

## 2 Installation

Installation of the Mad! Widgets ASP.NET Validation Package is a four step process. Precisely what these steps are depends on the use of your web server and which license you purchased.

When installing the package you have the choice to install the primary DLL (the assembly) in the Global Assembly Cache (GAC) or on the website on which the package will be used. If you have purchased a Server License, a Multiple Server License or a Redistribution License and you are running several websites on each server, you may prefer to install the DLL in the GAC as it reduces the chance of having multiple copies of the same DLL on the server. If you have not purchased one of these licenses or you do not have many websites on each server, you may prefer to install the DLL on each website, as this is a simpler process.

### 2.1 *Installing the assembly*

#### 2.1.1 **Installing the assembly on the website directly**

Unpack the MadWidgets.Validation-[version].zip file into a temporary directory and copy the `/bin/MadWidgets.Validation.dll` file into your site's `/bin` directory. Once done, the assembly is installed on your website.

Alternatively, if you prefer to place the assembly into a sub-domain only, copy it to the sub-domain's `/bin` directory.

#### 2.1.2 **Installing the assembly in the GAC**

There is more than one way to install the assembly into the GAC. First unpack the MadWidgets.Validation-[version].zip file into a temporary directory. Then do one of the following:

- Run `gacutil.exe /i [temporary-directory]\bin\MadWidgets.Validation.dll`. `gacutil.exe` is installed with the .NET Framework files and will be located in the directory `C:\WINDOWS\Microsoft.NET\Framework\v1.0.3705`, or whatever the equivalent directory is on your server.

- Drag *[temporary-directory]\bin\MadWidgets.Validation.dll* and drop it into your local *C:\WINDOWS\assembly* directory or whatever your local equivalent is using Windows Explorer. This will automatically install the assembly into the GAC.

Once the assembly has been installed in the GAC, you will need to tell ASP.NET where to find it. You can do this by adding the following line to the *machine.config* XML file. This file is normally located in the directory *C:\WINDOWS\Microsoft.NET\Framework\v1.0.3705\Config* or whatever your local equivalent is. This line is placed in the section */configuration/system.web/compilation/assemblies*.

```
<configuration>
  <system.web>
    <compilation>
      <assemblies>
        <add assembly="MadWidgets.Validation, Version=1.3.0.0,
          Culture=neutral, PublicKeyToken=f238745449bc9bec" />
      </assemblies>
    </compilation>
  </system.web>
</configuration>
```

Note that the Version value in this example is based on the version number of the assembly. The version number of your assembly can be found by right-clicking on the DLL file, selecting Properties, then the Version tab.

You should not remove any existing entries relating to the Mad! Widgets ASP.NET Validation Package unless you are certain that no sites on the server are using the earlier version of the control any longer. Similarly, you should not remove any earlier versions of the assembly from the GAC either for the same reason.

You may need to restart IIS before the new assembly will be picked up by the websites running on it.

## 2.2 Installing the license

The license file you received in your email will have the name *MadWidgets.Validation.Validator.lic*. Copy this file to one of the locations listed below.

- The */bin/licenses* directory (you may need to create this) on the website(s) that will use the package.
- The *[sub domain root]/bin/licenses* directory (you may need to create this) on the website(s) that will use the package where *[sub domain root]* is the root directory of the sub domain. E.g. if you have a site with the sub-domain *mysub.mydomain.com*, then "mysub" will typically be the root directory of the sub-domain and it is normally located directly under site's primary root directory. The sub-domain's bin directory will then be located at */mysub/bin*.
- The location where the *MadWidgets.Validation.dll* file is located in the GAC. The assembly will be located in a directory resembling *C:\WINDOWS\assembly\GAC\MadWidgets.Validation\1.3.0.0\_\_f238745449bc9bec\*. Windows Explorer will not allow you into this directory, however, you can

navigate to it through third-party file system management software or through a command prompt. Note that you should not put the license file here if you are referencing the assembly through VS.NET or WebMatrix.

- In the Windows SYSTEM32 directory.
- In the directory *C:\Program Files\Common Files\Mad! Widgets\Validator*, or whatever your local equivalent is. You may need to create this directory.

In most situations, you will copy the license file to */bin/licenses* on your website (the first option above).

Note that if you have placed the license in the correct directory and the Validator control is not finding it, you may not have sufficient permissions on the file for the control to read it. You should have read permissions on the file for the account that ASP.NET is running under (e.g. the local ASPNET account).

## 2.3 Copying secondary files

The ASP.NET Validation Package comes with the following files in addition to the main assembly file *MadWidgets.Validation.dll*:

File	Purpose
/javascript/Validator.js	The JavaScript file that manages the client-side validation.
/javascript/ValidatorUtils.js	A JavaScript file containing several helper functions that can be used even when not using the validation package.
/Validator.ascx	A sample Validation Summary control.
/css/Validator.css	The style sheet used with the Validation Summary. You will need to explicitly include this in your page for the sample Validation Summary to display correctly, e.g. in the <head> section.
/images/tick.gif	The "tick" image that appears in the top right of a textual field as that field passes validation. This image appears for a couple of seconds and appears only when the UseTicks option is enabled.
/images/cross.gif	The bright red "cross" image that appears in the top right of a textual field as that field fails validation. This image appears for a couple of seconds and appears only when the UseTicks option is enabled.
/images/crossdim.gif	The dim red "cross" image that remains in a textual field that has failed validation. This image appears only when the UseTicks option is enabled.

<b>File</b>	<b>Purpose</b>
/images/error.gif	The icon in the top left corner of the built-in Validation Summary. This is contained in the CSS (/css/Validation.css) file associated with the Validation Summary.
/LicenseAgreement.doc	The license agreement in MS Word format.
/LicenseAgreement.pdf	The license agreement in PDF format.

Each of the files above can be copied anywhere that you desire within your website. They do not need to remain in the directory structure found in the ZIP package. In step 4 of this installation procedure you will be shown how the Validator control learns where these files are located with entries in the web.config file.

Note that the license agreement files (*LicenseAgreement.doc* and *LicenseAgreement.pdf*) do not need to be copied to your website.

## **2.4 Setting up the web.config file**

In order for the Validator control to know where you have placed each of the files listed in the previous step, you need to add entries into the web.config file. You will need to add these entries in the appSettings section of the file.

The following entries may be added to the file:

<b>Property</b>	<b>Purpose</b>	<b>Required</b>
validatorJavascriptPath	The path of the Validator.js file relative to the root of the website.	Yes
validatorSummaryTitle	The title of the validation summary control that is shipped with the ASP.NET Validator. This property can be accessed through the SummaryTitle property of the Validator control.	No
validatorInitialHighlightClass	The name of the CSS class that is used on the highlight element when the page first loads. validatorHighlightClass used when it is not specified.	No
validatorHighlightClass	The name of the CSS class that is used on the highlight element when the respective field or fields fail validation.	No

Property	Purpose	Required
validatorDefaultHighlightElement	The default signature of the highlight element. Be sure to escape any < and > characters in the signature with &lt; and &gt;.	No
validatorUseTicks	When "true" this property instructs the Validator control to enable client-side ticks and cross in textual fields that are being validated. True by default.	No
validatorTickPath	The path of the tick.gif image relative to the root of the website or its customised equivalent.	Yes - when UseTicks enabled
validatorCrossPath	The path of the cross.gif image relative to the root of the website or its customised equivalent.	Yes - when UseTicks enabled
validatorDimCrossPath	The path of the crossdim.gif image relative to the root of the website or its customised equivalent.	Yes - when UseTicks enabled
validatorClientSideEnabled	When "true" instructs the Validator control to enable client-side code. True by default.	No

A typical appSettings section might look like the following:

```
<configuration>
  <appSettings>
    <add key="validatorSummaryTitle" value="The follows errors
      occurred on the page:" />
    <add key="validatorInitialHighlightClass"
      value="validatorInitial" />
    <add key="validatorHighlightClass" value="validatorError" />
    <add key="validatorDefaultHighlightElement"
      value="&lt;div[className=formInput]&gt;" />
    <add key="validatorUseTicks" value="true" />
    <add key="validatorJavascriptPath" value="/javascript/" />
    <add key="validatorTickPath" value="/images/tick.gif" />
    <add key="validatorCrossPath" value="/images/cross.gif" />
    <add key="validatorDimCrossPath" value="/images/crossdim.gif" />
    <add key="validatorClientSideEnabled" value="true" />
  </appSettings>
</configuration>
```

Once all four steps above are completed, the Mad! Widgets ASP.NET Validation Package should be ready to use. If you have not been successful in installing and setting up the control, please contact [support@madwidgets.com](mailto:support@madwidgets.com) for assistance.