

Chapter 2

Installation

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Installation Procedures

To install a trial version or the production version of Haystack, simply download the appropriate version from www.CodeHaystack.com or the www.PDSA.com web site. Run the HaystackSetup.msi file to install the Haystack software.

After running the install you can go to your Start menu and locate the Haystack folder. Click on the Haystack icon as shown in Figure 1.

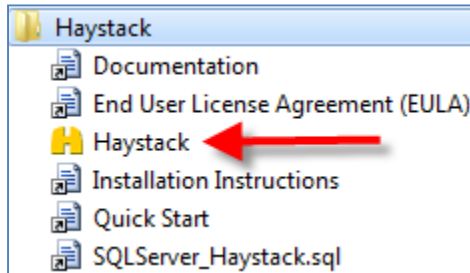


Figure 1: Haystack Menu in your Start Folder.

You are reading the “Installation Instructions” shown in Figure 1. You should also click on the Quick Start shown in Figure 1 as well as this will give you a great head-start on developing using Haystack.

<p>NOTE: If your firewall blocks access to websites you won't be able to use the trial version or activate your copy of Haystack. Your firewall must allow access to http://license.pdsa.com in order for Haystack to work.</p>
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PDSA Product Activation Screen

The first screen you see will be the PDSA Product Activation screen (Figure 2). You may click on the Trial button to start a 30 day trial of the Haystack software. This screen will come up each time you start Haystack. Just continue to click on Trial until you are ready to purchase Haystack.

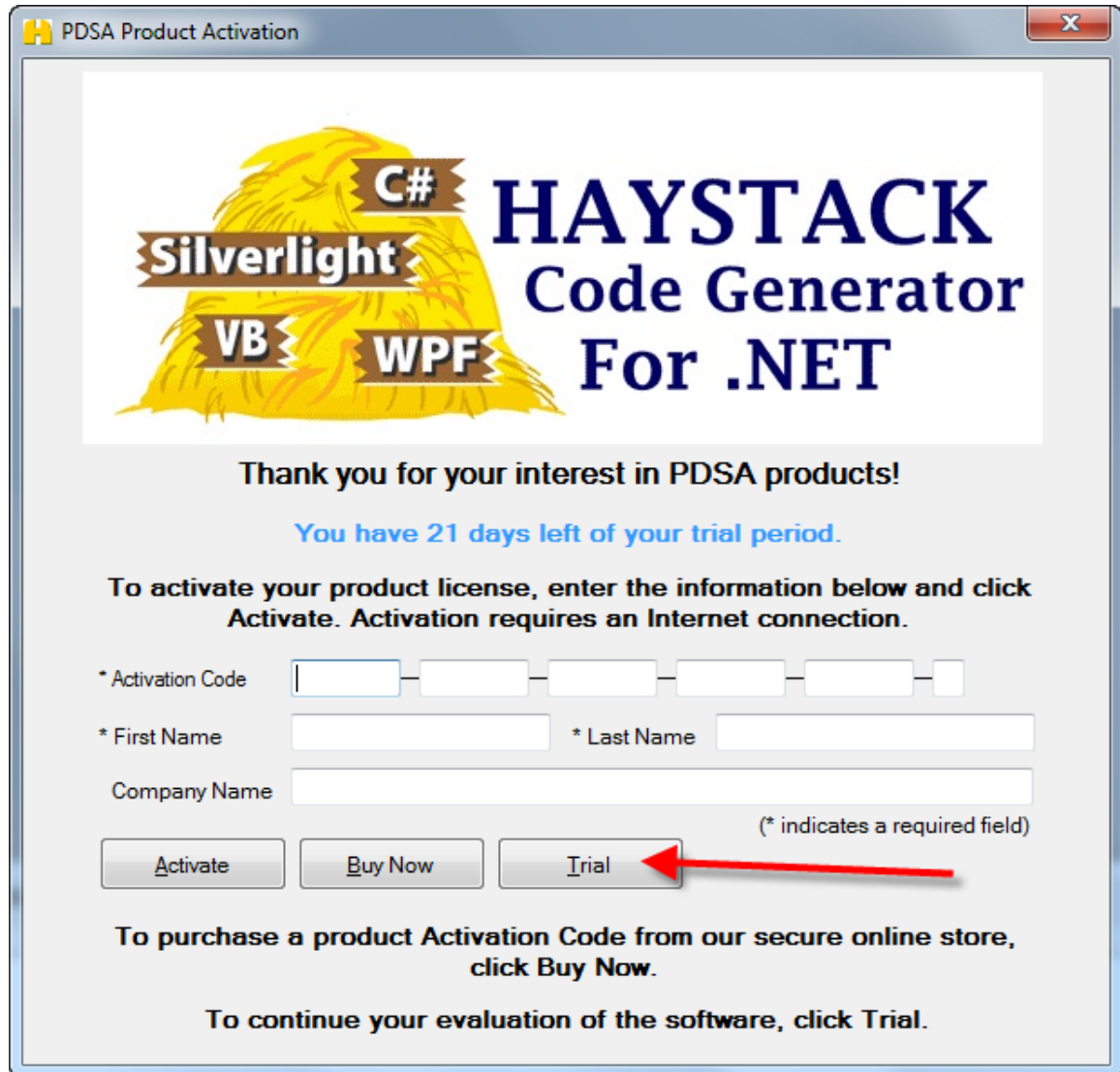


Figure 2: Product Activation Screen (Trial)

Limitations of Trial Version

Every feature of Haystack works in the Trial version. The only limitation is the DLLs that the generated code uses will only work within VS.NET. You may not create any stand-alone EXE versions of the generated code.

Haystack Tips & Tricks Screen

The next screen to appear during the configuration process is the Haystack Tips & Tricks screen (Figure 3). This simply reminds you to view the Install video and to read this document as this will help guide you through the installation process.

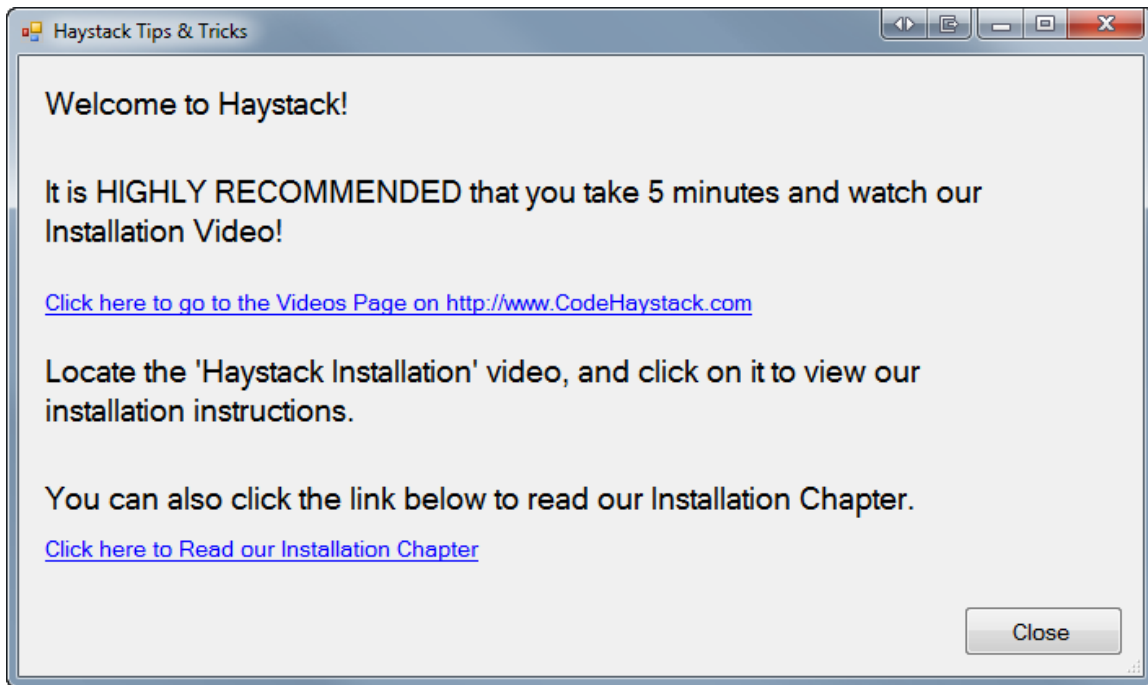


Figure 3: Haystack Tips & Tricks

Configure Haystack Screen Step 1

Depending on the configuration of your machine, the next screen you see could be the **Configure Haystack** screen (Figure 4). All meta-data for you database schema that is used to generate classes must be stored in a SQL Server 2005 or later database. If you have SQL Server Express 2005/2008 installed your machine, there is a pre-created database that will be used to store the Haystack meta-data and you will not see the Configure Haystack screen.

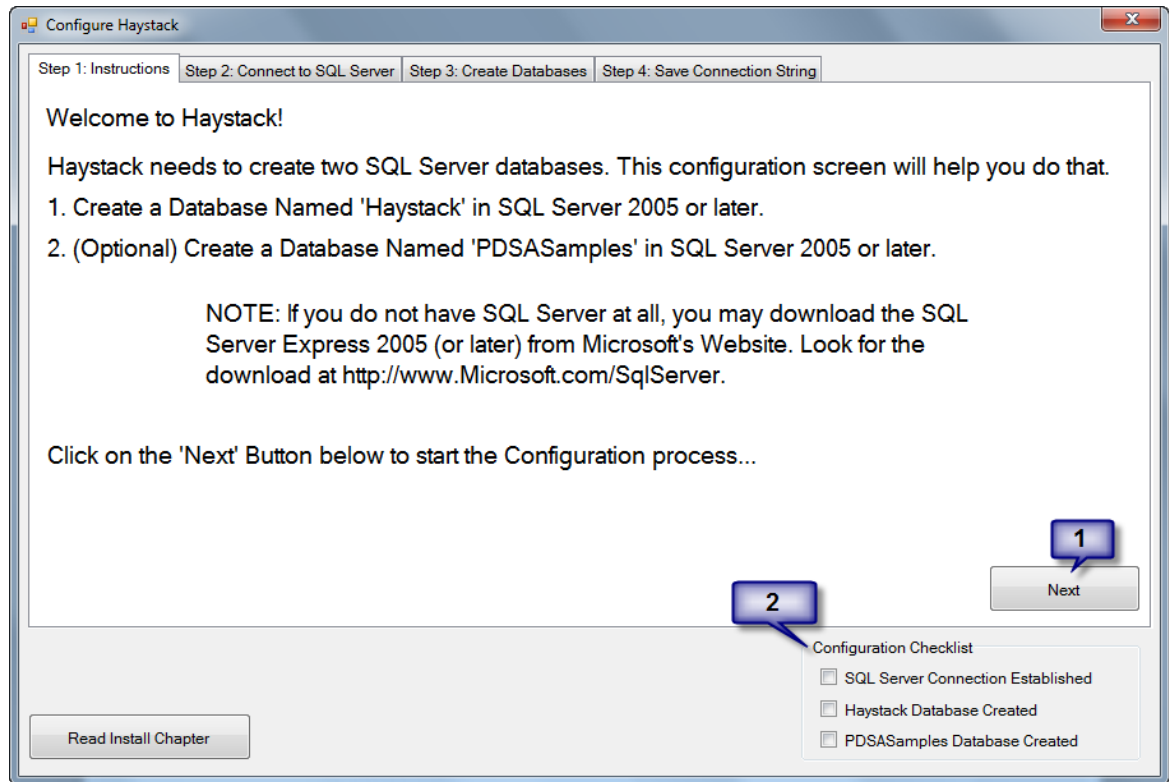


Figure 4: Configure Haystack screen (Step 1: Instructions Tab)

If you do not have SQL Server Express you will need to create a SQL Server 2005 or later database where the Haystack software will store its project information, table, view and stored procedure meta-data, your custom rules and SQL statements to be generated. The Configure Haystack screen will help you create the Haystack SQL Server database.

1. Click the Next button to start the configuration process.
2. The Configuration Checklist will inform you of your progress through this Configure Haystack wizard.

Configure Haystack Screen Step 2

If you have database administrator rights on a SQL Server on your local or network server, you can use the Configure Haystack screen to create the Haystack database as shown in Figure 5.

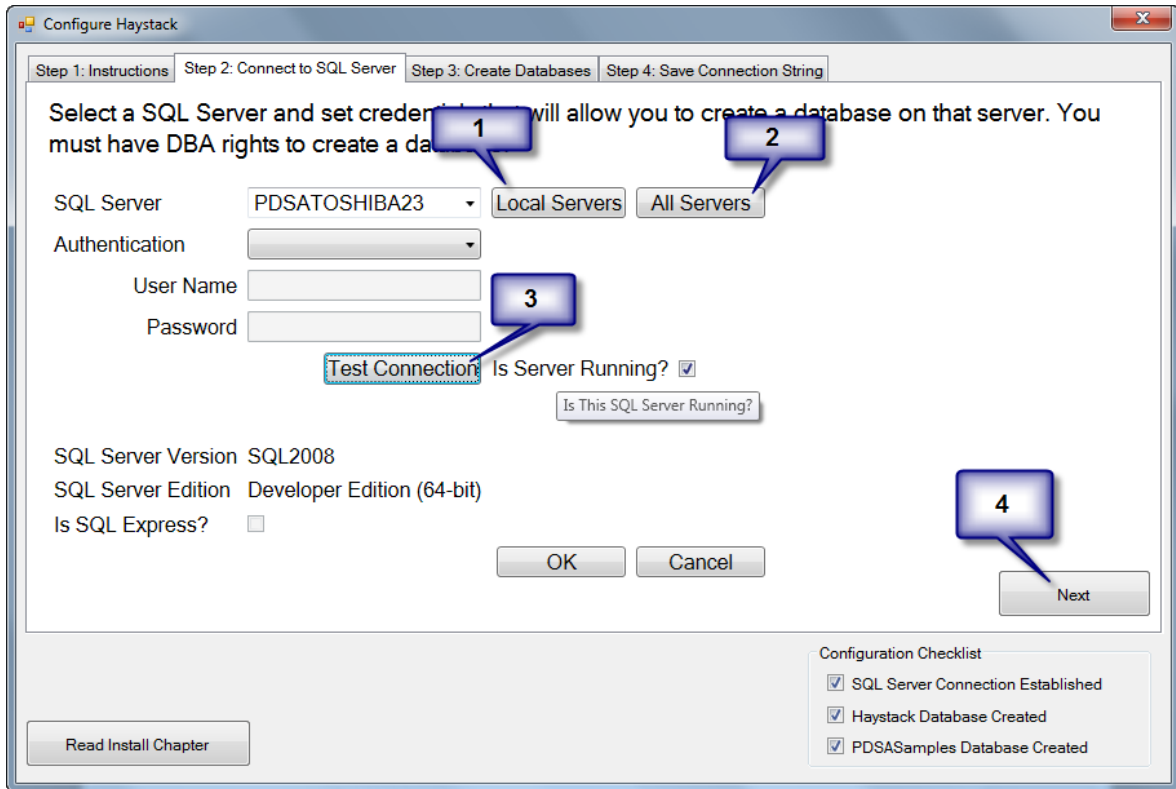


Figure 5: Configure Haystack screen (Step 2: Connect to SQL Server Tab)

The combo box is pre-loaded with any local SQL Servers you have on your local machine.

1. Click on Load Local Only, to just load your local SQL Servers.
2. Click on the Load Network Servers to load all SQL Servers on your network. This might take a few seconds to accomplish.
3. Click on this button once you have put in the appropriate credentials for the specified SQL Server. If you get the credentials correct, then the Next button will be enabled.
4. Click here to continue to the next step in the process.

When you click on the “Click Here to Test Connection” button, not only will it connect to the server, but will also tell you the SQL Server version, and check to see if a Haystack database exists on that server and the PDSASamples database exists on that server as well.

Configure Haystack Screen Step 3

On the Create Databases tab (Figure 6) you will create the database on the SQL Server you specified in Step 2. You must have DBA rights to create this database and create tables.

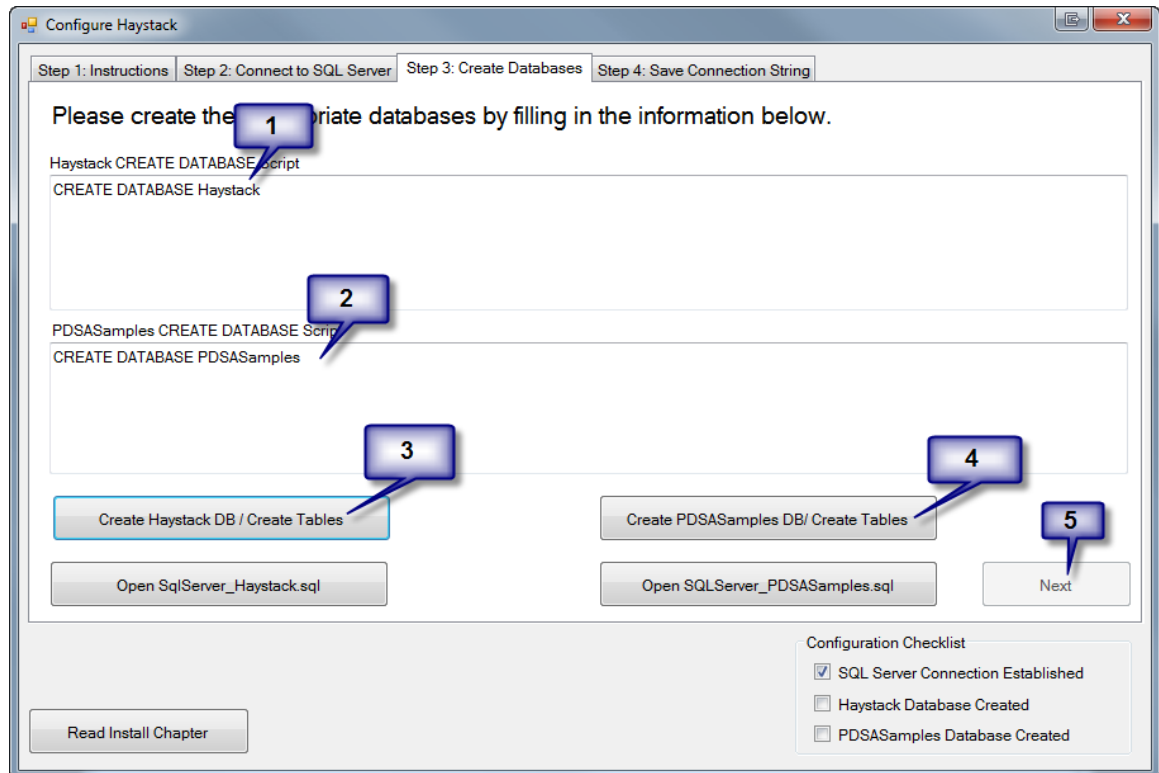


Figure 6: Configure Haystack screen (Step 3: Create Databases Tab)

1. You can specify any CREATE DATABASE statement that you want for the Haystack database.
2. You can specify any CREATE DATABASE statement that you want for the PDSASamples database.
3. Click on this button to create the database and install the tables for the Haystack database.
4. Click on this button to create the database and install the tables for the PDSASamples database.
5. Click Next when you are ready to move to the next step.

What to do if you don't have DBA rights

If you do not have DBA rights, then you can give the CREATE DATABASE statements shown in this screen along with the two .SQL files that you can open with the buttons on this screen to your DBA and have him/her create the database for you. The two .SQL files are located in the following location:

```
[InstallFolder]\Haystack\SqlScripts\SqlServer_Haystack.sql  
[InstallFolder]\Haystack\SqlScripts\SqlServer_PDSASamples.sql
```

After you have created these databases manually, then just click on the Step 4 tab and continue on reading this document.

Configure Haystack Screen Step 4

The last step in the Configuration process (Figure 7) is to save the connection strings. If you had to manually create the Haystack and PDSASamples databases, then you can fill in and click the "Check Connection String" buttons next to each of the connection strings to verify that the databases are ready.

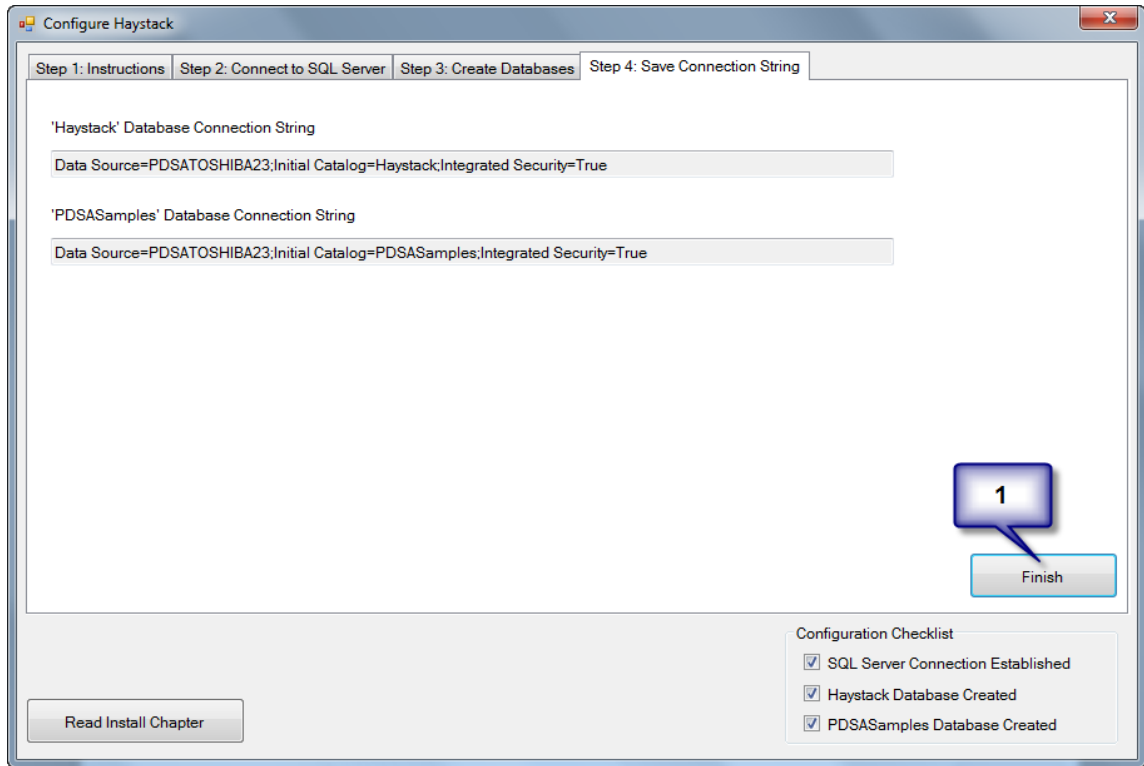


Figure 7: Configure Haystack screen (Step 4: Save Connection String Tab)

Once you have created the two databases you can click on the Finish button to save the connection strings and continue on with the loading of Haystack.

Haystack Installation Folder

After installation of the Haystack application you will find documentation, sample code and some project templates to help you use the software located in the **[Install Folder]\Haystack**. Table 1 shows the list of the folders that are installed and what each folder contains.

Folder Name	Description
[InstallFolder]_Resources-For-ASP.NET-WebForms	In this folder is where you can reference DLLs for your ASP.NET Web Form Application projects. In here is where you will also find an \Images folder that you add to your new ASP.NET project. These images are used by the generated web pages.
[InstallFolder]_Resources-For-ASP.NET-MVC	In this folder is where you can reference DLLs for your ASP.NET MVC Web Application projects.
[InstallFolder]_Resources-For-Silverlight	In this folder is where you can reference DLLs for your Silverlight projects. In here is where you will also find a \Images folder and a \Resources folder that you add to your new Silverlight project. These images and resources are used by the generated XAML user controls.
[InstallFolder]_Resources-For-WPF	In this folder is where you can reference DLLs for your WPF projects. In here is where you will also find a \Images folder and a \Resources folder that you add to your new WPF project. These images and resources are used by the generated XAML user controls.
[My Documents]\Haystack\Database	In this folder you will find a SQL Server Express database for Haystack and PDSASamples.
[InstallFolder]\Documentation	This folder contains all the documentation for the Haystack application, plus some standards documents that you can use for your own company. You can use the standards documents as they are (which match the code generated in the default templates), or you can modify the standards documents to fit your needs. If you modify the standards, then you will need to modify the templates somewhat.
[My Documents]\Haystack\Gen	This is the folder (and sub-folders) is where your code will be generated by default. You may change this location for each project however.
[InstallFolder]\Private	This folder contains assemblies that are used ONLY used by the Haystack application. DO NOT reference any DLLs from this folder as they will NOT work with your application.
[InstallFolder]\Haystack\Samples	This folder contains a lot of sample applications in both C# and VB to help you learn all the various properties and methods that are available in the generated code.
[InstallFolder]\	To run the samples you should create a database called PDSASamples . Install the appropriate scripts for your database

Haystack\SqlScripts	server located in this folder to create all the tables and load sample data so the Haystack sample programs will run.
[InstallFolder]\Haystack\TemplateProjects	This folder contains sub-folders with different template projects for different types of VS.NET project you might create. There will be two projects within each folder that you can use to put your generated code into to test it out. One project is for C# and one for VB.
[InstallFolder]\Templates	This folder contains many sub folders where each folder is a different set of template text files. You may look at each of these text files and see the code that will be generated. It is highly recommended that you make a backup of this folder if you plan on making any modifications.
[InstallFolder]\Xml	This folder contains a set of XML files that are needed for Haystack to run. These XML files may be modified by you in order to control what gets generated.
[InstallFolder]\Xsd	This folder contains the schema definition files for the XML files located in the \Xml folder. Do not modify these schema definition files in any way as this could cause Haystack to not work correctly.

Table 1: Sample Project Folders

Sample Programs

It would be a good idea to load some of the sample programs located in your **[InstallFolder]\Haystack\Samples** folder and see how they work.

NOTE: If you are NOT an administrator on your machine or are otherwise locked out of making changes under the **\Program Files** folder on your machine you will need to copy the **[InstallFolder]\Haystack\Samples** folder to another location on your hard drive in order to run these samples.

There are samples in both C# and VB. The samples (listed in Table 1) are exactly the same between the two languages so you can look at either language and learn how to use the various properties and methods of the generated classes. Go to each folder listed in Table 1 and open the .SLN file for the appropriate language and take a look at the sample to get an idea of how each type of generated data class works.

NOTE: Before you can run these samples you need to have created the database called PDSASamples. You might also need to modify the connection string located in the App.Config file in each sample.

Folder Name	Description
ASPNETCheckType_xx	This sample shows how the validation system will automatically check for valid data types.
ASPNET-CustomMethodProperty_xx	This sample shows how to add a custom method and property to the Manager class and consume that from an ASP.NET ObjectDataSource class to feed data to a GridView.
ASPNET-NullChecking_xx	This sample shows how to check for Null values that are read in from the database, and how to put nulls back if nothing was filled in on the web page.
ASPNETRelationships_xx	This sample shows how to load a drop down list or Order Header items. Then when you select an Order Header how to display the related line items for that order header.
StoredProcExecute_xx	This sample shows a DAC that calls a stored procedure to modify data using input and output parameters.
StoredProcReadOnly_xx	This sample shows DACs that call stored procedures to read data. There are a few different stored procedures called. One uses no parameters. One has only input parameters. And one has both input and output parameters.
Table_DynamicSQLOnly_xx	This sample shows how to use table DACs using dynamic SQL to select, add, edit and delete data in a table.
Table_DynamicSQLStoreProc_xx	This sample shows how to use table DACs using dynamic SQL or Stored Procedures to select, add, edit and delete data in a table. There is a check box that you can check to run either one.
Table_Relationships_xx	This sample shows how to use a relationship between two tables in a WPF application.
Table_StoreProcOnly_xx	This sample shows how to use table DACs using Stored Procedures only to select, add, edit and delete data in a table.

Transaction_Sample_xx	This sample shows how to perform transactions using the generated DACs.
Validation_Sample_xx	This sample shows how to use the validation system with the generated validator classes and the generated Entity classes.
View_Sample_xx	This sample shows how to call a data class that wraps up a view in a database.
WPFGridSample_xx	This sample shows how to update many rows at one time within a DataGrid, then save just the changed rows back to the database. You can do this with or without a transaction.
Xml_Sample_xx	This sample shows a DAC that wraps up an element-based XML file to read xml data and to insert, update and delete xml data.

Table 1: List of Samples

Registering Haystack

After your evaluation period, or before, you may click on the Buy Now button on the PDSA Product Activation Screen. This will redirect you to the PDSA Product Catalog on the PDSA Web Site. From here you may purchase a license key so you can use all of the features of Haystack.

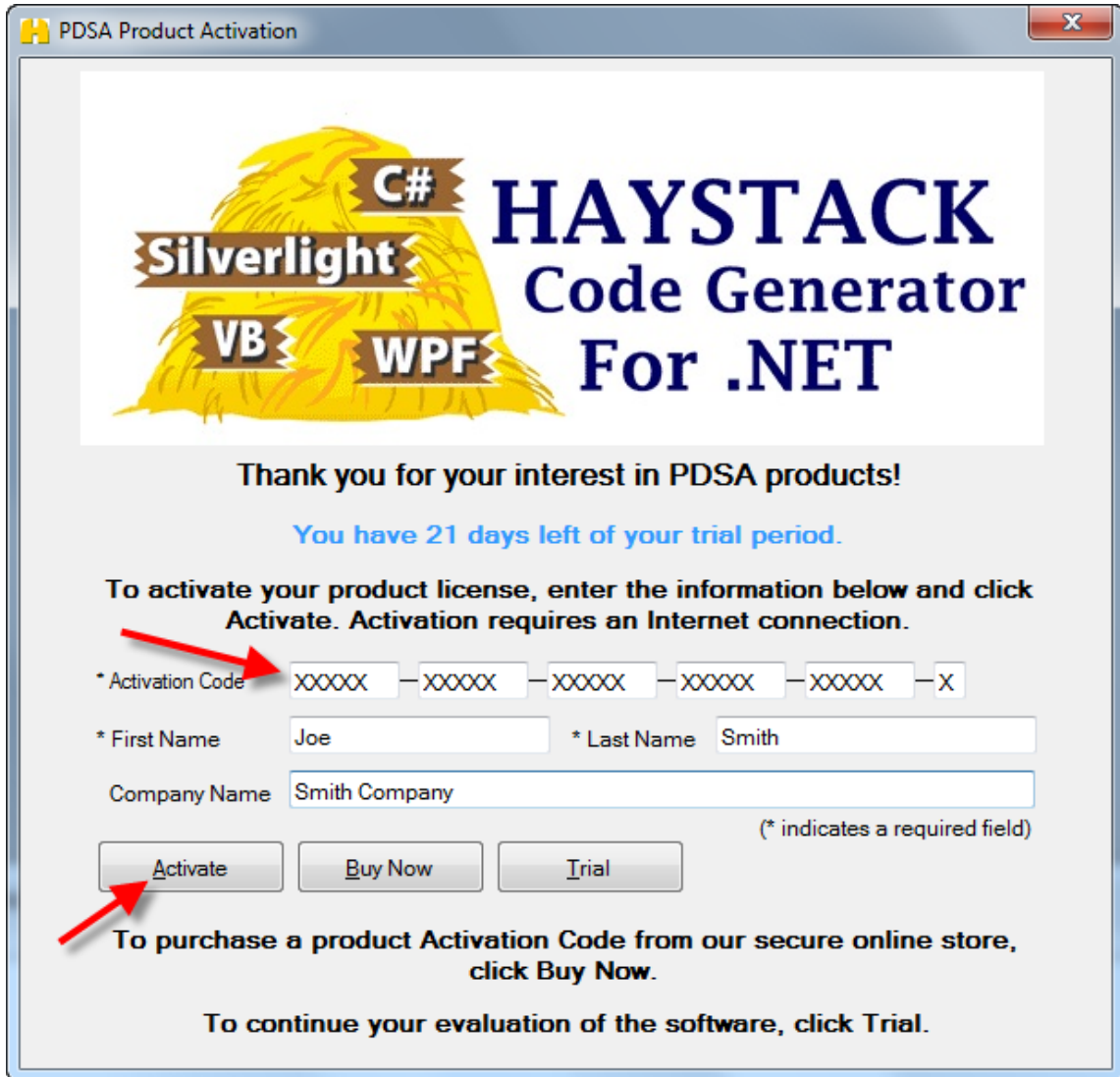


Figure 8: Product Activation Screen (Activate)

NOTE: If your firewall blocks access to websites you won't be able to activate your copy of Haystack. You must allow access to <http://license.pdsa.com> in order to activate your copy of Haystack.

Uninstalling Haystack

To remove the Haystack software from your computer, follow these steps:

- Open the Windows Control Panel.
- Run the Add/Remove Programs applet.
- Select **Haystack** from the list and click [Add/Remove] button.

After a few moments, the Haystack program files are deleted. The program no longer appears on your Start menu.

You should manually remove the **Haystack** folder located under the **My Documents** folder on your machine.

Summary

In this chapter you learned how to install and uninstall the Haystack Code Generator for .NET. You were introduced to the various sample program folders and all of the folders that are installed as a part of this software program.

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