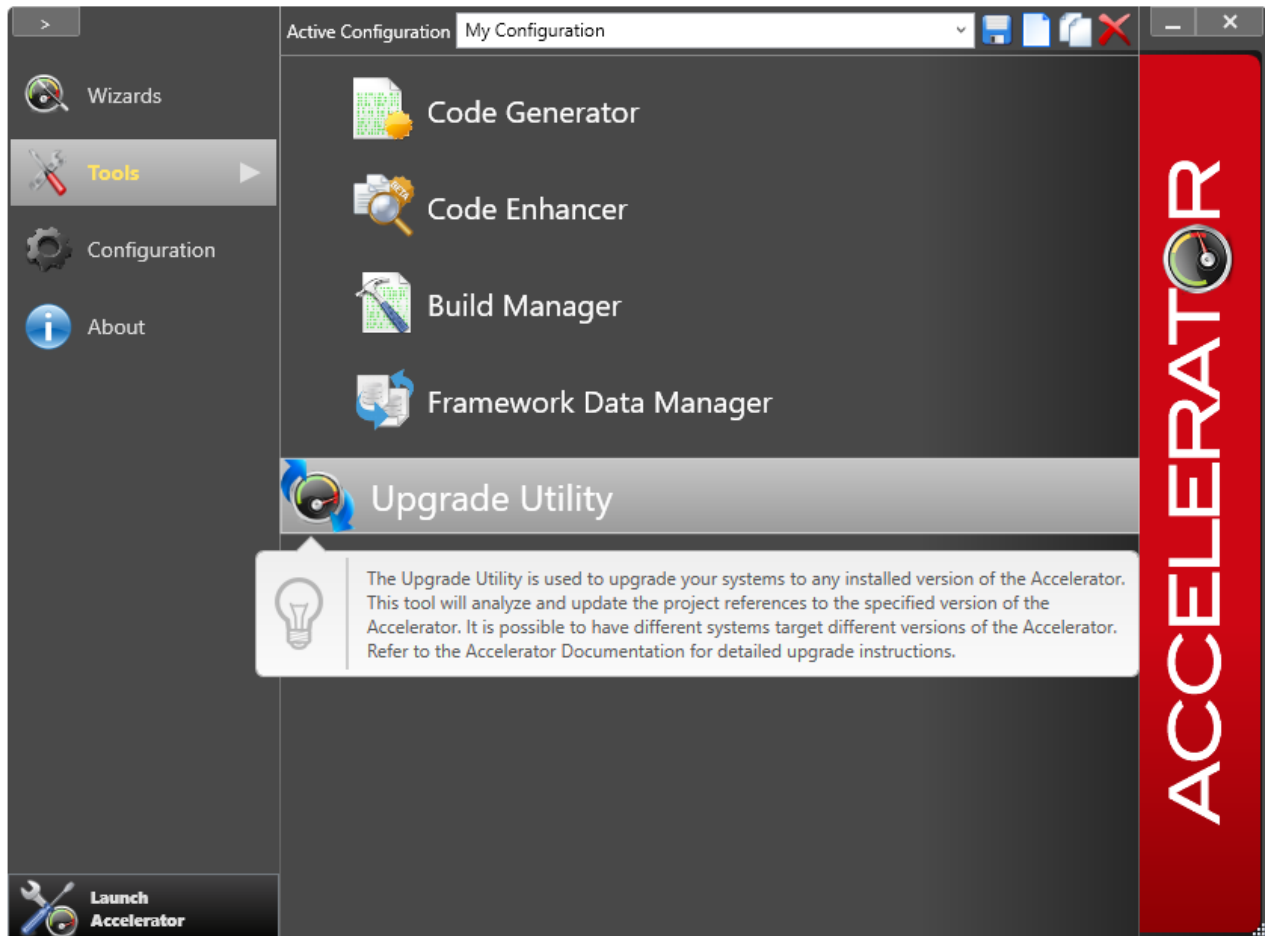
The decision to replace TabControl with either AB_DockingTabControl or AB_TabControl depends on whether you want to use this new float/docking enhancement. The decision of what control to use is stored in your Standards Configuration. The Upgrade Utility and the Generation Wizards will pull from this standards configuration to decide which control to use. Before you use the Upgrade Utility, make sure to set the System Configuration to your desired setting. The default is to use the Docking control which will scrub your detail XAML and replace TabControl with AB_DockingTabControl.



Step 2: Upgrade Your System

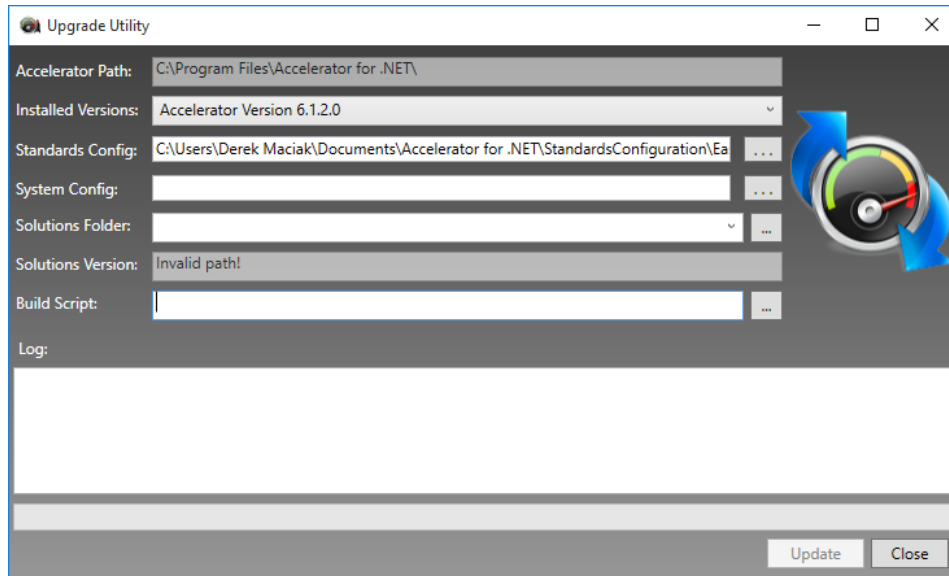
Accelerator™ for .NET supports re-referencing. Any projects or systems that need to be upgraded must be run through the Upgrade Utility to take advantage of the new version.

1. Open the Upgrade Utility by clicking the Tools button (on the left with the icon of the crossed wrench and screw-driver), navigating to the Tools panel, and selecting the Accelerator™ Upgrade Utility.



Installing The Accelerator for .NET

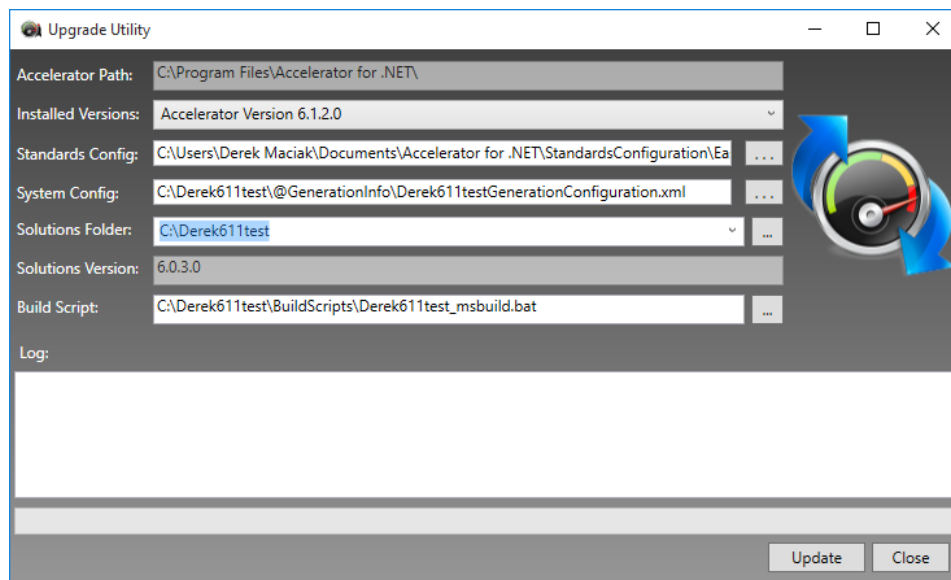
2. The Accelerator™ for .NET Upgrade Utility should now open. Notice that the "Installed Versions" drop down menu defaults to the most recent version. This utility will scan your computer for any valid Accelerator™ for .NET versions you have installed and allow you to update a solution (or folder full of solutions) to the selected version. If you followed the instructions in step 1 and chose to save your previous Accelerator™ version you should see it listed in this menu as well, otherwise only the latest version should be available.



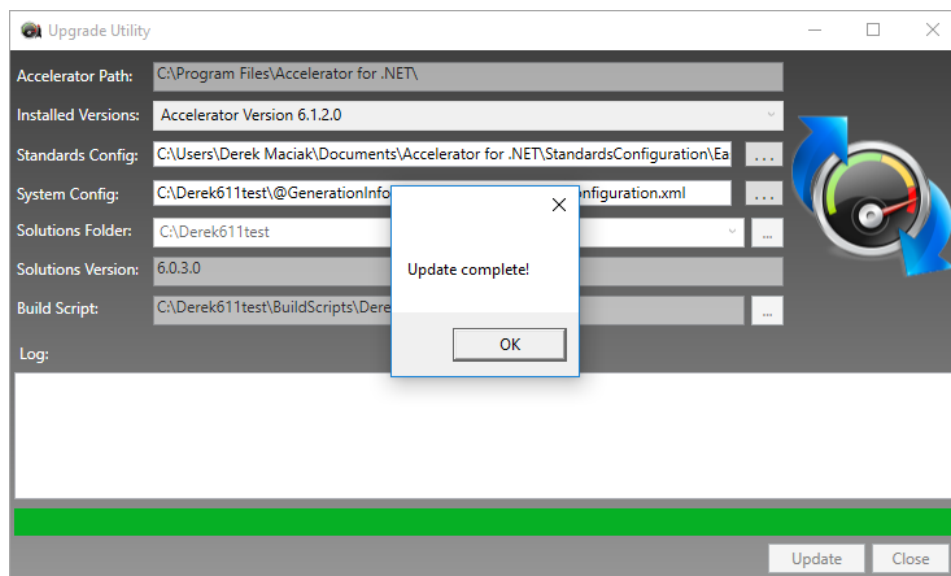
3. Fill in the Solutions Folder text box with the location that contains the solutions you wish to update. The tool should automatically find the Standards Configuration, System Configuration and Build Script. If not, please select appropriately. When a valid path is entered the utility will scan and list in the output log all projects it plans to update, as well as display the current version of these projects in the Solutions Version text box.

Important Notes:

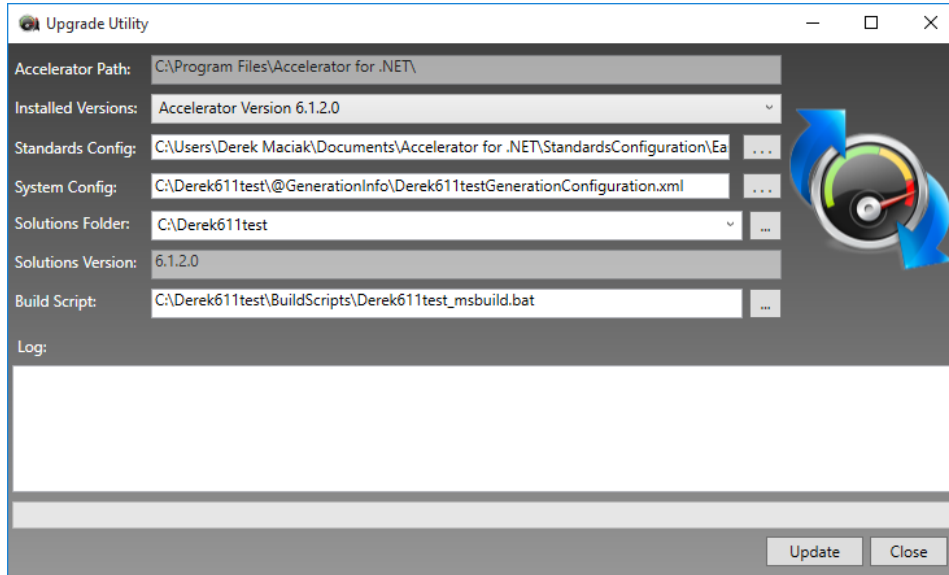
- Make sure there all code on your PC that is Work In Progress is checked in to Master. The Upgrade Utility will make modifications to the project files in your solution as well as code files. It is easier to revert these changes if there is no WIP. If necessary, make sure to check out the system files prior to running the tool so you have the permission necessary to make the required changes.
- The Accelerator Scrub will run at this time. Refer to Step 1 for details regarding any decisions or steps that need to be done prior to the execution of the scrub.



4. Click **Update** to start process. Once the update is complete you should see a pop-up with the number of projects modified and the number of references changed during the operation.



5. Closing the pop-up window will cause the utility to re-scan the selected folder, listing the solutions' updated version as well as any projects that failed to update during the task. The Build Script will also be started if you supplied a Build Script to run.

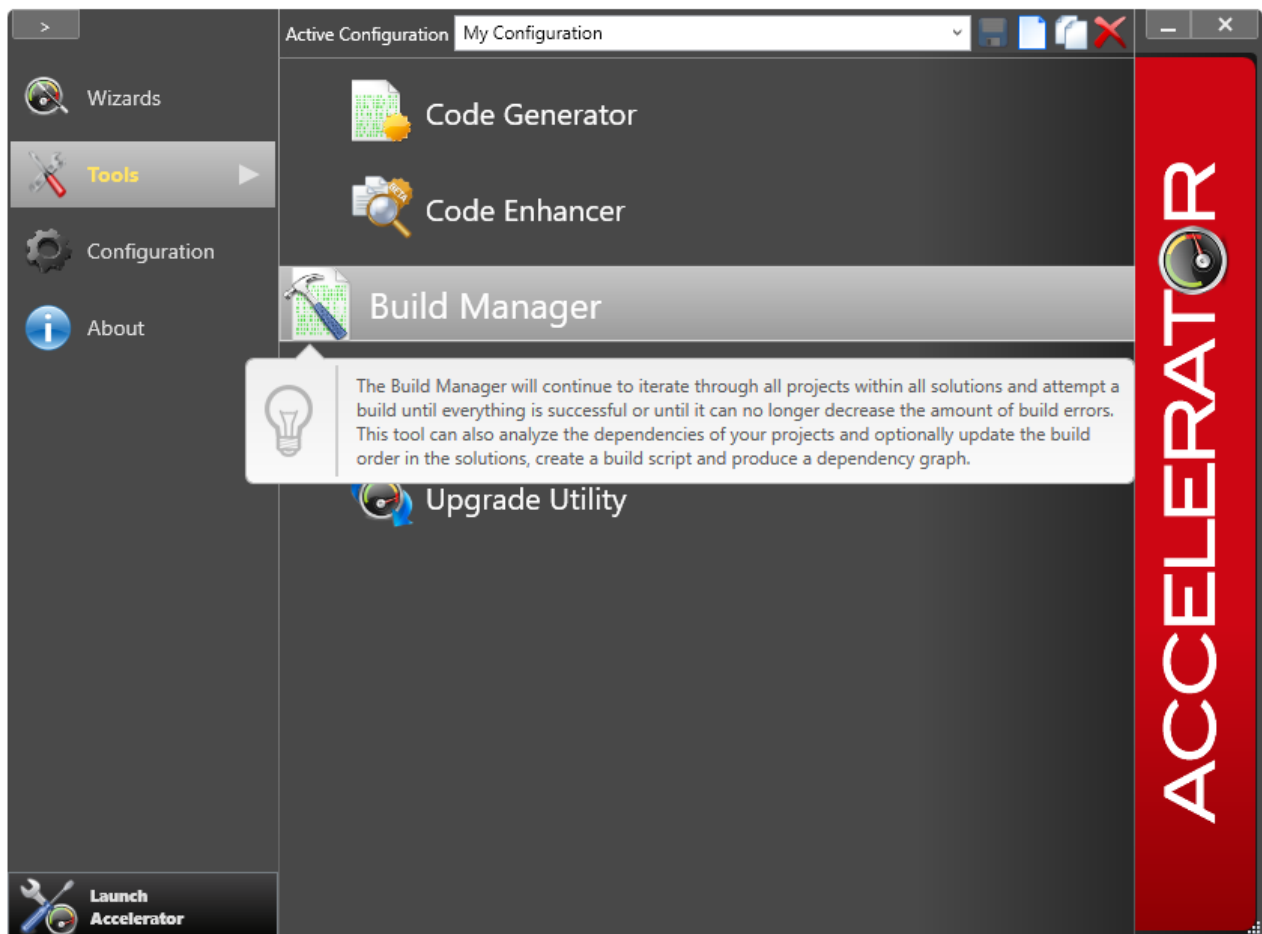


6. Repeat steps 3-5 for all solutions that you'd like to upgrade.

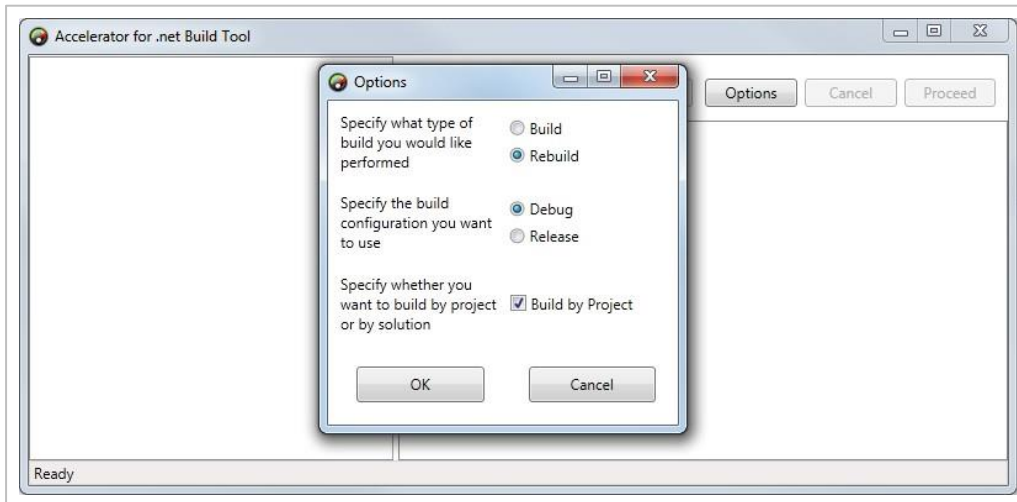
Step 3: Build Your System

Though the solutions run through the Upgrade Utility tool will now point to the proper references, the system must be rebuilt before it can run. If you supplied a Build script, then it should have ran and completed successfully. Alternatively, you can run the Build Manager Tool which has the ability to cycle through building the projects multiple times if needed. If the Build Manager does need to cycle through projects multiple times, then you may have some circular dependencies that need to be resolved. We have a Dependency Tool available in the Build Manager to identify these circular references.

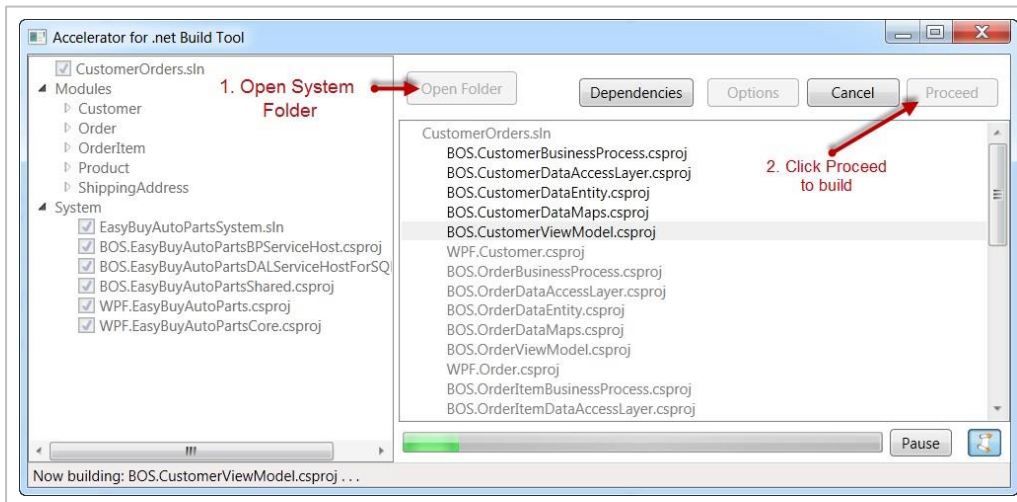
1. Open the Accelerator™ for .NET Build Tool by navigating to the Tools panel in the Accelerator™ LaunchPad and selecting *Build Manager*.



2. Before you proceed, click the *Options* button and set the build type to "Rebuild." You can leave the rest of the settings unmodified.



3. Click the *Open Folder* button and select the folder containing the system solution. Confirm that the proper files are selected in the panel to the left and click *Proceed* to rebuild the system. Repeat this process for all the systems that need to be rebuilt.



NOTE: Resolving Circular References and Creating a Build Script

If you find that your system has circular references, you can identify them by running the Dependency Tool. The Dependency Tool will also create a build script for you. A build script is now automatically generated when you create a system. If you don't have a build script, you can create it by running the dependency Tool.

Step 4: Backup the Accelerator Database

1. Backup Accelerator™ database or create a new one by copying the existing database.

Step 5: Upgrade the Accelerator Database Schema

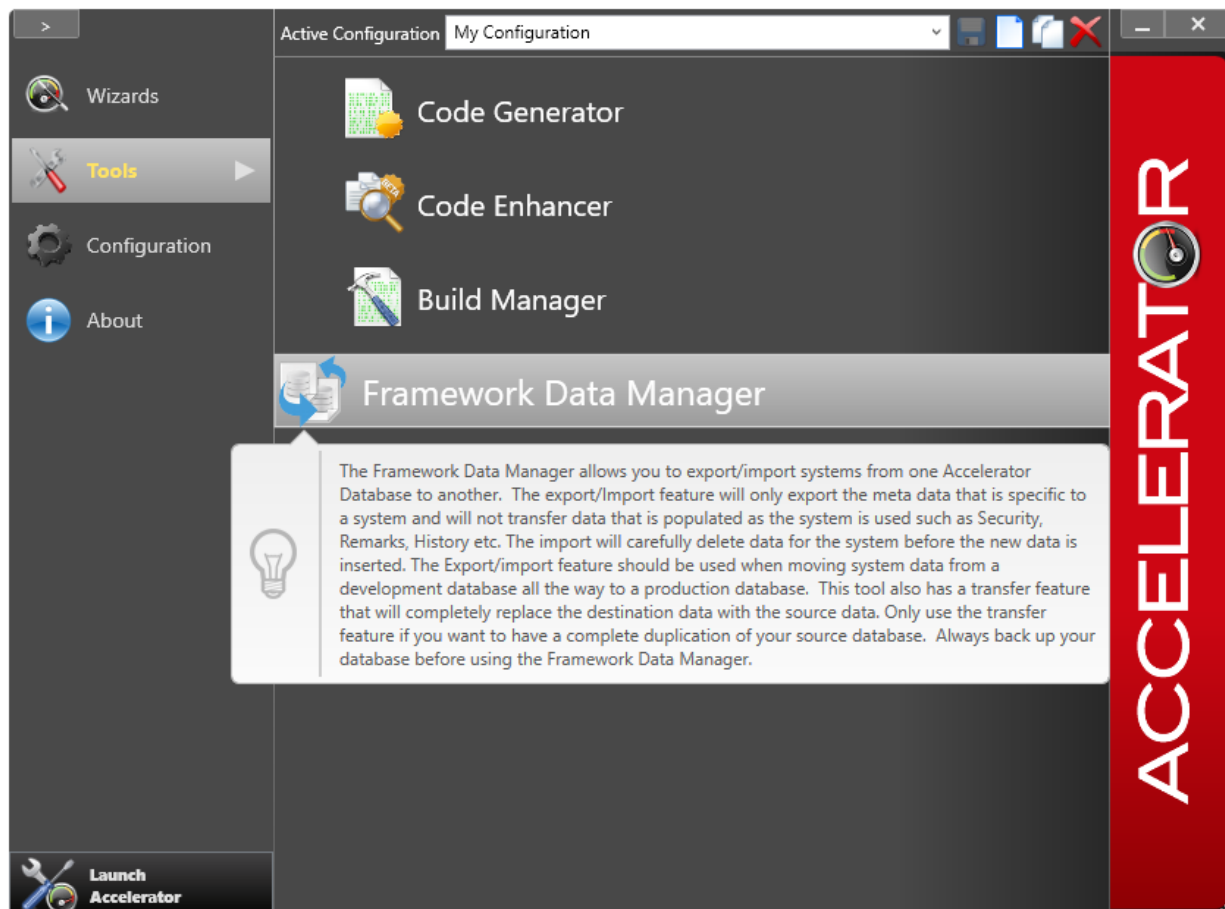
1. Go to the Database Scripts folder (C:\Program Files\Accelerator for .NET\vx_X\Database Scripts), choose the folder for your database type, and run the scripts in the folder against the Accelerator database you want to upgrade. For running the scripts, MSSQL Server or IBM Data Studio can be used.

Note: Scripts are not cumulative. You need to run each script from the version after your current version all the way to the target version you want to upgrade to. Make sure you change the using statement in each script to your specific database name.

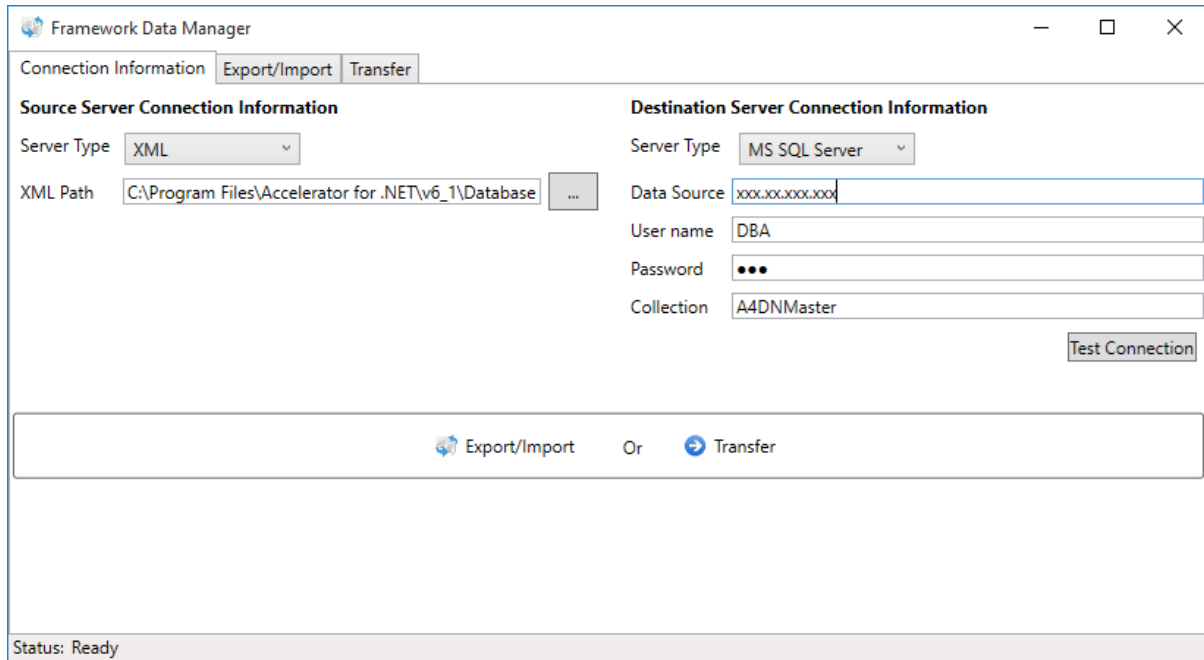
Step 6: Upgrade the Accelerator Database Maintenance Data

Included in your installation package is an XML file (located in this directory by default: "C:\Program Files\Accelerator for .NET\vx_X\Database System Data") containing an updated version of the database system's data. Using the Framework Data Management tool, you must transfer that new data to your server so the database data version matches the newly installed client version.

1. Open the Accelerator™ for .NET Data Management Tool by navigating to the Tools panel in the Accelerator™ LaunchPad and selecting *Framework Data Manager*.



2. Once the Data Management tool opens, you will be prompted to fill in the connection information and server type for both the source and destination servers. Since you will not be utilizing a source server (as you're importing from a local XML file) select XML from the Server Type dropdown and open the XML file located in your install directory. Once you've filled in the XML Path and the destination server's information, click "Export/Import" near the bottom of the window to continue to the next step. (The image below is a *sample* and should not be used to populate your connection information fields).



The screenshot shows the 'Framework Data Manager' window with the 'Connection Information' tab selected. The window is divided into two main sections: 'Source Server Connection Information' and 'Destination Server Connection Information'.

Source Server Connection Information:

- Server Type: XML (dropdown)
- XML Path: C:\Program Files\Accelerator for .NET\v6_1\Database (text field with a browse button)

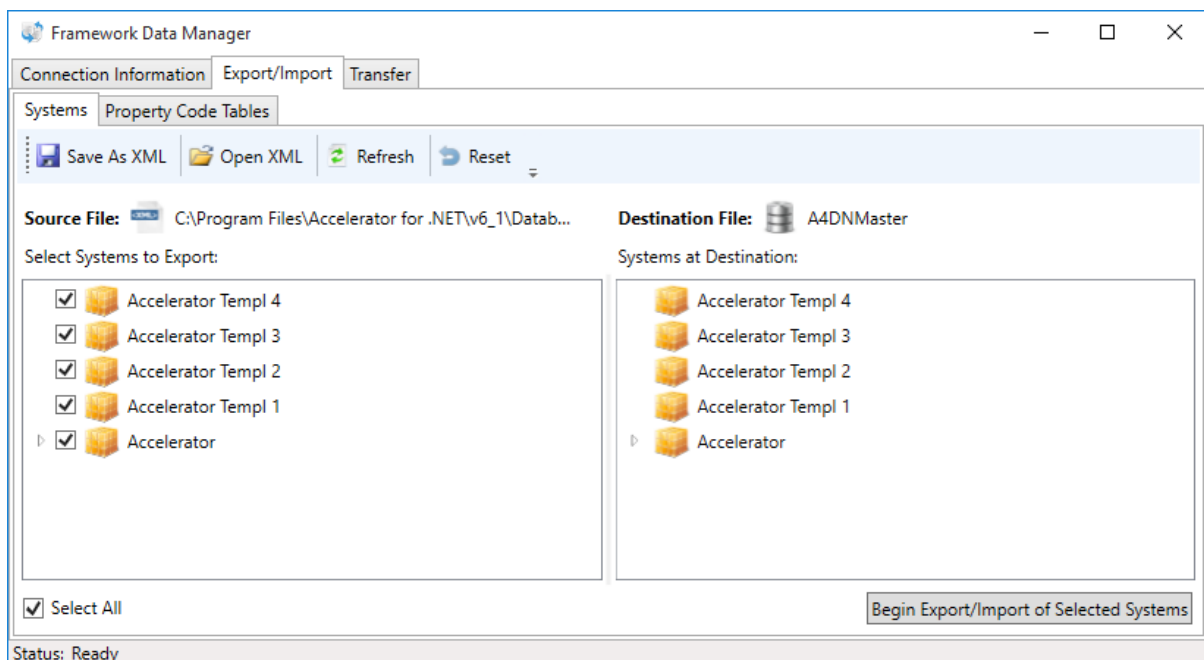
Destination Server Connection Information:

- Server Type: MS SQL Server (dropdown)
- Data Source: xxx.xx.xxx.xxx (text field)
- User name: DBA (text field)
- Password: ●●● (password field)
- Collection: A4DNMaster (text field)
- Test Connection button

At the bottom, there are two buttons: 'Export/Import' and 'Transfer', separated by 'Or'.

Status: Ready

3. Once the transfer program loads the data from the XML file and from your destination server, check the "Select All" checkbox under the list of source systems and choose *Begin Export/Import of Selected Systems* to import the new data to your server.



The screenshot shows the 'Framework Data Manager' window with the 'Export/Import' tab selected. The window is divided into two main sections: 'Source File' and 'Destination File'.

Source File: C:\Program Files\Accelerator for .NET\v6_1\Datab...

Destination File: A4DNMaster

Select Systems to Export:

- ☒ Accelerator Templ 4
- ☒ Accelerator Templ 3
- ☒ Accelerator Templ 2
- ☒ Accelerator Templ 1
- ☒ Accelerator

Systems at Destination:

- Accelerator Templ 4
- Accelerator Templ 3
- Accelerator Templ 2
- Accelerator Templ 1
- Accelerator

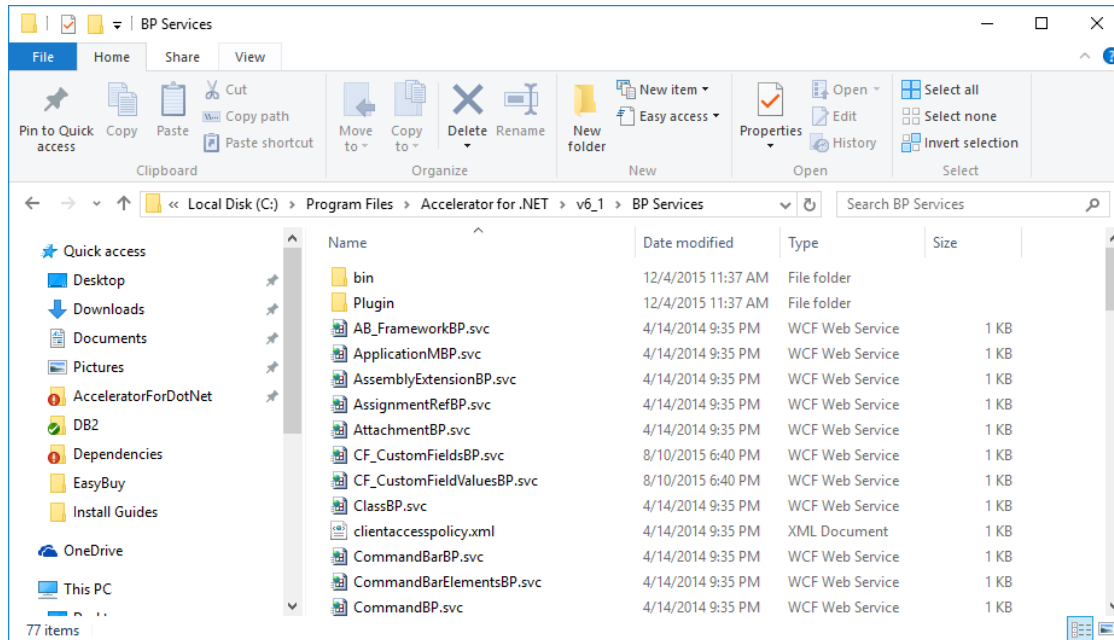
At the bottom left, there is a 'Select All' checkbox which is checked.

At the bottom right, there is a 'Begin Export/Import of Selected Systems' button.

Status: Ready

Step 7: Publish Accelerator Services

1. To upgrade the Accelerator Services, copy the contents of “C:\Program Files\Accelerator for .NET\vX_X\BP Services” to the folder on your server that has the published Accelerator Services.



NOTE: The WebAppSettings.Config and the bin\ConnectionParms.config are not included with the copied items and will remain unchanged. There is no need to configure those files.

IBM i Installation Instructions

This section provides the instructions for installation of the Accelerator options for IBM i Customers.

Step 1: Installing Accelerator Database on the IBM i

The Accelerator metadata can be optionally installed on the IBM i. Please contact support@surroundtech.com to request this installation Save File.

Step 2: Accelerator Spool File Add-In

If you are using an IBMi please download and deploy this spool file to your system (Username - surround1, Password - tech#2): <http://services.surroundtech.com/Downloads/products/A4DN/stsplfsavf.zip>

In the event that the spool file needs to be recreated (possibly after a new stored procedure is added) complete the following steps (Note: This sample code uses *QGPL* as its library; you will need to change this to the name of your library. The stored procedures can be created in any library contained in the user's library.):

1. Create Save File if it does not exist.
 - n If Save File does exist clear the save file CRTSAVF FILE(QGPL/STSPLFSAVF) TEXT('Deployment Objects for A4DN Spool Files').
2. Perform FTP GET, make sure to set transfer mode to binary.
3. Restore Objects on client machine RSTOBJ OBJ(*ALL) SAVLIB(STGPL) DEV(*SAVF) SAVF (QGPL/STSPLFSAVF) RSTLIB(STGPL).
4. Run STRSQL from command line and paste in the following trigger script. In case the procedures already exist you should first try to DROP the procedures then CREATE them.

Note: If running from the IBM data studio or another SQL client you must replace the forward slashes in <Your Library>/A4DN* with a dot delimiter (<Your Library>.A4DN*).

n *(If Procedure Exists)* DROP PROCEDURE <Your Library>/A4DNSPLFHR

```
CREATE PROCEDURE <Your Library>/A4DNSPLFHR(IN SpoolfileUser CHAR ( 10), IN
FormType CHAR (10 ), IN UserData CHAR (10 ))
LANGUAGE CL NOT DETERMINISTIC
NO SQL CALLED ON NULL INPUT
EXTERNAL NAME A4DNSPLFHC
PARAMETER STYLE GENERAL
```

n *(If Procedure Exists)* DROP PROCEDURE <Your Library>/A4DNSPLDTR

```
CREATE PROCEDURE <Your Library>/A4DNSPLDTR(IN JBFILE CHAR ( 10), IN
JBNO CHAR (6), IN JBUSER CHAR (10 ), IN JBNAME CHAR (10),
IN SPLFNO CHAR(4))
LANGUAGE CL
NOT DETERMINISTIC NO SQL
EXTERNAL NAME A4DNSPLFDC
PARAMETER STYLE GENERAL
```

n *(If Procedure Exists)* DROP PROCEDURE <Your Library>/A4DNSELECTFWSH

```
CREATE PROCEDURE QGPL/A4DNSELECTFWSH ()
LANGUAGE SQL RESULT SET 1
BEGIN
DECLARE c1 CURSOR FOR
SELECT * FROM qtemp/FWSH;
OPEN c1;
SET RESULT SETS CURSOR c1;
END
```

n *(If Procedure Exists)* DROP PROCEDURE <Your Library>/A4DNSELECTFWSD

```
CREATE PROCEDURE QGPL/A4DNSELECTFWSD ()
LANGUAGE SQL RESULT SET 1
BEGIN
DECLARE c1 CURSOR FOR
SELECT * FROM qtemp/FWSD;
OPEN c1;
SET RESULT SETS CURSOR c1;
END
```

For reference, below is a list of the Spool File's deployed objects:

Files

1. **FWSD** - Detail Spool File data
2. **FWSH** - Header List of Spool Files
3. **FWPL** - Printer List data

Spool File Header

1. **A4DNSPLFHR** (*Stored Procedure*) - External Program call A4DNSPLFHC Parameter (IN SpoolFileuser Char (10), IN FromType Char (10), IN UserData Char (10))
2. **A4DNSPLFHC** (*Command Line Program*) - Manage Temp File for FWSH and Call RPLE program
A4DNSPLHDR Parameters (Spool file user Default *CURRENT, Form Type Default *ALL, User Data Default *ALL)
3. **A4DNSPLHDR** (*RPG Program*) - Create user space and load FWSH records
4. **A4DNSELECTFWSH** (*Stored Procedure*) - Selects records from Qtemp/FWSH created from A4DNSPLHDR
5. **A4DNSPLFRC** (*Command Line Program*) - Calls QUSRSPLA to retrieve the spool file attributes. Currently only returning the Printer Device Type and Saved after write value.

Spool File Detail

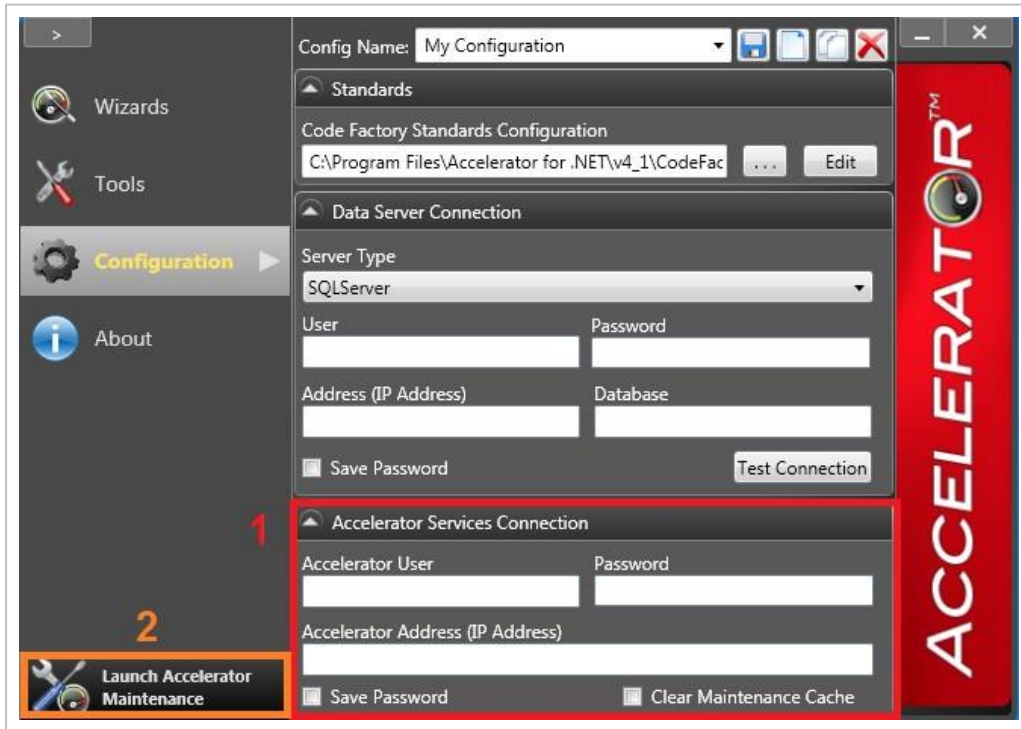
1. **A4DNSPLDTR** (*Stored Procedure*) - External Program call A4DNSPLDTR Parameter (IN JBFILE Char (10), IN JBNO Char (6), IN JBUSER Char (10), IN JBNAME Char (10), IN SPLFNO Char (4))
2. **A4DNSPLFDC** (*Command Line Program*) - Manages Temp File for FWSD and Copy Spool file to QTEMP/FWSD
Parameter (Job File Char(10), Job Number Char(6), Job User Char(10), Job Name Char(10), Spool file number Char(4))
3. **A4DNSELECTFWSD** (*Stored Procedure*) - Selects records from Qtemp/FWSD created from A4DNSPLFDC

Retrieve Printer List

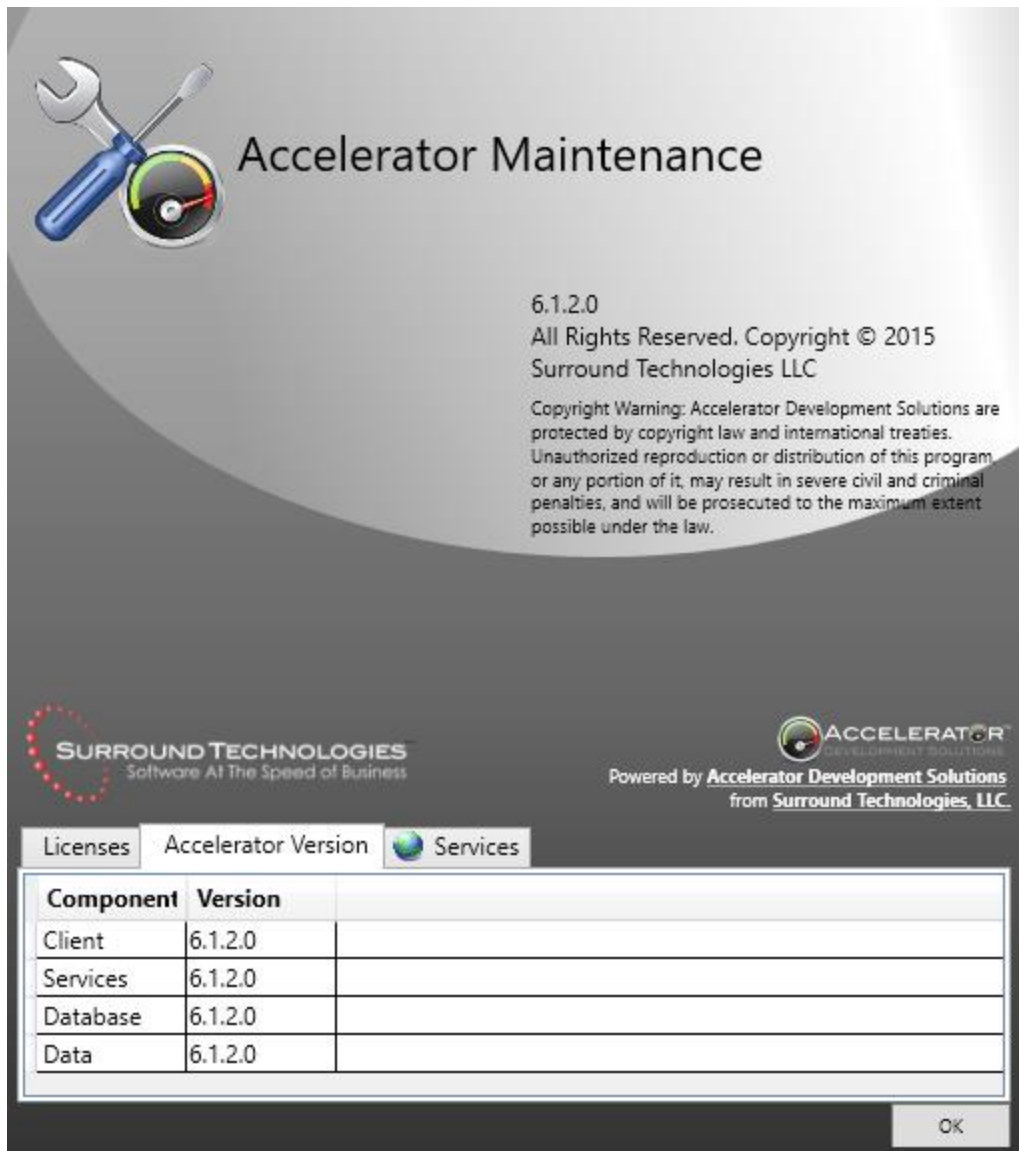
1. **A4DNPRTL** (*RPG Program*) - Retrieve Printer Lists and write to FWPL (RPGLE program that will Clear the FWPL file and reload with all existing printers)

Validating Installation

1. Open up system maintenance to verify that everything has been updated properly. From the Accelerator LaunchPad, enter the address and login information for your Accelerator system, then click "Launch Accelerator Maintenance."



2. Once maintenance is open, go to Help->About and select *Accelerator Version* to confirm that all 4 listed versions are identical.



Customer Support

The Accelerator™ System is developed and serviced by Surround Technologies, LLC. We can be reached by phone Monday through Friday between 8:00 AM and 6:00 PM, Eastern Standard Time. You can also reach Surround Technologies, LLC at our Web site or by e-mail via the Internet.

If your question is not answered in the help file or in this developer guide, please

check our web site at <http://www.surroundtech.com>

e-mail us at: support@surroundtech.com

contact our Customer Service: (973) 743-1277

or Fax us at: (973) 743-1278

Note: When reporting a problem, please make sure to include all relevant information including:

- n What version of the Accelerator™ for .NET are you using?
(To find what version of Accelerator you are using, run the Accelerator Launchpad and Click on About in the left hand panel. The Version number will be in the center of the the right panel under the Accelerator Development Solutions Logo.),
- n What Operating Environment(s) are you using?
(AS/400, IBM i, IBM zSeries, Windows Vista, Windows 7, Windows 8, UNIX, Linux, etc...)
- n What feature are you using?
- n What happens when you use the feature?
- n If possible, a screen print of the observation is very helpful.

If you need to contact Surround Technologies, LLC for a reason other than technical support, our mailing address is:

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