

FINAL DRAFT

Property Control System – Service Setup & Configuration



MS Govern Property Control Service Setup & Configuration

Release 4.7.3 Version 1

Last Revision Update: 10/2/20

MS Govern
Property Control Service
Setup and Configuration
Version: 1.0
September 2012 - Release 4.7
Copyright © MS Govern 1997 - 2012
All rights reserved

Disclaimer

MS Govern Software applications are developed using Microsoft's .NET Technology. Applications are intended for use within the .NET Framework.

MS Governs' API Documentation is provided with the understanding that implementation of described methods and contracts will be with .NET Development tools and select programming languages. Users should note that with the exception of MS Governs' Methods or Contracts that are implemented with Visual Basic .NET and C#, MS Govern Software does not provide development guidance or support.

MS Govern has taken due care in preparing this manual. However, nothing contained herein modifies or alters in any way the standard terms and conditions of the purchase, lease, or license agreement by which the product was acquired, nor increases in any way the liability of MS Govern to the customer.

This page is intentionally blank

Preface

Welcome to *Govern* for Windows, a comprehensive and fully integrated transaction-driven system written exclusively for local governments. *Govern* includes a wide variety of database modules:

Computer-Assisted Mass Appraisal (CAMA)

- Appeals & Grievances
- Appraisals / Property Valuations
- Comparables Sales Management
- Financial Management
- Account Receivable
- Cash Collection

Land Management

- Business & Individual Licenses
- Complaint Tracking
- Leasing
- Permit Tracking & Inspection Scheduling
- Planning
- Violations

Revenue Management

- Aircraft & Boat Excise Tax
- Miscellaneous Billing
- Personal Property Tax Billing
- Real Property Tax Billing
- Self-Reported Tax Billing
- Special Assessments
- Tax Title / Tax Lien / Tax Sales
- Utility Billing

Since 1980, *MS Govern* has worked hand-in-hand with State and Local Governments to simplify the implementation of software solutions that automate the flow of information related to their properties.

This page is intentionally blank

Table of Contents

Preface	5
Setup of the Property Control System Web Service	9
Users with the Web Service already installed	9
Content of Install Package	9
Installation	9
Step 1 – Create the Web Service Folder	9
Step 2 – Modify the <i>web.config</i> file	11
Step 3 – Update your .DLL files	12
Step 4 – Make Modifications to the GovernNetConfig.xml file	12
Step 5 – Copy Resource Files	13
Step 6 – Convert the Web Service folder into an Application	13
Changing the Application Pool to ASP.NET v4.0	14
Testing the service	15
A Note to Users of 64-bit versions of Windows.....	15
Using the WCF Test Client Application	17
Viewing the Contents of a Service	17
Viewing a Method.....	18
Testing a Method	19
Testing the GISGetElementValue / GISSetElementValue Methods.....	22
Testing Get Element Value / Set Element Value / Get Table Column	22
Get Element Value	22
Set Element Value (<i>Updated</i>).....	25
Set Element Value (<i>Insert</i>)	27
Get Table Column	28
TROUBLE SHOOTING.....	30
Connections	30

Setup of the Property Control System Web Service

WARNING: Always make a backup of your **web.config** file and the content of your **Resource Files** folder, as these files may be inadvertently overwritten during this procedure.

The following setup procedure is for installing the Property Control System Web Service.

Users with the Web Service already installed

If you already have the Web service installed, and are performing an update, the only action required is to copy the new .DLL's into your already existing **bin** folder. See the **Step 3 – Update your .DLL files** section below.

Content of Install Package

The *Property Control Web Service* installation files are distributed in a .zip archive package called WSPROPERTYCONTROL4.X.X.X.zip. (The X's refer to version numbers). Contact MS Govern Technical Support for the location of the package.

The content of the package is as follows. There are three (3) folders titled as follows:

- 1 - WebService IN IIS** (Web Service files that are to be copied into the **wwwroot** IIS folder)
- 2 - Resource Files** (Resource files)
- 3 - Test Application** (Test application and support files testing the Property Control)

Installation

Step 1 – Create the Web Service Folder

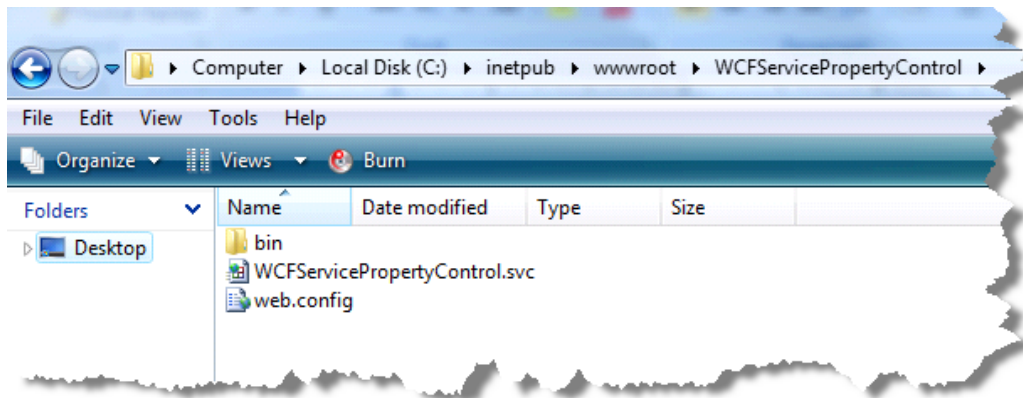
1. In the IIS folder, create a new *Web service* folder called **WCFSERVICEPROPERTYCONTROL**.
2. In a temporary folder outside of the IIS folder, unzip the install package contents.

WARNING: Make a backup of your **web.config** file, and the content of your **Resource Files** folder, as these files may be inadvertently overwritten during this procedure.

3. In the folder with the restored files, copy the contents of the **“1 - WebService IN IIS”** folder to the Web Service IIS folder; maintain the directory structure.

Your IIS folder with directory structure should now look like the following.

bin (folder containing .DLL's)
WCFSERVICEPC.svc (service file)
web.config (Web config file)



The **web.config** file that has been copied from the package contains the following lines:

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <system.diagnostics>
    <sources>
      <!-- This section defines the logging configuration for My.Application.Log -->
      <source name="DefaultSource" switchName="DefaultSwitch">
        <listeners>
          <add name="FileLog"/>
          <!-- Uncomment the below section to write to the Application Event Log -->
          <!--<add name="EventLog"/>-->
        </listeners>
      </source>
    </sources>
    <switches>
      <add name="DefaultSwitch" value="Information" />
    </switches>
    <sharedListeners>
      <add name="FileLog"
        type="Microsoft.VisualBasic.Logging.FileLogTraceListener,
        Microsoft.VisualBasic, Version=8.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a,
        processorArchitecture=MSIL"
        initializeData="FileLogWriter"/>
      <!-- Uncomment the below section and replace APPLICATION_NAME with the name of your
      application to write to the Application Event Log -->
      <!--<add name="EventLog" type="System.Diagnostics.EventLogTraceListener"
      initializeData="APPLICATION_NAME"/> -->
    </sharedListeners>
  </system.diagnostics>

  <appSettings>
    <add key="MSGovern.GovernNetConfig" value="C:\MSGovern\GovernNetConfig.xml"/>
  </appSettings>

  <!-- Local host service url which will be available once start -->
  <system.serviceModel>
    <bindings>
      <basicHttpBinding>
        <binding name="soapBinding">
          <security mode="None">
```

```

        </security>
    </binding>
</basicHttpBinding>

<webHttpBinding>
    <binding name="webBinding">
    </binding>
</webHttpBinding>
</bindings>

<behaviors>

    <endpointBehaviors>
        <behavior name="jsonBehavior">
            <enableWebScript />
        </behavior>
    </endpointBehaviors>

    <serviceBehaviors>
        <behavior name="MyServiceBehavior">
            <serviceMetadata httpGetEnabled="true" />
            <serviceDebug includeExceptionDetailInFaults="true" />
        </behavior>
    </serviceBehaviors>
</behaviors>

<services>
    <service
        name="MSGovern.WCFServicePC.SV_PropertyControl"
        behaviorConfiguration="MyServiceBehavior"
        <endpoint address="soap"
            contract="MSGovern.WCFServicePC.IPropertyControlService"
            binding="basicHttpBinding"
            bindingConfiguration="soapBinding"
            name="HttpEndPoint" />

        <endpoint address="json"
            contract="MSGovern.WCFServicePC.IPropertyControlService"
            binding="webHttpBinding"
            bindingConfiguration="webBinding"
            behaviorConfiguration="jsonBehavior"
            name="JsonEndPoint" />

        </service>
</services>
</system.serviceModel>
</configuration>

```

Step 2 – Modify the *web.config* file

With a text editor like **Notepad.exe** open the **web.config** file and go to the section with the **<appSettings>** XML tag:

```

<appSettings>
    <add key="MSGovern.GovernNetConfig" value="C:\MSGovern\GovernNetConfig.xml" />

```

```
</appSettings>
```

Make sure the path to the *GovernNetConfig.xml* file is changed to reflect the current location.

For example:

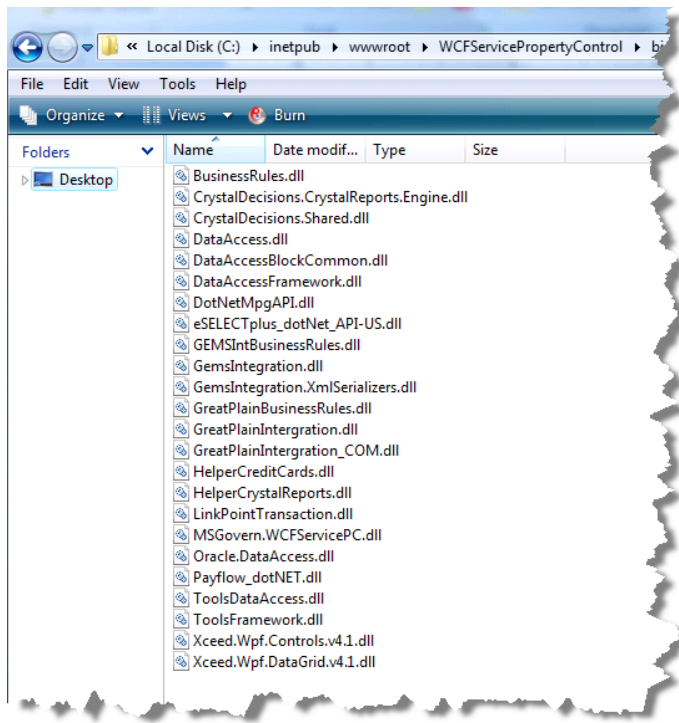
```
<add key="MSGovern.GovernNetConfig" value="\\Server\inetpub\wwwroot\GovernNetConfig.xml"/>
```

NOTE: If you already had a prior installation, and your **web.config** file that was backed up as recommended, copy it back, replacing the one in the package.

Step 3 – Update your .DLL files

Locate your bin directory in your existing IIS folder that contains the service and delete all .DLL's.

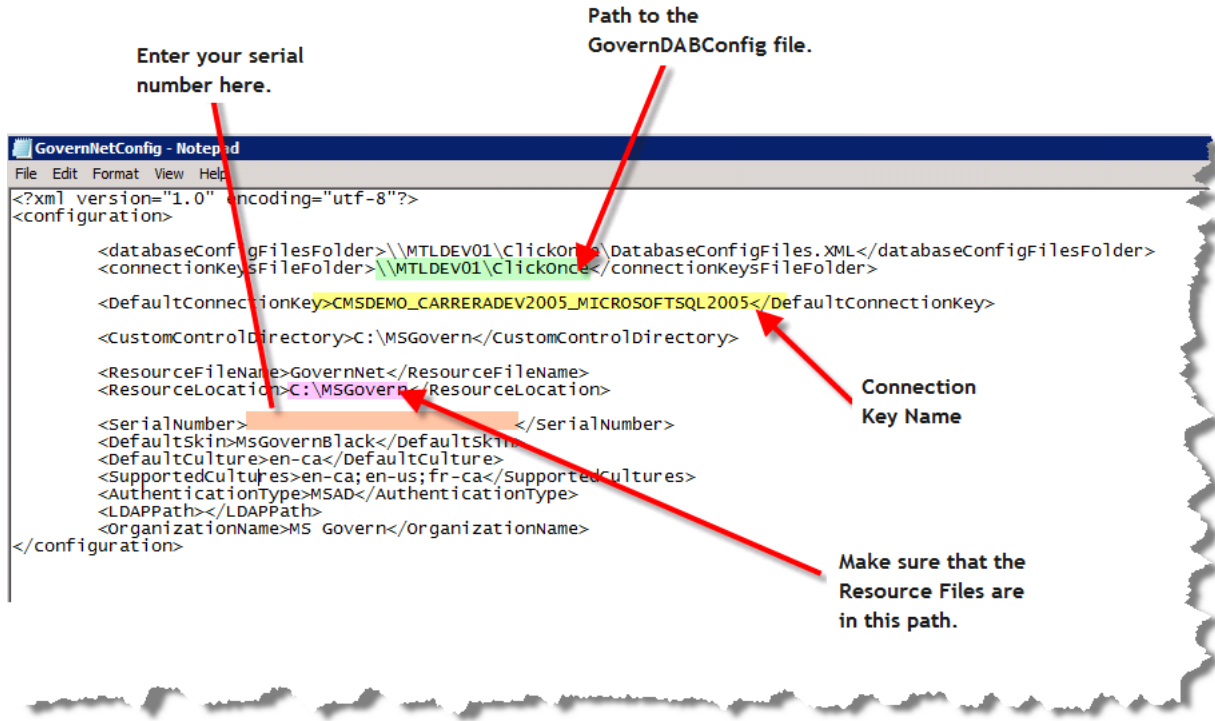
Copy the new .DLL files from the “1 - WebService IN IIS/bin” sub folder of the install package and paste them into the IIS service bin folder.



Step 4 – Make Modifications to the GovernNetConfig.xml file

Open your **GovernNetConfig.xml** file with a text editor, and perform the following verification and modifications; this file may be located in the *Deployments* folder.

- Verify that the path to the **<databaseConfigFilesFolder>** is correct.
- Ensure that the path in the **<connectionKeysFileFolder>** is correct.
- Confirm that the name of your *Connection Key* is correct in the **<DefaultConnectionKey>** section.
- Verify that the path in the **<ResourceLocation>** section is correct; this is the location of your resource files.



Step 5 – Copy Resource Files

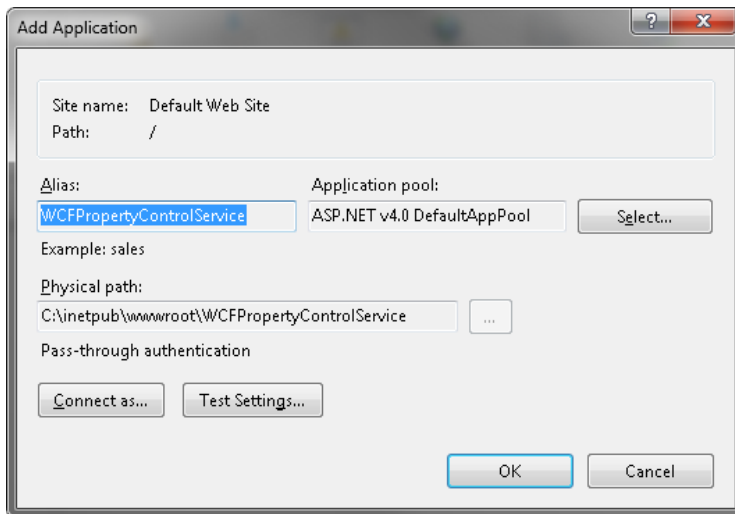
WARNING: The following step is for new installations only.

1. In the restored package files, copy the resource files that are in the “2 – Resource Files”.
2. Go to the location of your resource files; they are indicated in the path seen in **<ResourceLocation>** tag in the *GovernNetConfig.xml* file and paste them into the folder.

NOTE: Users with pre-existing installations, if you have overwritten your *resource files*, restore them with your backup files.

Step 6 – Convert the Web Service folder into an Application

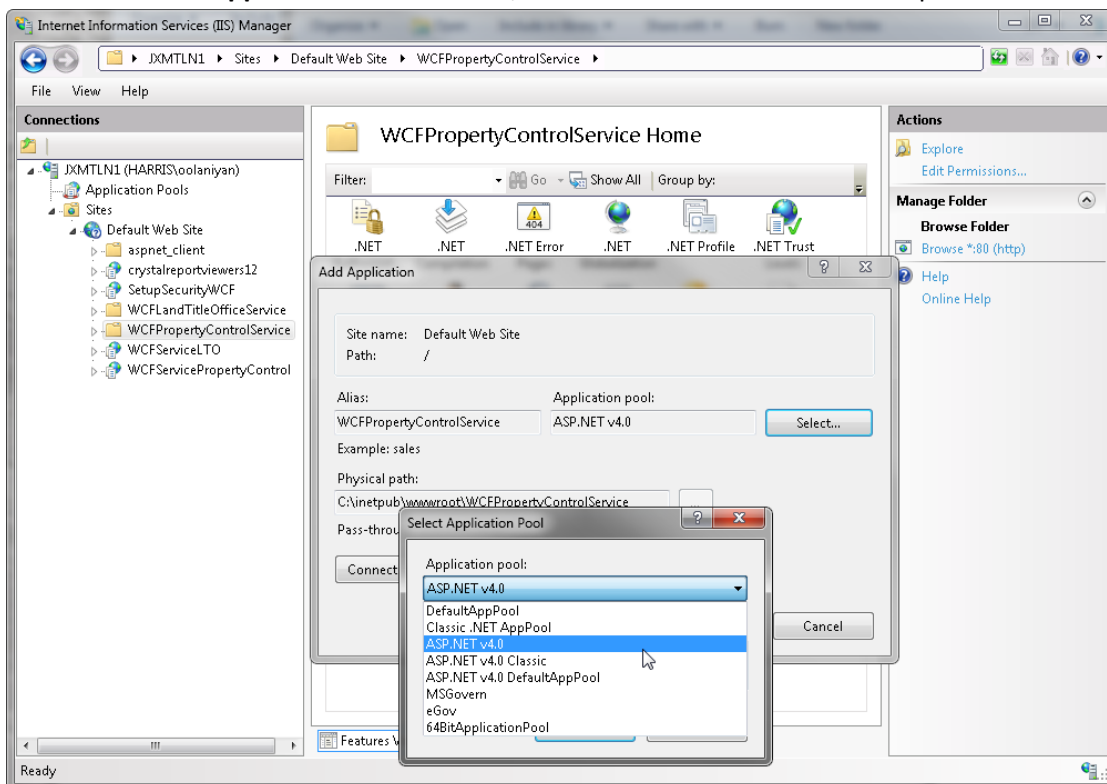
1. In the Control Panel, open the **Internet Information Services (IIS) Manager**.
2. Drill down to the location of the service folder.
3. Right click on the folder and select **Convert to Application**.



4. In the *Add Application* window, verify that the Application pool is set to **ASP.NET v4.0**. If the application pool is not set to ASP.NET v4.0, do the following:

Changing the Application Pool to ASP.NET v4.0

5. Click **Select...**
6. In the **Select Application Pool** window, select ASP.NET v4.0 from the drop down list and Click **OK**.

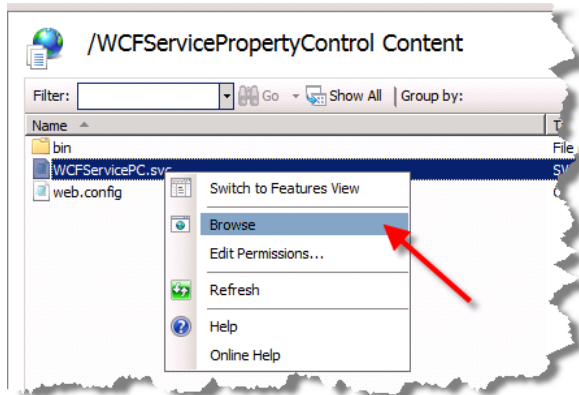


7. Click **OK** again to return to the IIS Manager.

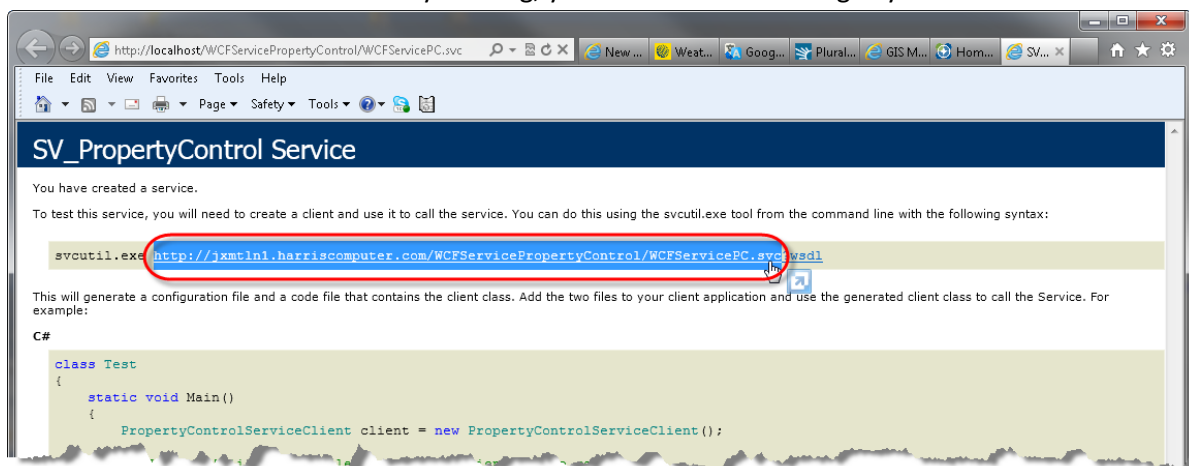
This completes the installation procedure for the Web service.

Testing the service

1. In the *IIS Manager*, if you are not in the Content View, right click on the *WCFSERVICEPropertyControl* icon and select **Content View** from the floating menu.
2. In the center pane, right click on *WCFSERVICEPC.svc* and select **Browse** from the floating menu; this action will launch your Web browser.



3. When the service is successfully running, you will see the following in your browser window.



4. In the browser window, copy the path without the “?wsdl”, “/soap”, or “/json” depending on the protocol that you are using.

NOTE: Take a note of the service URL, it will be needed when using the *Test Client* application

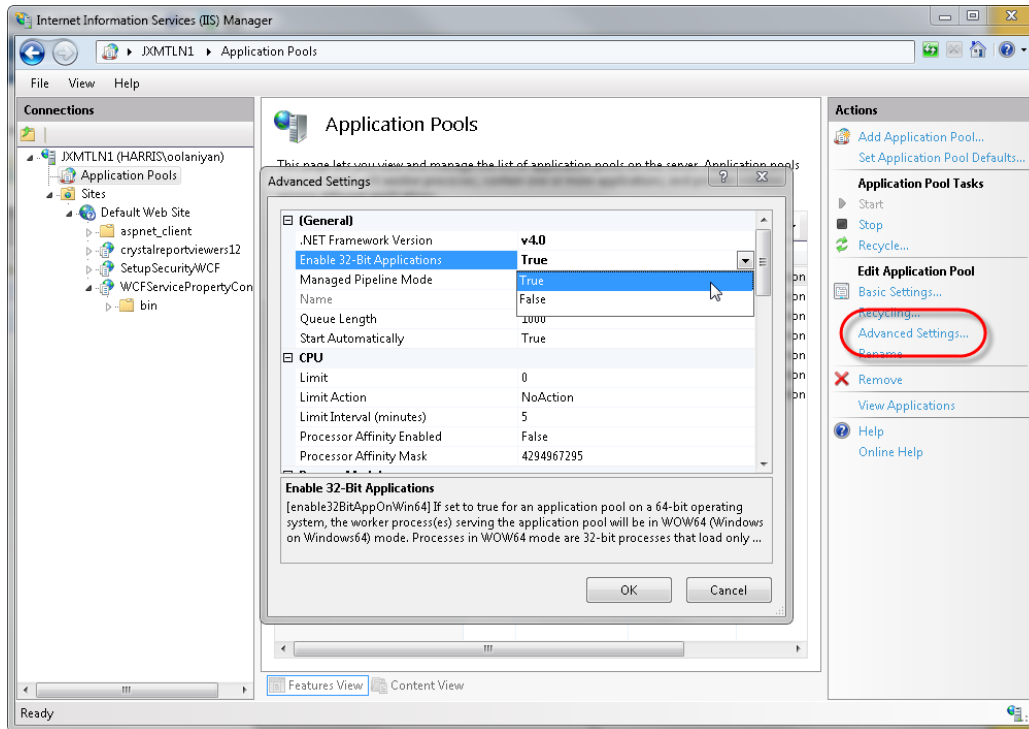
A Note to Users of 64-bit versions of Windows

When using a 64-bit version of Windows, ensure that the *Application Pool* is enabled to allow for 32-bit applications.

To enable for 32-bit applications...

1. In the *IIS Manager*, select **Application Pools**.
2. In the middle pane, click to select the application pool that your service is running in
3. Under the *Actions* pane on the right hand side, click to select **Advanced Settings...**

4. In the Advanced Settings form, locate the **Enable 32-bit Applications** parameters and set it to **True**.



5. Click **OK** to save the configuration.
6. Exit from the *IIS Manager*.

Using the WCF Test Client Application

NOTE: Windows Communication Foundation (WCF) is an API in the .NET Framework. Although *MS Governs WCF PC Web Services* supports *JavaScript Object Notation (JSON)* serialization to WCF, *MS Govern* does not provide developmental technical support for this type of implementation.

When any of the Web Services are running, you can use the *Test Client* application that is included in the download package to test the services. The test client is found in the “**3 – Test Application**” folder of the install package.

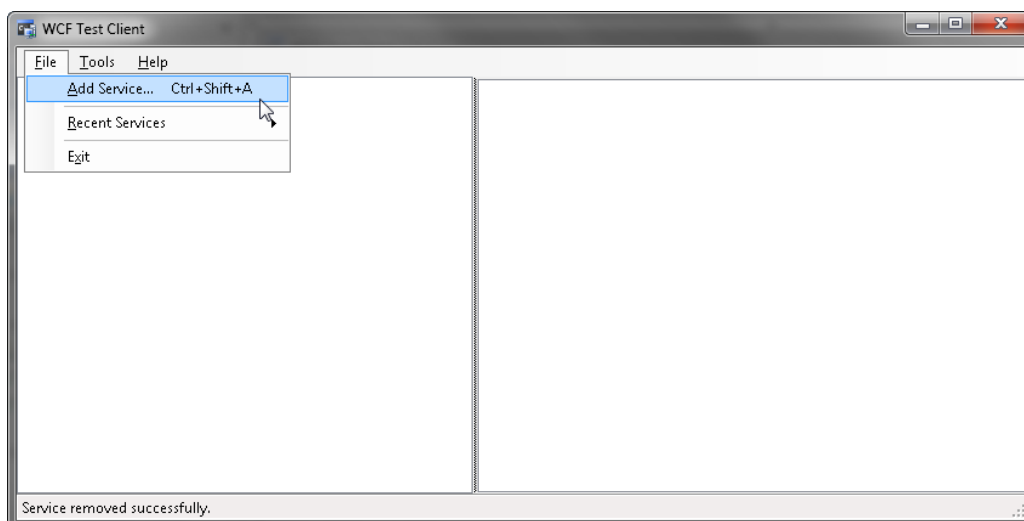
NOTE: Prior to starting the test application, locate the service URL that was recorded when testing the service. Refer to the [Testing the Service](#) section of this document.

To run the test application...

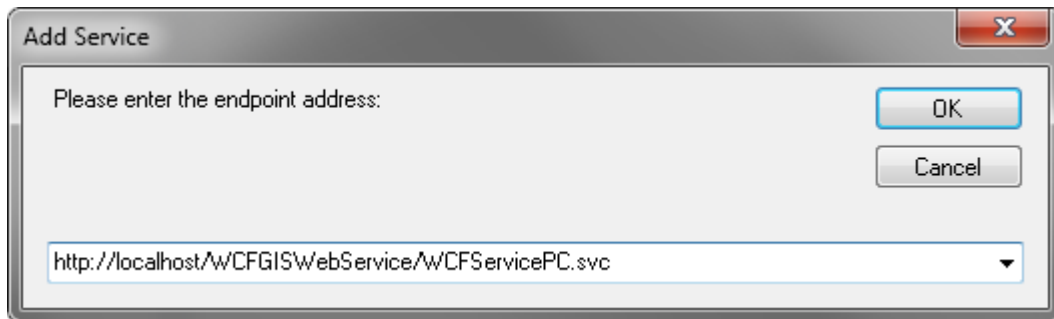
1. Locate the install package and look for the **3 – Test Application** folder.
2. Inside the folder, locate the **WcfTestClient.exe** application.
3. Double click to start the application.



Viewing the Contents of a Service



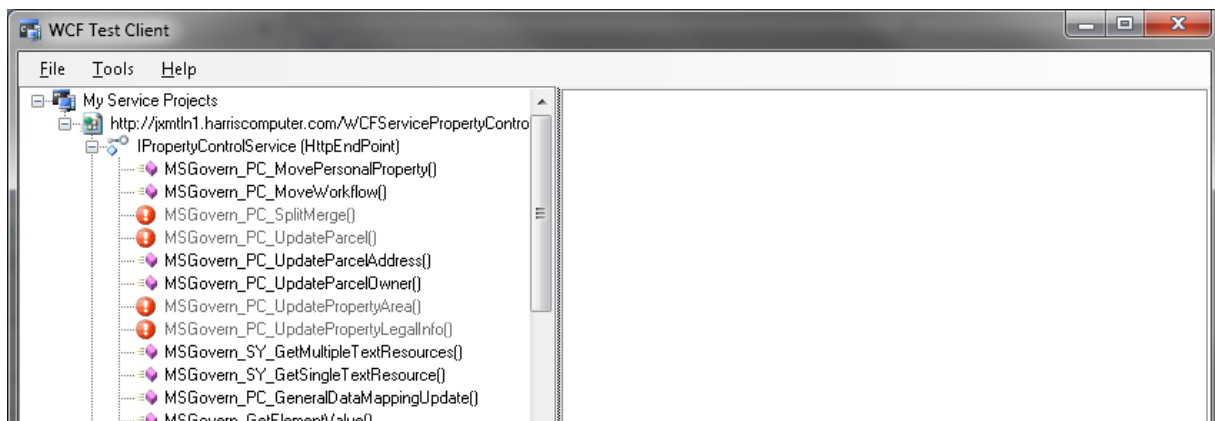
4. In the open WCF Test Client, select *File* > **Add Service (Ctrl + Shift + A)** to add a service. In the **Add Service** screen, paste the URL of the service.



5. Click **OK**.

After the service has been successfully added, the WCF Test Client Screen is displayed with all the methods that are available in the service.

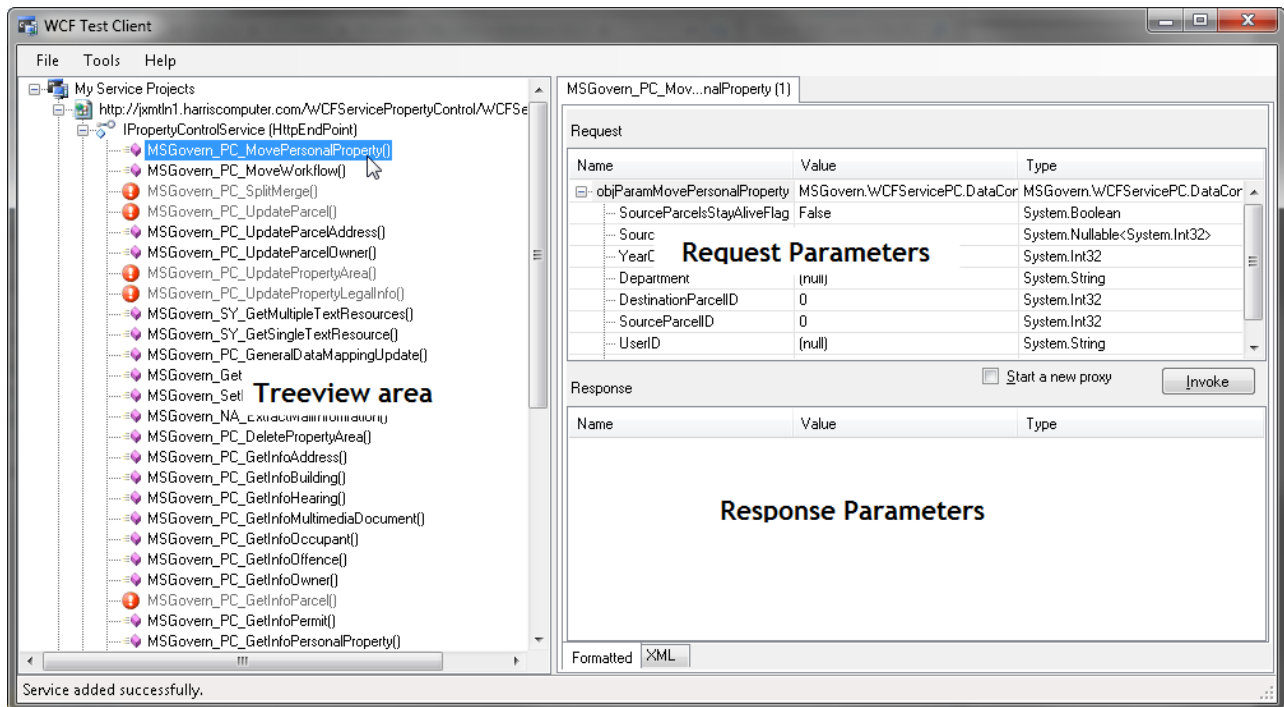
NOTE: Multiple services can be tested by selecting *File > Add Service (Ctrl + Shift + A)*.



Viewing a Method

To view a method, double click on it in the treeview area. On the Right hand side, the parameters will be displayed in the Request Parameters area.

NOTE: Methods that are not supported by the WCF client are listed with a red exclamation mark beside them.

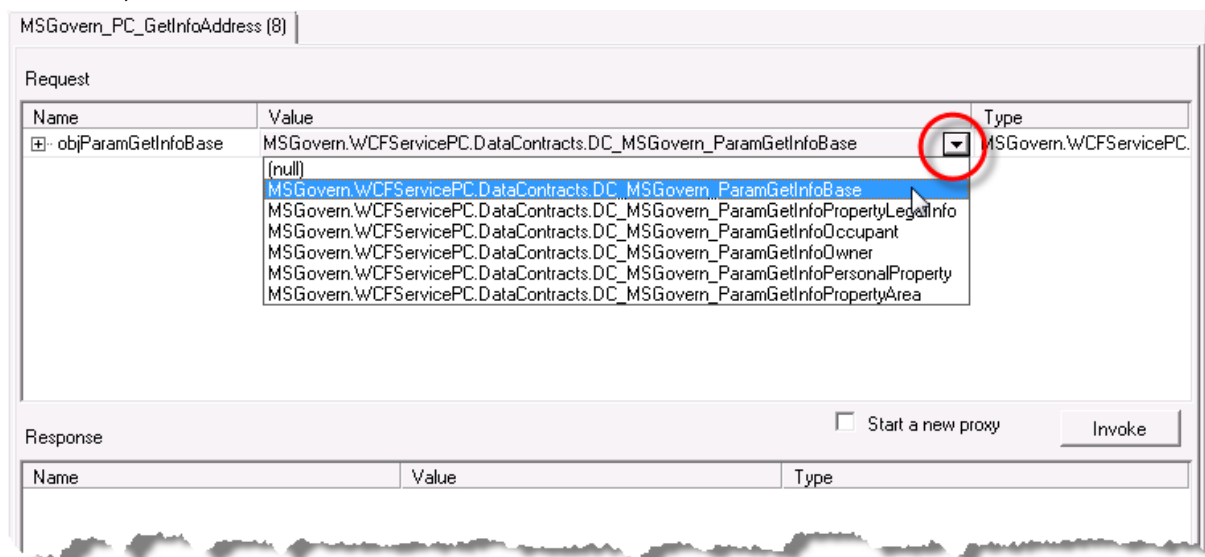


Testing a Method

For this example we want to test the **MSGovern_PC_GetInfoAddress** method. This method returns information on the address of a given property. When used, a selection of address objects will be returned.

To test the method:

1. Double click on the **MSGovern_PC_GetInfoAddress** method to select it in the treeview area.
2. The objects for the method are displayed on the right hand side.
3. Under the **Value** column click in the column and select one of the parameters from the drop down menu; this is the information that will be sent to the client.



TIP: The available items in the list may be difficult to see, but the column can be expanded manually or with a double click on the space between the column headings.

MSGovern_PC_GetInfoAddress (6)

Request

Name	Value	Type
objParamGetInfoBase	MSGovern.WCFServicePC.DataContracts.DC_MSGovern_ParamGetInfoBase	MSGovern.WCFServicePC.DataContracts.DC_MSGovern_ParamGetInfoBase
...FrozenID	(null)	System.Nullable<int>
...YearID	(null)	System.Nullable<int>
...Department	(null)	System.String
...ParcelID	0	System.Int32

- When one of the parameters is selected, you will see a "+" appear beside the name indicating that parameters will need to be provided.
- Click on the plus to expand the list of fields that need to be populated with information, including a username and password.

MSGovern_PC_GetInfoAddress (10)

Request

Name	Value
objParamGetInfoBase	MSGovern.WCFServicePC.DataContracts.DC_MSGovern_ParamGetInfoBase

MSGovern_PC_GetInfoAddress (10)

Request

Name	Value	Type
objParamGetInfoBase	MSGovern.WCFServicePC.DataContracts.DC_MSGovern_ParamGetInfoBase	MSGovern.WCFServicePC.DataContracts.DC_MSGovern_ParamGetInfoBase
...Department	(null)	System.String
...ParcelID	0	System.Int32
...UserID	(null)	System.String
...UserPassword	(null)	System.String

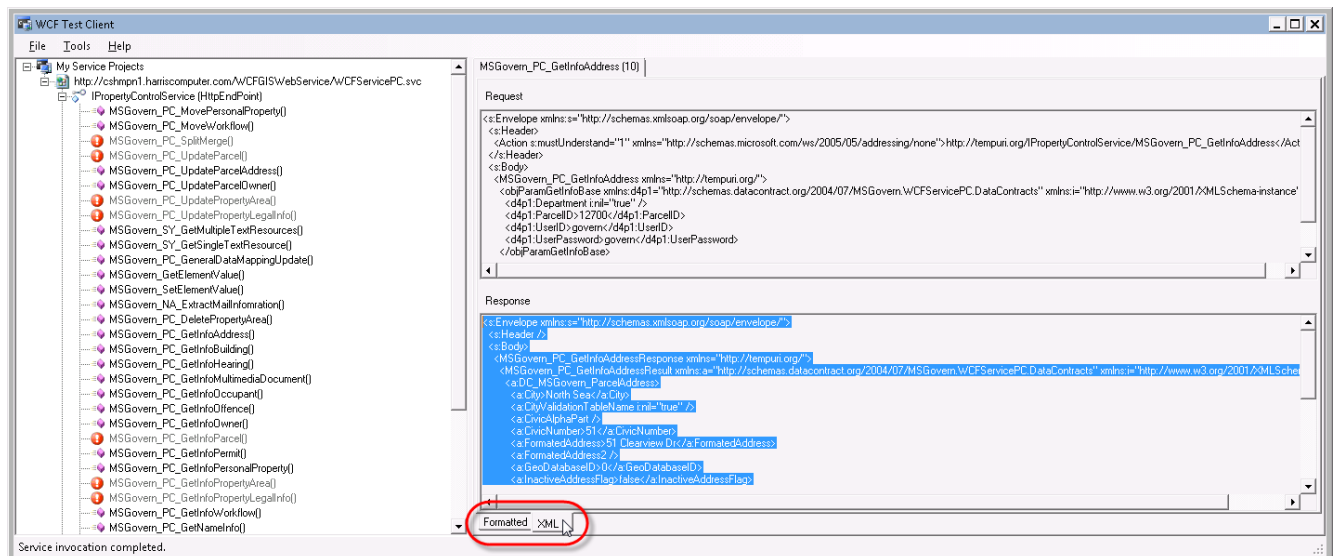
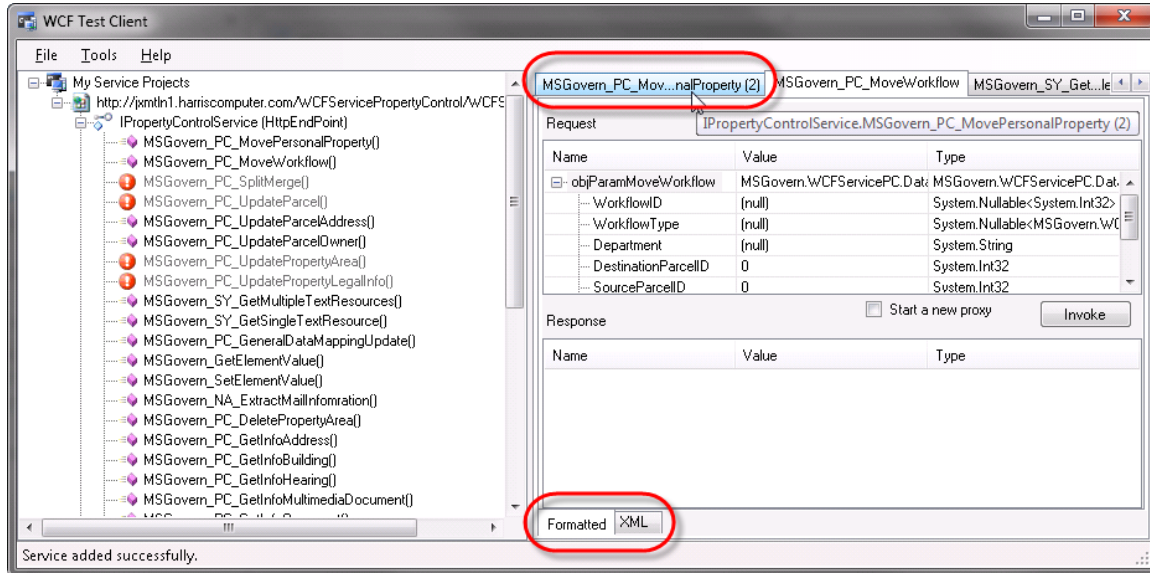
Response

☐ Start a new proxy

Name	Value	Type
------	-------	------

- When parameters are to be entered, click in the field to highlight the existing parameter, delete and enter the required values; for this method, values are required for Department, ParcelID, UserID, and a UserPassword.
- When the fields have been completed, click **Invoke** to enter the request.
- When the test is successful, a "Response" is sent back and displayed in the **Response Parameters** area in the lower right hand section of the client.

As a new method is selected for testing, a tab is displayed at the top of the Request Parameters area for easy selection. In addition the request and response parameters can be displayed in two (2) modes, **Formatted**, and **XML**. You can switch between the two views with a click on the corresponding tabs along the bottom of the *Request Parameters* pane.



NOTE: Methods that are not supported by the WCF client are listed with a red exclamation mark beside them.

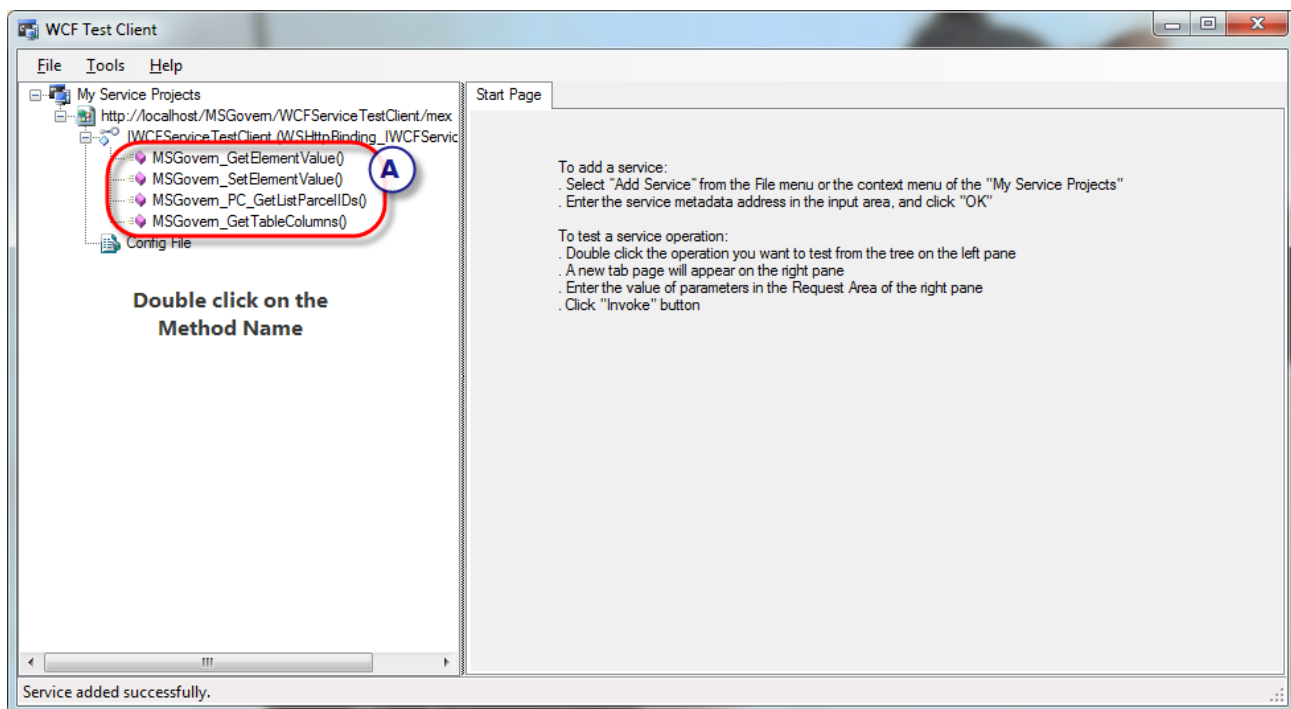
Testing the GISGetElementValue / GISSetElementValue Methods

NEW! Two (2) new GIS related methods have been added to the Property Control Web Service. The methods are called *MSGovern_GetElementValue*, and *MSGovern_SetElementValue*. Refer to the **MS Govern Property Control System Service API** document for details about these methods.

When an external application, e.g. a GIS application, is required to communicate with the Govern system, it will need to understand how data is stored within the system. The **GISGetElementValue** will allow you *Retrieve* data, and the **GISSetElementValue** method will allow you to *Update*, or *Delete* data.

In order to be able to accomplish the aforementioned actions through the Web service, you must first map the required tables and columns within Govern's database, to unique *Data Element Names*. Refer to the **Data Mapping Editor** section of the *Govern Net Admin (GNA) release 4.7* user guide for details, steps for using the *WCF Test Client* application.

Testing Get Element Value / Set Element Value / Get Table Column



The following are the procedures for testing the *Get Element Value*, *Set Element Value*, and the *Get Table Column* methods (A) with the WCF Application.

Get Element Value

In the WCF Test Client...

1. Double click on *MSGovern_GetElementValue*
2. Set *User_ID* and *Password* in *objParamAuthentication*

MSGovern_GetElementValue		
Request		
Name	Value	Type
objParamAuthentication	MSGovern.WCFServicePC.DataContracts.I	MSGovern.WCFServicef
Department	(null)	System.String
UserID	govem	System.String
UserPassword	govem	System.String
objParamGetElement	MSGovern.WCFServicePC.DataContracts.I	MSGovern.WCFServicef
ListElements	length=0	MSGovern.WCFServicef
ListParcelID	length=0	System.Int32[]

In the objParamGetElement, set the following:

- Set length=1 in ListParcel and set the p_id.

Name	Value	Type
objParamAuthentication	MSGovern.WCFServicePC.DataContracts.I	MSGovern
Department	(null)	System.Sti
UserID	govem	System.Sti
UserPassword	govem	System.Sti
objParamGetElement	MSGovern.WCFServicePC.DataContracts.I	MSGovern
ListElements	length=0	MSGovern
ListParcelID	length=1	System.Int
[0]	179440	System.Int

- Set the length in ListElements according to the number of elements, i.e. the code that you would like to search for. This value is set in the data mapping from the *Govern System Configuration Administrator (SCA)*.

Name	Value
objParamAuthentication	MSGovern.WCFServicePC.DataCo
Department	(null)
UserID	govem
UserPassword	govem
objParamGetElement	MSGovern.WCFServicePC.DataCo
ListElements	length=1
[0]	(null)
ListParcelID	length=1
[0]	179440

- Click on ListElements; in the drop down menu select the required object type.

objParamGetElement	MSGovern.WCFServicePC.DataContracts.I	M
ListElements	length=1	M
[0]	cts.DC.MSGovern.ParamElementBase	M
ListConditions	length=0	M
Name	(null)	S ₃
Value	(null)	S ₃
ListParcelID	length=1	S ₃
[0]	179440	S ₃

6. Enter the element code in the Name field

objParamGetElement	MSGovern.WCFServicePC.Da
ListElements	length=1
[0]	MSGovern.WCFServicePC.Da
ListConditions	length=0
Name	mabldg1
Value	(null)
ListParcelID	length=1
[0]	179440

7. Set the length value in ListConditions depending on the number of conditions you would like to add in your search.

objParamGetElement	MSGovern.WCFServicePC.DataContracts.I
ListElements	length=1
[0]	MSGovern.WCFServicePC.DataContracts.I
ListConditions	length=2
[0]	(null)
[1]	(null)
Name	mabldg1
Value	(null)

8. Select the required type in the drop down menu.

ListConditions	length=2	MSGove
[0]	MSGovern.WCFServicePC.DataContracts.DC_MSGover	MSGove
ConditionOperator	Equal	MSGove
ColumnMaxWidth	0	System.I
ColumnName	(null)	System.5
ColumnType	None	MSGove
ColumnValue	(null)	System.5
TableName	(null)	System.5
[1]	MSGovern.WCFServicePC.DataContracts.DC_MSGover	MSGove
ConditionOperator	Equal	MSGove
ColumnMaxWidth	0	System.I
ColumnName	(null)	System.5
ColumnType	None	MSGove
ColumnValue	(null)	System.5
TableName	(null)	System.5
Name	mabldg1	System.5
Value	(null)	System.5

9. Enter ColumnName, ConditionOperator and ColumnValue; note that...

- ColumnValue: In order to be able to search for a null value in the database, this value can be set as null.
- ConditionOperator: The default operator is EQUAL TO (=)

10. Click on the Invoke button; three (3) records will be returned.

Response			<input type="checkbox"/> Start a new proxy	Invoke
Name	Value	Type		
▲ (return)	length=3	MSGovern.WCFServicePC.DataContracts.DC_MSGover		
▲ [0]		MSGovern.WCFServicePC.DataContracts.DC_MSGover		
ElementName	"mabldg1"	System.String		
FieldName	"YEAR_BUILT"	System.String		
FieldType	DecimalType	MSGovern.WCFServicePC.DataContracts.MSGovern_C		
FieldValue	"2000"	System.String		
Frozen_ID	0	System.Int32		
P_ID	179440	System.Int32		
Ref_ID	2000007	System.Int32		
Ref_Sequence	1	System.Int32		
Year_ID	2011	System.Int32		
▲ [1]		MSGovern.WCFServicePC.DataContracts.DC_MSGover		
ElementName	"mabldg1"	System.String		
FieldName	"YEAR_BUILT"	System.String		
FieldType	DecimalType	MSGovern.WCFServicePC.DataContracts.MSGovern_C		
FieldValue	"9999"	System.String		
Frozen_ID	0	System.Int32		
P_ID	179440	System.Int32		
Ref_ID	2000007	System.Int32		
Ref_Sequence	2	System.Int32		
Year_ID	2011	System.Int32		
▲ [2]		MSGovern.WCFServicePC.DataContracts.DC_MSGover		
ElementName	"mabldg1"	System.String		

NOTE: You do not need to provide a condition in `ListConditions` when you want to search all records in the database.

The Name of `objParamGetElement` must exist in the `USR_DATA_MAPPING` table; this can be set up in the SCA.

Set Element Value (Update)

To test the Set Element Value method...

In the WCF Test Client...

1. Double click on `MSGovern_SetElementValue`
2. Set user ID and password in `objParamAuthentication`.

MSGovern_SetElementValue	
Request	
Name	Value
▲ objParamAuthentication	MSGovern.WCFServicePC.DataContracts.DC_MSGover
Department	(null)
UserID	govem
UserPassword	govem
▲ objParamSetElement	MSGovern.WCFServicePC.DataContracts.DC_MSGover
ListElements	length=0
ListParcelID	length=0

In the `objParamGetElement`, set the following:

3. Set length=1 in ListParcel and set the p_id.

Name	Value	Type
objParamAuthentication	MSGovern.WCFServicePC.DataContracts.I	MSGovern
Department	(null)	System.St
UserID	govem	System.St
UserPassword	govem	System.St
objParamGetElement	MSGovern.WCFServicePC.DataContracts.I	MSGovern
ListElements	length=0	MSGovern
ListParcelID	length=1	System.Int
[0]	179440	System.Int

4. Set the length in ListElements according to the number of elements, i.e. the code that you would like to search for. This value is set in the data mapping from the *Govern System Configuration Administrator (SCA)*.

Name	Value
objParamAuthentication	MSGovern.WCFServicePC.DataCo
Department	(null)
UserID	govem
UserPassword	govem
objParamGetElement	MSGovern.WCFServicePC.DataCo
ListElements	length=1
[0]	(null)
ListParcelID	length=1
[0]	179440

5. Click on ListElements; in the drop down menu select the required object type.

objParamGetElement	MSGovern.WCFServicePC.DataContracts.I	M
ListElements	length=1	M
[0]	cts.DC_MSGovern_ParamElementBase	M
ListConditions	length=0	M
Name	(null)	S ₃
Value	(null)	S ₃
ListParcelID	length=1	S ₃
[0]	179440	S ₃

6. Enter the element code in the Name field

objParamGetElement	MSGovern.WCFServicePC.Da
ListElements	length=1
[0]	MSGovern.WCFServicePC.Da
ListConditions	length=0
Name	mabldg1
Value	(null)
ListParcelID	length=1
[0]	179440

7. Enter the element value to be set in the database.

▲ [0]	MSGovern.WCFServicePC.DataContr
Element Type	Update
ListConditions	length=0
Name	mabldg1
Value	9999
▲ ListParcelID	length=1
[0]	179440

8. Make sure the ElementType is set to Update.

▲ [0]	MSGovern.WCFServicePC.DataContracts.DC_MSGover
Element Type	Update

9. Depending on the number of conditions you want to add in your search, set the length under the ListConditions.

▲ ListConditions	length=1	MSGovern.WCF
▲ [0]	MSGovern.WCFServicePC.DataContracts.DC_MSGover	MSGovern.WCF
ConditionOperator	Equal	MSGovern.WCF
ColumnMaxWidth	0	System.Int32
ColumnName	year_id	System.String
ColumnType	None	MSGovern.WCF
ColumnValue	2010	System.String
TableName	(null)	System.String
Name	mabldg1	System.String

10. Click **Invoke**; the record will be updated in the database.

Response			<input type="checkbox"/> Start a new proxy	Invoke
Name	Value	Type		
(return)	True	System.Boolean		

NOTE:

When you want to search all records in the database. You do not need to provide a condition in ListConditions.

The Name of objParamGetElement must exist in the USR_DATA_MAPPING table; this can be set up in the SCA.

Set Element Value (Insert)

To test the Set Element Value method...

- Repeat steps 1, and 3-7 from Set Element Value (Update)
- Select ElementType is Insert

▲ [0]	MSGovern.WCFServicePC.DataContracts.DC_MSGover	MSGov
Element Type	Insert	MSGov

- Set length in ListConditions depending on the number of condition you want to add in your search. All the objects added in this list will be inserting in the record. You will need to add all the primary keys in this list.

▲ ListConditions	length=1	MSGovern.WCF
▲ [0]	MSGovern.WCFServicePC.DataContracts.DC_MSGover	MSGovern.WCF
ConditionOperator	Equal	MSGovern.WCF
ColumnMaxWidth	0	System.Int32
ColumnName	year id	System.String
ColumnType	None	MSGovern.WCF
ColumnValue	2010	System.String
TableName	(null)	System.String
Name	mahldn1	System.String

- Click **Invoke**; the record will be inserted in the database.

Response			<input type="checkbox"/> Start a new proxy	Invoke
Name	Value	Type		
(return)	True	System.Boolean		

NOTE: If a table has primary keys and you want to insert more values in the database, you will need to provide a condition in ListConditions.

The Name of objParamGetElement must exist in the USR_DATA_MAPPING table; this can be set up in the SCA.

You can use the MsGovern_GetTableColumns method to retrieve all fields from the given table which can then be added in the ListConditions.

Get Table Column

To test the Get Table Column method...

- Enter the User ID, Password, and Table Name

MSGovern_GetTableColumns		
Request		
Name	Value	Type
objParamAuthentication	MSGovern.WCFServicePC.DataContracts.DC_MSGover	MS
Department	(null)	Sy
UserID	govem	Sy
UserPassword	govem	Sy
strTableName	pc_parcel	Sy

2. Click **Invoke**.

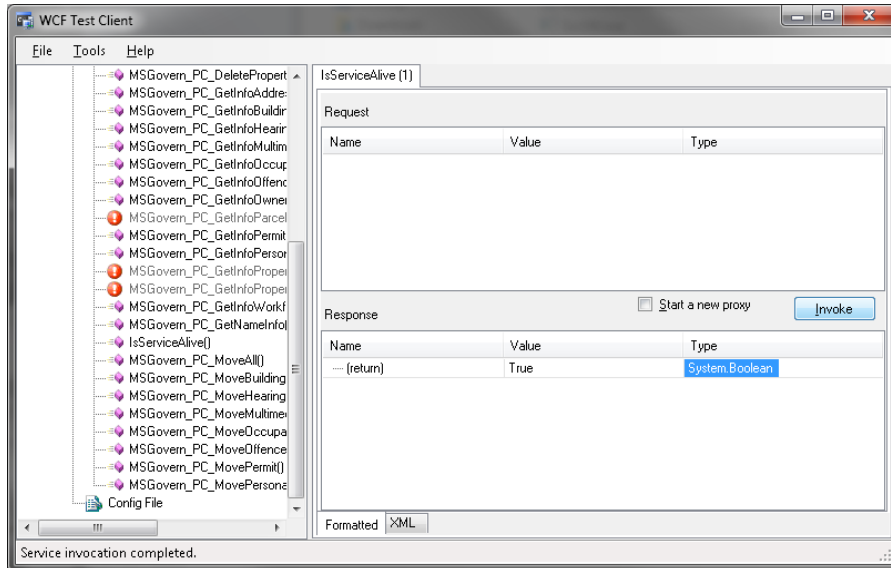
Response			<input type="checkbox"/> Start a new proxy		Invoke
Name	Value	Type			
▲ (return)	length=33	MSGovern.WCFServicePC.DataContracts.DC_MSGover			
▲ [0]		MSGovern.WCFServicePC.DataContracts.DC_MSGover			
ColumnMaxWidth	22	System.Int32			
ColumnName	"approved_subd"	System.String			
ColumnType	DecimalType	MSGovern.WCFServicePC.DataContracts.MSGovern_C			
ColumnValue	(null)	NullObject			
TableName	"pc_parcel"	System.String			
▲ [1]		MSGovern.WCFServicePC.DataContracts.DC_MSGover			
ColumnMaxWidth	15	System.Int32			
ColumnName	"bare_land"	System.String			
ColumnType	StringType	MSGovern.WCFServicePC.DataContracts.MSGovern_C			
ColumnValue	(null)	NullObject			
TableName	"pc_parcel"	System.String			
▲ [2]		MSGovern.WCFServicePC.DataContracts.DC_MSGover			
ColumnMaxWidth	7	System.Int32			
ColumnName	"effective_date"	System.String			
ColumnType	DatetimeType	MSGovern.WCFServicePC.DataContracts.MSGovern_C			
ColumnValue	(null)	NullObject			
TableName	"pc_parcel"	System.String			
▲ [3]		MSGovern.WCFServicePC.DataContracts.DC_MSGover			
ColumnMaxWidth	22	System.Int32			
ColumnName	"effective_year"	System.String			
Column Type	DecimalType	MSGovern.WCFServicePC.DataContracts.MSGovern_C			

TROUBLE SHOOTING

Connections

In instances when there are issues with the connection, there is a method within the service that can be used to assist in trouble shooting.

1. In the WCF Test Client, double click to select the **IsServiceAlive()** method.
2. Click **Invoke**.



The *IsServiceAlive()* method will test the validity of the connection key and the connection to the database. When the connection is successful, the method will return as **TRUE**. If the service fails, make a note of the error message and verify the validity of your connection key and your connection to the database. The error message that is recorded can assist in the resolution process should the problem need to be escalated.