

This is document revision 1 of the Confirmit Horizons Custom Code Library User Guide published in August 2018. The information herein describes Confirmit Horizons Custom Code Library and its features as of Build nr. 24.0.10 (given in the Home > Help > About menu). New features may be introduced into the product after this date. Go to www.confirmit.com or check "News" on the Customer Extranet for the latest updates.

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The companies, names and data used or described in the examples herein are fictitious.

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What's New in this Issue?

Note: Only the latest changes to this documentation are listed here. Changes made to earlier revisions are listed in the "Changes to the User Documentation" document which can be downloaded from the Confirmit Extranet at https://extranet.confirmit.com.

The following changes have been made in revision 1 of the Confirmit Horizons v24 Custom Code Library User Guide:

 The document revision and Confirmit version and build numbers are updated. No other changes are made to the content.

Note: The general layout and language in this document is continually being corrected, adjusted and improved to ensure the user has the best possible source of information. Only NEW information and details of functionality that has changed since the previous issue are listed here - minor corrections to the text and document layout are not listed.

Important

We need your feedback so we can improve this document and provide you with the information you require. If you have any comments or constructive criticism concerning the content or layout of this documentation, please send an email to documentation@confirmit.com. Please include in your email the section number and/or heading text of the section to which your comment applies.

1. Introduction

The Custom Code Library functionality enables you to program your own code libraries and use them in Confirmit surveys.

This is useful for script functionality that is used across surveys. For example, if you have some customized validation code that you use in all your surveys, instead of the survey programmer having to copy the code into each survey, you can include the code in a Custom Code Library. The Confirmit script programmer can then use this code from a script in any survey.

The Custom Code Library assemblies can be scoped to be project-specific, company-specific or available in all surveys across all companies.

The Custom Code Library functionality is also useful if you need to program a bridge between Confirmit surveys and other systems, or for direct database lookup from external databases.

1.1. About This Document

The document is intended for Confirmit script programmers, and for administrators of Confirmit server installations.

To program a Custom Code Library, see Chapter 2. You can choose between all the .NET programming languages. This manual describes how to create a Custom Code library for Jscript .NET and C#.

To be able to use the Custom Code Library functionality in surveys, you must deploy the custom code DLL to the Confirmit installation (see Deploying the Custom Code Library DLL on page 13 for more information).

2. Creating a Custom Code Library DLL

A Custom Code library DLL is a standard Microsoft .NET assembly that can be created in any of the .NET programming languages. This documentation presents examples with Jscript .NET and C# syntax.

2.1. Creating the DLL using Jscript .NET

To create a Custom Library DLL with Jscript .NET, proceed as follows:

- 1. Declare a class inside a package. This class must extend the class CustomCode which is defined in Firmglobal.Confirmit.SurveyEngine.Common assembly.
- 2. The functions you wish to expose through your Custom Code Library must be declared static.
- 3. The standard Confirmit script functions can be accessed with the Survey prefix and using the dot notation. For example, the f(..) function can be accessed from the Custom Code Library with Survey.f(..). See Figure 1 below for an example of a Custom Code Library file. Note that the package name, class name and file name can be chosen arbitrarily.
- 4. You must compile your assembly with an AssemblyInfo.js file. This file should have a fixed version number (for example 1.0.0.0). Do not use the star (*) notation as this will cause the assembly to be incompatible when upgrading Confirmit. A complete AssemblyInfo.js file is provided in Figure 4 below. The version information is located in the AssemblyVersion tag in this file.
- 5. You must have your assembly signed with a key distributed by the Confirmit installation. This key is located at [confirmprogram]\bin\ GeneratorCode.snk. Note the AssemblyKeyFile tag in Figure 4 below.
- 6. Use the line below to compile the code files (the [CONFIRMITPROG] needs to be substituted with the correct path the Confirmit program folder):

```
jsc /t:library
/r:[CONFIRMITPROG]\web\wix\bin\Firmglobal.Confirmit.SurveyEngine.Common.d
ll
CustomCodeLibrary.js AssemblyInfo.js
```

Figure 1 The Jscript .NET syntax for the custom code class (CustomCodeLibrary.js)

If your custom code library needs access to a web service then we need to Assert that permission before the call to the web service, as shown in the figure below. Note that Asserting permissions is a required procedure.

```
// JScript CustomCodeLibrary source code
//
import Firmglobal.Confirmit.SurveyEngine.Common;
import System.Net;
import System.Security.Permissions;
package MyPackage {
    public class CustomCodeLibrary extends CustomCode
    {
        // Example function using Confirmit Web Services
        staticfunction MyFunctionThatCallsAWebService()
        {
            new WebPermission(PermissionState.Unrestricted).Assert();
            return Survey.CurrentPID()
        }
        //TODO! Here you can add your own functions.
}
```

Figure 2 The Jscript .NET syntax for the custom code class (CustomCodeLibrary.js) accessing Confirmit Web Services

If your custom code needs access to other resources that are protected by a permission, then you will need to Assert them also, for example if you want to write or read a file. If you want your custom code to have unrestricted access to all resources then you can use the permission shown in the figure below.

Figure 3 The Jscript .NET syntax for the custom code class (CustomCodeLibrary.js) with unrestricted access

```
import System.Reflection;
import System.Runtime.CompilerServices;
import System.Security;
//
// General Information about an assembly is controlled through the
// following set of attributes. Change these attribute values to
// modify the information associated with an assembly.
//
[assembly: AssemblyTitle("")]
[assembly: AssemblyDescription("")]
[assembly: AssemblyConfiguration("")]
[assembly: AssemblyCompany("")]
[assembly: AssemblyProduct("")]
[assembly: AssemblyCopyright("")]
[assembly: AssemblyTrademark("")]
[assembly: AssemblyCulture("")]
[assembly: AllowPartiallyTrustedCallers()] // Needed from Confirmit 11
// Version information for an assembly consists of the following
// four values:
//
//
       Major Version
//
       Minor Version
       Build Number
//
//
       Revision
11
// It's recommended not to use the star (*) notation
[assembly: AssemblyVersion("1.0.0.0")]
// Have the AssemblyKeyFile point to
// [confirmitprog]\bin\GeneratorCode.snk
[assembly: AssemblyDelaySign(false)]
[assembly: AssemblyKeyFile(@"C:\confirmit\prog\bin\GeneratorCode.snk")]
[assembly: AssemblyKeyName("")]
```

Figure 4 The Jscript .NET syntax of the AssemblyInfo.js file

2.2. Creating the DLL using C#

The easiest way to create a Custom Code Library in C# is to use Visual Studio .NET. From Visual Studio .NET do the following:

- 1. Go to the File > New > Project menu command.
- 2. Select project type Visual C# Projects, and template Class Library.
- Give the new project a logical name, such as CustomCodeLibrary.
 Visual Studio will now create a project with two source files, AssemblyInfo.cs and Class1.cs.
- 4. Rename Class1.cs to an appropriate name (in this example it is called CustomCodeLibrary.cs).
- 5. Select the project from Solution explorer, and right click Add reference....
- 6. Browse to the file Firmglobal.Confirmit.SurveyEngine.Common.dll located at [CONFIRMITPROG]\web\wix\bin\
- 7. Replace the content of **CustomCodeLibrary.cs** (Class1.cs) and **AssemblyInfo.cs** with the contents of Figure 5 and Figure 8 respectively.

Note that the namespace name, class name and file name for the CustomCodeLibrary.cs file can be chosen arbitrarily.

8. Build the solution (press Ctrl+Shift+B).

Note the following:

- The methods you wish to expose through your Custom Code Library must be declared static and public.
- The standard Confirmit script functions can be accessed with the Survey prefix and using the dot notation. For example, the f(..) function can be accessed from the Custom Code Library with Survey.f(..).
- You must compile your assembly with an AssemblyInfo.cs file. This file should have a fixed version number
 (for example 1.0.0.0). Do not use the star (*) notation as this will cause the assembly to be incompatible when
 upgrading Confirmit. The version information is located in the AssemblyVersion tag in the AssemblyInfo.cs file
 (see Figure 8).
- You must have your assembly signed with a key distributed by the Confirmit installation. This key is located at [confirmprogram]\bin\ GeneratorCode.snk. The location of the key file is specified in the AssemblyKeyFile tag in the AssemblyInfo.cs file (see Figure 8).
- Custom Code Libraries intended for use in Data Processing or Reportal do not need to reference Firmglobal.Confirmit.SurveyEngine.Common. or extend the Custom Code class.

```
using System;
using Firmglobal.Confirmit.SurveyEngine.Common;
namespace MyNamespace
      /// <summarv>
      /// Summary description for Class.
      /// </summarv>
      public class CustomCodeLibrary : CustomCode
       {
             private CustomCodeLibrary()
             {
             /// <summary>
             /// Example method
             /// </summary>
             /// <returns>A string with the current PID</returns>
             public static string GetCurrentPID()
             {
                    return Survey.CurrentPID();
             //TODO: Add your own methods here
      }
}
```

Figure 5 The C# syntax for the custom code class

If your custom code library needs access to a web service then we need to assert that permission with an attribute on the custom code class as shown in Figure 6 below.

```
using System;
using Firmglobal.Confirmit.SurveyEngine.Common;
using System.Net;
using System.Security.Permissions;
namespace MyNamespace
      /// <summary>
      /// Summary description for Class.
       /// </summary>
       [WebPermission(SecurityAction.Assert, Unrestricted = true)]
       public class CustomCodeLibrary : CustomCode
             private CustomCodeLibrary()
             {
             }
             /// <summarv>
             /// Example method
             /// </summary>
             /// <returns>A string with the current PID</returns>
             public static string GetCurrentPID()
             {
                    return Survey.CurrentPID();
             //TODO: Add your own methods here
       }
}
```

Figure 6 The C# syntax for the custom code class accessing Web Services

If your custom code needs access to other resources that are protected by a permission, then you will need to assert them also. The class definition can have a list of permissions, however you are recommended to assert only the permissions you need. Note that asserting permissions is a required procedure.

If you want your custom code to have unrestricted access to all resources then you can use the permission shown in Figure 7 below.

```
using System;
using Firmglobal.Confirmit.SurveyEngine.Common;
using System.Net:
using System.Security.Permissions;
namespace MyNamespace
      /// <summary>
      /// Summary description for Class1.
      /// </summary>
       [SecurityPermission(SecurityAction.Assert, Unrestricted = true)]
      public class CustomCodeLibrary : CustomCode
       {
             private CustomCodeLibrary()
             {
             }
             /// <summary>
             /// Example method
             /// </summary>
             /// <returns>A string with the current PID</returns>
             public static string GetCurrentPID()
             {
                    return Survey.CurrentPID();
             //TODO: Add your own methods here
}
```

Figure 7 The C# syntax for the custom code class accessing Web Services

```
using System.Reflection;
using System.Runtime.CompilerServices;
using System.Security;
//
// General Information about an assembly is controlled through the
// following set of attributes. Change these attribute values to
// modify the information associated with an assembly.
//
[assembly: AssemblyTitle("")]
[assembly: AssemblyDescription("")]
[assembly: AssemblyConfiguration("")]
[assembly: AssemblyCompany("")]
[assembly: AssemblyProduct("")]
[assembly: AssemblyCopyright("")]
[assembly: AssemblyTrademark("")]
[assembly: AssemblyCulture("")]
[assembly: AllowPartiallyTrustedCallers()] // Needed from Confirmit 11
// Version information for an assembly consists of the following four values:
//
//
       Major Version
//
      Minor Version
       Build Number
//
       Revision
//
//
// It's recommended not to use the star (*) notation
[assembly: AssemblyVersion("1.0.0.0")]
// Have the AssemblyKeyFile point to
// [confirmitprog]\bin\GeneratorCode.snk
[assembly: AssemblyDelaySign(false)]
[assembly: AssemblyKeyFile(@"C:\confirmit\prog\bin\GeneratorCode.snk")]
[assembly: AssemblyKeyName("")]
```

Figure 8 The C# syntax of the AssemblyInfo.cs file

3. Configuring Environment for Custom Code

The Custom Code deployment project must be installed and configured on your site before custom code deployment can take place. The following sub topics will cover installation of the Custom Code deployment project in Octopus, and deployment of the directory framework for Custom Code to function across the servers on your site.

3.1. Installation

Installation is split into three sections:

- 1. Creating the Custom Code project in Octopus.
- 2. Downloading and installing the Custom Code deployment package via Confirmit's chocolatey repository.
- Initializing the Custom Code project to create to base directories and workflows in Octopus in order to package your custom code and deploy it to your Confirmit servers.

3.1.1. Custom Code Project Creation

From your Octopus server, run the following command from the directory where Octopus was initially installed (typically **C:\confirmit.on-premise.install**) using the Powershell command line tool with admin privileges.

Add-CustomCodeProject

Figure 9 Creating the Custom Code project

This will create the CustomCode project on your Octopus installation.

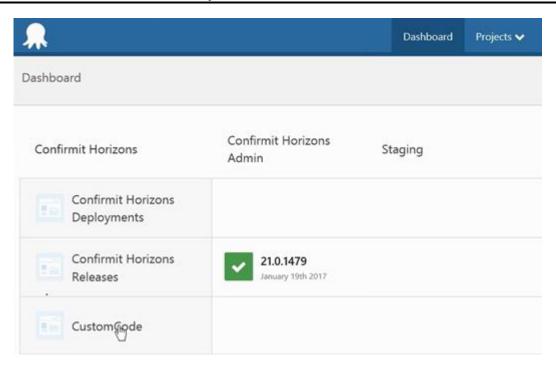


Figure 10 The CustomCode project

3.1.2. Installing the Custom Code Deployment Package

From your Octopus server, install the Custom Code deployment package using the following command:

choco install confirmit.on-premise.customcode -y

```
PS C:\> choco install confirmit.on-premise.customcode -y
Chocolatey v0.10.3
Installing the following packages:
confirmit.on-premise.customcode
By installing you accept licenses for the packages.

psake v4.6.0
psake v4.6.0
psake package files install completed. Performing other installation steps.
Adding C:\ProgramData\chocolatey\bin\psake.bat and pointing to C:\ProgramData\chocolatey\lib\psake\tools\psake.cmd
PSake is now ready. You can type 'psake' from any command line at any path. Get started by typing 'psake /7'
The install of psake was successful.
Software install location not explicitly set, could be in package or
default install location if installer.

confirmit.on-premise.customcode v1.0.0
confirmit.on-premise.customcode package files install completed. Performing other installation steps.
C:\Program Files\WindowsPowerShell\Modules\Confirmit.CustomCode
The install of confirmit.on-premise.customcode was successful.
Software install location not explicitly set, could be in package or
default install location not explicitly set, could be in package or
default install location if installer.

Chocolatey installed 2/2 packages. O packages failed.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
```

Figure 11 Installing the Custom Code deployment package

3.1.3. Initializing the Custom Code Deployment Package

Re-open your Powershell command line interface. This will import the Custom Code modules required for the initialization process.

Execute the following command:

```
Initialize-CustomCodeBuild
```

This will configure the Custom Code build system to connect to Octopus in order for your DLL's to be packages and deployed. Three parameters are required:

- Octopus URL The HTTP address for your Octopus interface. Example http://localhost:8000
- OctopusAPIKey An API key is required for connection to Octopus. This can be generated via the Octopus web interface under the User Profile / API Keys. Label the key with a name related to it's purpose (for example CustomCode) and the key will be generated. See below.

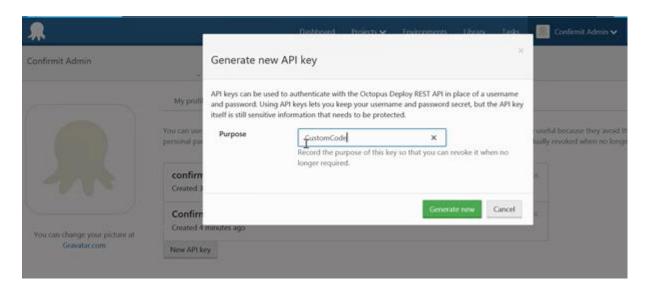


Figure 12 Labeling the key

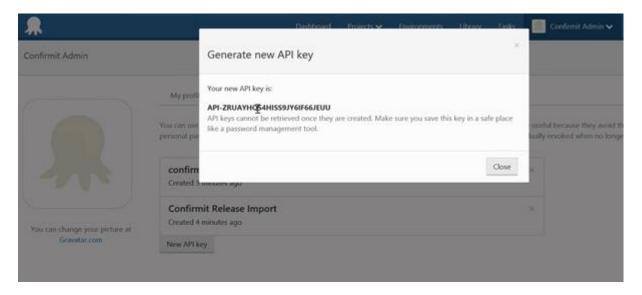


Figure 13 The generated key

• CustomCodeWorkingDir - This location will be used as a central repository for the libraries you plan to package and deploy by Octoups locally on this server. Example of this could be c:\confirmit\customcode.

Below is an example of these parameter being entered in Powershell, and the subsequent steps to create the custom code repository and sub-directories.

```
PS C:\> Initialize-CustomCodeBuild
cmdlet Initialize-CustomCodeBuild at command pipeline position 1
Supply values for the following parameters:
OctopusUrl: http://localhost:8000
OctopusApiKey: API-ZRUAYHQS4HISS9JY6IF66JEUU
CustomCodeWorkingDir: c:\confirmit\customcode
       Directory: C:\confirmit
Mode
                                  LastWriteTime
                                                                        Length Name
                                                                                    customcode
                        1/19/2017 2:29 PM
PS C:\> cd C:\confirmit\customcode
PS C:\confirmit\customcode> ls
       Directory: C:\confirmit\customcode
Mode
                                  LastWriteTime
                                                                        Length Name
                       1/19/2017
1/19/2017
1/19/2017
1/19/2017
1/19/2017
                                            2:29 PM
2:29 PM
2:29 PM
2:29 PM
                                                                                    reporting_customcode
d----
                                                                            ruleengine_customcode
survey_customcode
151 build.ps1
d----
 -a---
                                            2:29 PM
                                                                             171 rebuild.ps1
PS C:\confirmit\customcode>
```

Figure 14 Entering the parameters in Powershell

4. Deploying the Custom Code Library DLL

The Custom Code Library DLL created using Jscript (see Creating the DLL using Jscript .NET on page 2 for more information) or using C# (see Creating the DLL using C# on page 4 for more information) must be deployed to folders on the Confirmit servers. The following process describes where to place your custom code libraries and how to deploy these to your environment.

Confirmit supports project or company-specific Custom Code Library DLLs in addition to server-wide accessible Custom Code Library DLLs. Custom code libraries must have unique names.

4.1. Custom Code Library Types

As shown in the 'Initializing the Custom Code Deployment Package' section (see Initializing the Custom Code Deployment Package on page 10 for more information), three directories are created in the 'CustomCodeWorkingDir'

- survey_customcode
- ruleengine_customcode
- reporting_customcode

Compiled custom code libraries in these directories will be included in the release created via the powershell scripts described in the 'Creating a new build' section . See the following section for descriptions for each custom code directory and where to add your custom code.

4.1.1. Custom Code Libraries Accessible Through Survey Scripting

Custom code variables can be used to extend the scripting functionality in Confirmit surveys. These libraries can be made available for all projects on your site, or restricted to specific projects.

4.1.2. Server-wide Accessible Custom Code Libraries

If you want some Custom Code Library functions to be available from all surveys across all companies, the Custom Code Library DLLs must be put into the following folder:

```
survey_customcode\CustomCode
```

4.1.3. Custom Code Libraries Available only for Specific Surveys

If you want some Custom Code Library functions to be available only for specific surveys, the Custom Code Library DLLs must be put in the following folder:

```
survey_customcode\ProjectCustomCode\bin
```

The ProjectCustomCode folders should contain a config file for all projects that are to use any of the DLLs in the bin directory .config. For example **p01234567.config**.

This config file should be put in the following directory (the parent directory to the bin directory):

```
survey customcode\ProjectCustomCode
```

4.1.4. Custom Code Libraries Accessible through Data Processing

If you want Custom Code Library functions to be available from Data Processing Action Scripts, the Custom Code Library DLLs must be put into the following folder:

```
ruleengine customcode\RuleEngineCustomCode
```

4.1.5. Custom Code Libraries Accessible Through Reportal

Custom code libraries can be made available in Reportal, and can help extend the scripting capabilities.

Note: Unlike Survey or Data Processing customer code, where libraries can be available for all projects, Reportal Custom Code must be associated to a Company ID or Report number using a configuration file. See the following two sections for guidance on how these are created.

4.1.6. Report-Specific Reportal Custom Code Libraries

If you want Reportal Custom Code Library functions to be available only for specific reports, the Custom Code Library DLLs must be put in the following directory:

```
reporting customcode\ReportCustomCode\bin
```

In addition, the ReportCustomCode folders should contain one config file for each report that is to use any of the DLLs in the bin directory. Report_<reportnumber>.config. For example: Report_3.config, where 3 is the report number for the report you want to give access to the custom code library. The config file should list all Custom Code Library DLLs used by a report, for example:

```
<?xml version="1.0"?>
<configuration>
<appSettings>
<add key="assemblies" value="reportSpecificCCL.dll"/>
</appSettings>
</configuration>
```

If you have more than one assembly you want to access for your specific report, you can separate the assemblies with semicolons (e.g. <add key="assemblies" value=" reportSpecificCCL.dll;common_report.dll "/>).

This config file should be put in the following directory (the parent directory to the bin directory):

```
reporting customcode\ReportCustomCode
```

4.1.7. Company-Specific Reportal Custom Code Libraries

If you want Reportal Custom Code Library functions to be available only for a specific company, the Custom Code Library DLLs must be put in the following folder:

```
reporting customcode\CustomerCustomCode\bin
```

The CustomerCustomCode folders should contain one config file for each company that is to use any of the DLLs in the bin directory. Customer_<companyid>.config. For example: Customer_3.config where 3 is the id of the company you want to give access to the custom code libraries. The config file should list all Custom Code Library DLLs used by a company, for example:

```
<?xml version="1.0"?>
<configuration>
<appSettings>
<add key="assemblies" value="reportSpecificCCL.dll"/>
</appSettings>
</configuration>
```

If you have more than one assembly you want the company to have access to, you can separate the assemblies with semicolons (e.g. <add key="assemblies"value=" reportSpecificCCL.dll;common_report.dll "/>).

This config file should be put in the following directory (the parent directory to the bin directory):

```
reporting customcode\ReportCustomCode
```

4.2. Creating a New Build

Execute 'build.ps1' from your Custom Code working directory. This will package all files under the customcode directories and create a release that can be deployed via Octopus. Every time files are updated in any of the directories and 'build.ps1' is executed, a new release is created.

The following is an example of the output created during the build process where a version 0.3 of the Custom Code release is created. This release number shown after build completion will coincide with the version available in the Octopus interface

```
Handshakes successful Octopus version: 3,12.7; API version: 3.0.0
Authenticated as: Confirmit Admin
This Octopus Server supports channels
Finding project: CustomCode
Automatically selecting the best channel for this release...
Building a release plan for Channel 'Default'...
Finding deployment process...
Finding release template...
Finding lase version for some steps was not specified. Going to try and resolve those automatically...
Finding lase that have been supported to the process...
Finding latest package version for some steps was not specified. Going to try and resolve those automatically...
Finding latest package version for some steps was not specified. Going to try and resolve those automatically...
Finding latest package version for some steps was not specified. Going to try and resolve those automatically...
Finding latest package version for some steps was not specified. Going to try and resolve those automatically...
Finding latest package for step: Confirmit servectureCode of 2017, 5.18.150831' for 'Confirmit.RuleEngineCustomCode' version '2017, 5.18.150831' for 'Confirmit.RuleEngineCustomCode' Selected 'Confirmit.ReportingCustomCode' Selected 'Confirmit.ReportingCustomCode of 2017, 5.18.150831' latest available Allow any version and the selection of the selec
```

Figure 15 Example of the output created during the build process

rebuild.ps1 forces a new release to be created regardless of whether there are new files or not.

4.3. Deploying Custom Code

From the Octopus interface, the release that was created can be deployed to the environment of your choice. The interface and method are the same as how Horizons releases are deployed.

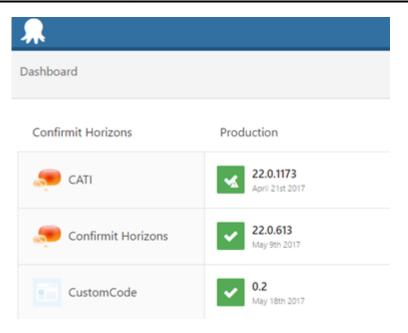


Figure 16 Deploying custom code

Select the CustomCode project. This will show currently deployed releases (marked with a tick) and other versions available for deployment.



Figure 17 The currently deployed release

Select **Deploy** to the environment you require will open the deployment screen, from where you can begin the deployment. Select **Deploy now** to proceed.

- Adding the DLLs will cause the AppDomain to flush for the Authoring, Reportal and Survey Engine
 applications. This will make the next request to these applications slower due to aspx compilation.
- The Tasks System is restarted during the deployment process.

5. Using the Custom Code Library from Confirmit Script Code

To use your Custom Code Library from your code, you simply call the methods with ClassName.MethodName(..). For example CustomCodeLibrary.GetCurrentPID(). You do not need to specify the namespace where the class is defined. Figure 18 below shows an example of an info node where CustomCodeLibrary.GetCurrentPID() is used in a text piping.

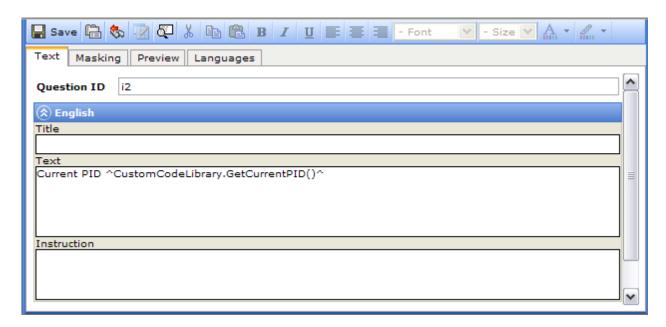


Figure 18 An info node that calls the custom code method CustomCodeLibrary.GetCurrentPID()

6. Using the Custom Code Library from DP Action Script

To use your Custom Code Library from your Action Script code, you simply call the methods with ClassName.MethodName(..). For example DPccl.HelloWorld(). You do not need to specify the namespace where the class is defined.

The figure below shows an example where the variable q2 is assigned the value returned from DPccl.HelloWorld(). In this example, the custom code will be called for each data record in the source.

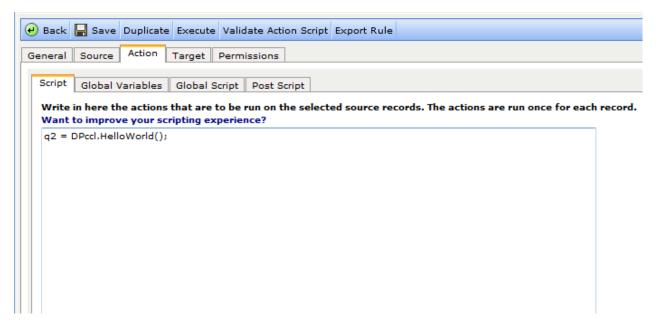


Figure 19 Using the Custom Code Library from a Data Processing Action script

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