



MS Govern Property Control System Service API

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MS Govern
Property Control System Service API
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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.

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I. 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.

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Property Control System Service API

Issue Date	Version	Details	Author
February 20, 2009	1.0 (Draft)	API description of the property control system service Note: This is a draft and none of the methods are currently implemented yet. Please use this document with the understanding that it will surely change while we implement the service.	Francis Collette
March 10, 2009	1.1 (Draft)	Add data contracts: DC_MSGovern_Permit DC_MS_Govern_PersonalProperty Different corrections.	Francis Collette
March 11, 2009	1.2 (Draft)	Change all the service contracts with optional parameters and add new data contracts: DC_MSGovern_ParamGetInfoBase, DC_MSGovern_ParamGetInfoOccupant, DC_MSGovern_ParamGetInfoOwner, DC_MSGovern_ParamGetInfoPersonalProperty, DC_MSGovern_ParamMoveBase, DC_MSGovern_ParamMoveBuilding, DC_MSGovern_ParamMoveHearing, DC_MSGovern_ParamMoveMultimediaDocument, DC_MSGovern_ParamMoveOccupant, DC_MSGovern_ParamMoveOffence, DC_MSGovern_ParamMoveOwner DC_MSGovern_ParamMovePermit, DC_MSGovern_ParamMovepersonalProperty, DC_MSGovern_ParamMoveWorkflow, DC_MSGovern_ParamSplitMerge and DC_MSGovern_ParamUpdateParcelAddress.	Kar Wing Tam
March 11, 2009	1.3 (Draft)	Modify some data contracts	Kar Wing Tam
May 14, 2009	1.4	Modify method parameters: MSGovern_PC_GetInfoAddress MSGovern_PC_GetInfoBuilding MSGovern_PC_GetInfoHearing MSGovern_PC_GetInfoMultimediaDocument MSGovern_PC_GetInfoOffence MSGovern_PC_GetInfoParcel MSGovern_PC_GetInfoPermit MSGovern_PC_GetInfoPersonalProperty MSGovern_PC_GetInfoWorkflow MSGovern_PC_UpdateParcelAddress Remove method MSGovern_PC_MoveOwner	Francis Collette

Issue Date	Version	Details	Author
May 14 th , 2009	1.4	Add methods: MSGovern_PC_UpdateParcelOwner MSGovern_PC_UpdatePropertyArea MSGovern_PC_UpdatePropertyLegalInfo Add data contracts: DC_MSGovern_PropertyArea DC_MSGovern_PropertyLegalInfo DC_MSGovern_UserColumn Add Enum: MSGovern_Column_Type	Francis Collette
May 20 th , 2009	1.5	Add methods: MSGovern_PC_GetInfoPropertyArea MSGovern_PC_GetInfoPropertyLegalInfo Add data contracts: DC_MSGovern_ParamGetInfoPropertyArea DC_MSGovern_ParamGetInfoPropertyLegalInfo	Kar Wing Tam
June 17 th , 2009	1.6	Modify data contracts: DC_MSGovern_ParamGetInfoPersonalProperty	Kar Wing Tam
September 29 th , 2009	1.7	Modify data contracts: DC_MSGovern_ParcelAddress Create data contracts: MSGovern_EN_Creation_Type	Kar Wing Tam
October 1 st , 2009	1.8	Modify data contracts: DC_MSGovern_ParcelAddress	Kar Wing Tam
October 8 th , 2009	1.9	Modify the following service contracts: Function MSGovern_PC_UpdateParcelAddress Function MSGovern_PC_UpdatePropertyArea Function MSGovern_PC_UpdatePropertyLegalInfo	Francis Collette
October 15 th , 2009	2.0	Modify data contracts by adding a department parameter: DC_MSGovern_ParamGetInfoBase DC_MSGovern_ParamMoveBase DC_MSGovern_ParamSplitMerge Modify the following service contracts : Function MSGovern_PC_UpdateParcelAddress Function MSGovern_PC_UpdatePropertyArea Function MSGovern_PC_UpdatePropertyLegalInfo	Kar Wing Tam
October 16 th , 2009	2.1	Add method: MSGovern_PC_DeletePropertyArea	Francis Collette

Issue Date	Version	Details	Author
October 21 st , 2009	2.2	Add comments on the following service contracts: Function MSGovern_PC_UpdatePropertyArea Function MSGovern_PC_UpdatePropertyLegalInfo	Kar Wing Tam
October 22 nd , 2009	2.3	Add comments on the following service: Function MSGovern_PC_DeletePropertyArea	Kar Wing Tam
January 15 th , 2010	2.4	Add comments on the following service: Function MSGovern_PC_SplitMerge Add methods: Function MSGovern_PC_UpdateParcel Modify data contracts: DC_MSGovern_Parcel	Kar Wing Tam
December 2 nd , 2010	2.5	Add data contracts: DC_MSGovern_GIS_Object DC_MSGovern_LinkParcelGIS DC_MSGovern_MultipleTextResource DC_MSGovern_ParcelLink DC_MSGovern_ParcelLink_Type DC_MSGovern_TextResource Add methods: MSGovern_PC_CreateGIS_Object MSGovern_PC_CreateLinkBetweenParcelAndGIS MSGovern_PC_CreateParcelLink MSGovern_PC_CreateParcelLinkType MSGovern_PC_DeleteGIS_Object MSGovern_PC_DeleteLinkBetweenParcelAndGIS MSGovern_PC_DeleteParcelLink MSGovern_PC_DeleteParcelLinkType MSGovern_PC_UpdateLinkBetweenParcelAndGIS MSGovern_SY_GetSingleTextResource MSGovern_SY_GetMultipleTextResources Modify data contract: DC_MSGovern_ParamSplitMerge	Francis Collette
October 19, 2011	2.6	Add data contracts: DC_MSGovern_DataMappingElement DC_MSGovern_UpdateConditionElement Add methods: MSGovern_GetElementValue MSGovern_SetElementValue MSGovern_PC_GeneralDataMappingUpdate	Liao Wei
December 14, 2011	2.7	Available in version 4.7.1 and up Add data contracts: DC_MSGovern_ParamParcel Add methods: MSGovern_PC_GetListParcelIDs	Kar Wing Tam

February 1 st , 2012	2.8	Available in version 4.7.3 and up Modify methods: MSGovern_PC_GetListParcelIDs (Add authentication) MSGovern_GetElementValue (Use object instead of XML file) MSGovern_SetElementValue (Use object instead of XML file) Add method: MSGovern_GetTableColumns Add data contract: DC_MSGovern_ParamElementCondition DC_MSGovern_ParamElementBase DC_MSGovern_ParamUpdateInsertElement DC_MSGovern_ParamGetElement DC_MSGovern_ParamSetElement DC_MSGovern_ElementResult Add enum: MSGovern_ElementType MSGovern_ConditionOperator	Kar Wing Tam
February 3 rd , 2012	2.9	Available in version 4.7.3 and up Add data contract: DC_MSGovern_ColumnDetail	Kar Wing Tam
June 7, 2012	3.0	Add methods: MSGovern_GetElementsDetails MSGovern_GetElementDetailVT Add data contract: DC_MSGovern_ColumnDetail DC_MSGovern_ElementDetailVT DC_MSGovern_ElementAcceptableValue	Kar Wing Tam
July 24, 2012	3.1	Add Methods: MSGovern_GetNamesetForUser GIS_GetGisIdForNameset GIS_SetNamesetWithGisIds GIS_GetGisIdDescription GIS_InitializeSplitmergeTransaction Add data contract: DC_GIS_GetGisIdResults DC_GIS_SplitMergeSource DC_GIS_SplitMergeDestination	Benoît Lauzon
November 11, 2012	3.2	Update: DC_MSGovern_ElementDetail Add: Required value for Data mapping element	Kar Wing Tam
March 5, 2013	3.4	Update Methods: MSGovern_GetNamesetForUser GIS_GetGisIdForNameset GIS_SetNamesetWithGisIds GIS_GetGisIdDescription GIS_InitializeSplitMergeTransaction Add data contract: DC_GIS_Key DC_GIS_GisDescription Update data contract: DC_GIS_Key	Kar Wing Tam

		DC_GIS_GetGisIdResults DC_GIS_SplitMergeSource DC_GIS_SplitMergeDestination DC_GIS_GisDescription	
April 5, 2013	3.5	Update data contract: Change feature ID to layer name	Kar Wing Tam
April 19, 2013	3.6	Add method: GIS_GetParcelAttributes (in mockup only) Add data contract: DC_MSGovern_ParcelAttribute	Kar Wing Tam
April 22, 2013	3.7	Update method: GIS_GetGisIdDescription GIS_InitializaSplitMergeTransaction Update data contract: DC_GIS_SplitMergeDestination DC_GIS_GisDescription	Kar Wing Tam

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Introduction

This document describes the API of MSGovern Property Control System Service.

II. List of Operations and their Descriptions

The following table contains the list of methods available:

Name	Description
MSGovern_PC_CreateGIS_Object	This method will allow the creation of an entry into the PC_GIS_FEATURES table
MSGovern_PC_CreateLinkBetweenParcelAndGIS	Method will allow the creation of an entry into the PC_LK_PARCEL_GIS table
MSGovern_PC_CreateParcelLink	This method will allow the creation of an entry into the PC_PARCEL_LINKS table
MSGovern_PC_CreateParcelLinkType	Method will allow the creation of an entry into the PC_PARCEL_LK_TYPE
MSGovern_PC_DeleteGIS_Object	This method will allow the deletion of an entry from the PC_GIS_FEATURES table
MSGovern_PC_DeleteLinkBetweenParcelAndGIS	Method will allow the deletion of an entry from the PC_LK_PARCEL_GIS table
MSGovern_PC_DeleteParcelLink	This method will allow the deletion of an entry from the PC_PARCEL_LINKS table
MSGovern_PC_DeleteParcelLinkType	Method will allow the deletion of an entry from the PC_PARCEL_LK_TYPE table
MSGovern_PC_DeletePropertyArea	This method allows the deletion of records from the PC_AREA table. This method returns an integer representing the number of deleted records.
MSGovern_PC_GeneralDataMappingUpdate	Method updates the database accordingly with, the column name and value. Method return a Boolean to indicate update is successful or not.
MSGovern_PC_GetInfoAddress	This method returns information on the address of a given property. Method returns a collection of address objects.
MSGovern_PC_GetInfoBuilding	Method returns information on the buildings of a given property. This method returns a collection of building objects.
MSGovern_PC_GetInfoHearing	This method returns information on the hearings relating to a given property. Method returns a collection of hearing objects.
MSGovern_PC_GetInfoMultimediaDocument	Method returns information on the multimedia documents relating to a given property. This method returns a collection of document objects.
MSGovern_PC_GetInfoOccupant	This method returns information on the occupant(s) relating to a given property. Method returns a collection of occupant objects.
MSGovern_PC_GetInfoOffence	Method returns information on the offences relating to a given property. This method returns a collection of offence objects.
MSGovern_PC_GetInfoOwner	This method returns information on the owner(s) relating to a given property. Method returns a collection of owner objects.
MSGovern_PC_GetInfoParcel	Method returns information on a given property. This method returns a parcel object.
MSGovern_PC_GetInfoPermit	Method returns information on the permits relating

	to a given property. This method returns a collection of permit objects.
--	--

MSGovern_PC_GetInfoPersonalProperty	This method returns information on the personal properties relating to a given property. Method returns a collection of <u>personal property objects</u> .
MSGovern_PC_GetInfoPropertyArea	Method returns information on the property area relating to a given property. This method returns a collection of <u>property area objects</u> .
MSGovern_PC_GetInfoPropertyLegalInfo	This method returns information on the legal info relating to a given property. Method returns a collection of <u>legal info objects</u> .
MSGovern_PC_GetInfoWorkflow	Method returns information on the workflows relating to a given property. This method returns a collection of <u>workflow objects</u> .
MSGovern_PC_IsServiceAlive	Checks if the service is still available.
MSGovern_PC_MoveAll	This method allows moving information relating to a given property, to another property. Method calls MSGovern_PC_MoveBuilding, MSGovern_PC_MoveHearing, MSGovern_PC_MoveOccupant, MSGovern_PC_MoveOffence, MSGovern_PC_MoveMultimediaDocument, MSGovern_PC_MovePermit, MSGovern_PC_MovePersonalProperty and MSGovern_PC_MoveWorkflow. This method returns TRUE on success, FALSE otherwise.
MSGovern_PC_MoveBuilding	Method allows moving one particular building or all buildings relating to a given property to another one. This method returns TRUE on success, FALSE otherwise.
MSGovern_PC_MoveHearing	This method allows moving one specific hearing or all hearings relating to a given property to another one. This method returns TRUE on success, FALSE otherwise.
MsGovern_PC_MoveMultimediaDocument	Method allows moving one particular multimedia document or all multimedia documents relating to a given property to another one. This method returns TRUE on success, FALSE otherwise.
MsGovern_PC_MoveOccupant	This method allows moving one particular occupant or all occupants relating to a given property to another one. This method returns TRUE on success, FALSE otherwise.
MsGovern_PC_MoveOffence	Method allows moving one particular offence or all offences relating to a given property to another one. This method returns TRUE on success, FALSE otherwise.
MSGovern_PC_MovePermit	This method allows moving one particular permit or all permits relating to a given property to another one. Method returns True on success, False otherwise.
MSGovern_PC_MovePersonalProperty	Method allows moving one particular personal property or all personal properties relating to a given property to another one. This method returns TRUE on success, FALSE otherwise.
MSGovern_PC_MoveWorkflow	This method allows moving one particular workflow, workflows of a specific type or all workflows relating to a given property to another one. Method returns TRUE on success, FALSE otherwise.

	otherwise.
MSGovern_PC_SplitMerge	Method initiates a split or a merge process into the MSGovern database and returns a collection of (perhaps newly created) parcel objects with their respective parcel ID (P_ID).
MSGovern_PC_UpdateLinkBetweenParcelAndGIS	This method allows the update of an entry from the PC_LK_PARCEL_GIS table.
MSGovern_PC_UpdateParcelAddress	Method allows inserting/updating one of the addresses of a given property. This method returns TRUE on success, FALSE otherwise.
MsGovern_PC_UpdateParcelOwner	This method allows inserting/updating one specific owner relating to a given property. Method returns TRUE on success, FALSE otherwise.
MsGovern_PC_UpdatePropertyArea	Method allows inserting/updating records into the PC_AREA table for a given property. This method returns True on success, False otherwise.
MsGovern_PC_UpdatePropertyLegalInfo	This method allows inserting/updating records into the PC_LEGAL_INFO table for a given property. Method returns TRUE on success, FALSE otherwise.
MsGovern_SY_GetSingleTextResource	Method to get a single text resource from MS Govern resource files.
MsGovern_SY_GetMultipleTextResources	This method gets multiple text resources from MS Govern resource files.
MSGovern_GetElementValue	Method to retrieve values from a database according to the element names predefined in the USR_DATA_MAPPING table. This method returns a collection of element results.
MSGovern_SetElementValue	This method will update a specific field with the given value using the element name in the USR_DATA_MAPPING table, or insert a new record using the element name in the USR_DATA_MAPPING table and the list of inserted element column with the specific given value.
MSGovern_GetTablerColumns	This method will retrieve all the columns of a given table from the database. This method returns a collection of column results.
MSGovern_GetNamesetForUser	
GIS_GetGisIdForNameset	
GIS_SetNamesetWithGisIds	
GIS_GetGisIdDescription	
GIS_InitializeSplitmergeTransaction	

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

III. Service contract

Property Control service implements the following contract:

```
Public Interface IPropertyControlService
```

- 1) **Function** MSGovern_PC_CreateGIS_Object (
 ByVal objGIS_Object As DC_MSGovern_GIS_Object) As Integer

NOTE: The integer returned by this method is the newly created **GIS_RECORD_ID** in table **PC_GIS_FEATURES**.

- 2) **Function** MSGovern_PC_CreateLinkBetweenParcelAndGisObject (
 ByVal objLinkParcelGIS As DC_MSGovern_LinkParcelGIS) As Integer
- 3) **Function** MSGovern_PC_CreateParcelLink (
 ByVal objParcelLink As DC_MSGovern_ParcelLink) As Integer
- 4) **Function** MSGovern_PC_CreateParcelLinkType (
 ByVal objParcelLinkType As DC_MSGovern_ParcelLinkType) As Integer
- 5) **Function** MSGovern_PC_DeleteGIS_Object (
 ByVal objGIS_Object As DC_MSGovern_GIS_Object) As Integer
- 6) **Function** MSGovern_PC_DeleteLinkBetweenParcelAndGisObject (
 ByVal objLinkParcelGIS As DC_MSGovern_LinkParcelGIS) As Integer
- 7) **Function** MSGovern_PC_DeleteParcelLink (
 ByVal objParcelLink As DC_MSGovern_ParcelLink) As Integer
- 8) **Function** MSGovern_PC_DeleteParcelLinkType (
 ByVal objParcelLinkType As DC_MSGovern_ParcelLinkType) As Integer
- 9) **Function** MSGovern_PC_DeletePropertyArea (
 ByVal objParamGetInfoPropertyArea As
 DC_MSGovern_ParamGetInfoPropertyArea) As Integer

October 22nd 2009

The caller will need to provide a valid parcel id, area sequence, year id and a frozen id of 0 to be able to delete a property area. We only allow the caller to delete records with frozen id's that are equal to 0. If the caller passes a frozen id other than 0, an exception is thrown.

- 10) **Function** MSGovern_PC_GeneralDataMappingUpdate (
 ByVal objUpdateElement As DC_MSGovern_DataMappingElement,
 ByVal intParcel_ID As Integer,
 ByVal strTaxMapUFMT As String,
 ByVal lstCondition As List(of DC_MSGovern_UpdateConditionElement)) As
Boolean

On October 19nd 2011

The caller should use the Datamapping Editor to predefine the datamap (Editor can be found in the System Config Admin (SCA) application – formerly call GNA). If the datamap can't be found, an

exception will be thrown. If the parcel id does not exist in the database, an exception will also be thrown.

NOTE: We now only allow the caller to update three tables in the *Property Control* section:

PC_AREA
PC_PARCEL
PC_LEGAL_INFO

- 11) **Function** `MSGovern_PC_GetInfoAddress (`
 `ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase)`
 `As List(Of DC_MSGovern_ParcelAddress)`
- 12) **Function** `MSGovern_PC_GetInfoBuilding (`
 `ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase)`
 `As List(Of DC_MSGovern_Building)`
- 13) **Function** `MSGovern_PC_GetInfoHearing (`
 `ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase)`
 `As List(Of DC_MSGovern_Hearing)`
- 14) **Function** `MSGovern_PC_GetInfoMultimediaDocument (`
 `ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase)`
 `As List(Of DC_MSGovern_Document)`
- 15) **Function** `MSGovern_PC_GetInfoOccupant (`
 `ByVal objParamGetInfoOccupant As DC_MSGovern_ParamGetInfoOccupant)`
 `As List(Of DC_MSGovern_Occupant)`
- 16) **Function** `MSGovern_PC_GetInfoOffence (`
 `ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase)`
 `As List(Of DC_MSGovern_Offence)`
- 17) **Function** `MSGovern_PC_GetInfoOwner (`
 `ByVal objParamGetInfoOwner As DC_MSGovern_ParamGetInfoOwner)`
 `As List(Of DC_MSGovern_Owner)`
- 18) **Function** `MSGovern_PC_GetInfoParcel (`
 `ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase) As`
 `DC_MSGovern_Parcel`
- 19) **Function** `MSGovern_PC_GetInfoPermit (`
 `ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase)`
 `As List(Of DC_MSGovern_Permit)`
- 20) **Function** `MSGovern_PC_GetInfoPersonalProperty (`
 `ByVal objParamGetInfoPersonalProperty As`
 `DC_MSGovern_ParamGetInfoPersonalProperty)`
 `As List(Of DC_MSGovern_PersonalProperty)`
- 21) **Function** `MSGovern_PC_GetInfoPropertyArea (`
 `ByVal objParamGetInfoPropertyArea As`
 `DC_MSGovern_ParamGetInfoPropertyArea) As List(Of`
 `DC_MSGovern_PropertyArea)`
- 22) **Function** `MSGovern_PC_GetInfoPropertyLegalInfo (`
 `ByVal objParamGetInfoPropertyLegalInfo As`
 `DC_MSGovern_ParamGetInfoPropertyLegalInfo)`

- ```

 As List(Of DC_MSGovern_PropertyLegalInfo)

23) Function MSGovern_PC_GetInfoWorkflow(
 ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase)
 As List(Of DC_MSGovern_Workflow)

24) Function IsServiceAlive() As Boolean

25) Function MSGovern_PC_MoveAll(
 ByVal objMoveMultimediaDocument As DC_MSGovern_ParamMoveAll) As
 Boolean

26) Function MSGovern_PC_MoveBuilding(
 ByVal objParamMoveBuilding As DC_MSGovern_ParamMoveBuilding) As
 Boolean

27) Function MSGovern_PC_MoveHearing(
 ByVal objParamMoveHearing As DC_MSGovern_ParamMoveHearing) As Boolean

28) Function MSGovern_PC_MoveMultimediaDocument(
 ByVal objMoveMultimediaDocument As
 DC_MSGovern_ParamMoveMultimediaDocument) As Boolean

29) Function MSGovern_PC_MoveOccupant(
 ByVal objParamMoveOccupant As DC_MSGovern_ParamMoveOccupant) As
 Boolean

30) Function MSGovern_PC_MoveOffence(
 ByVal objParamMoveOffence As DC_MSGovern_ParamMoveOffence) As Boolean

31) Function MSGovern_PC_MovePermit(
 ByVal objParamMovePermit As DC_MSGovern_ParamMovePermit) As Boolean

32) Function MSGovern_PC_MovePersonalProperty(
 ByVal objParamMovePersonalProperty As
 DC_MSGovern_ParamMovePersonalProperty) As Boolean

33) Function MSGovern_PC_MoveWorkflow(
 ByVal objParamMoveWorkflow As DC_MSGovern_ParamMoveWorkflow) As
 Boolean

34) Function MSGovern_PC_SplitMerge(
 ByVal objParamSplitMerge As DC_MSGovern_ParamSplitMerge) As
 DC_MSGovern_SplitMerge

```

The object `DC_MSGovern_SplitMerge` returned by this method contains the *Split/Merge/Remap* (SMR) number and the list of the destination parcels which will have the new Govern parcel IDs, (if parcels were created by the *Split/Merge/Remap* process).

#### On January 15<sup>th</sup> 2010

The caller can update all added columns when creating new parcels using the *Split/Merge/Remap* method if the duplicate parcel id is not provided. However, it is not possible to update any columns from an existing parcel in the *Split/Merge/Remap* method. You will need to call the `MSGovern_PC_UpdateParcel` service to modify an existing parcel.



**Example:**

```

''' <summary>
''' Execute split merge.
''' </summary>
''' <param name="sender"></param>
''' <param name="e"></param>
''' <remarks></remarks>
Private Sub ExecuteSplitMerge()

 Dim lstDestinationParcels As List(Of MyService.DC_MSGovern_Parcel) =
 GenerateNewParcelIdCollection()

 SetParcelsDescription(lstDestinationParcels)

 Dim intSplitMergeNumber As Integer = CreateSplitMerge(lstDestinationParcels)

End Sub

''' <summary>
''' Generate only a collection of parcels with new p_ids.
''' </summary>
''' <returns>List of parcels with new p_id</returns>
''' <remarks></remarks>
Private Function GenerateNewParcelIdCollection() As List(Of MyService.DC_MSGovern_Parcel)

 ' Create service client
 Dim objServiceClient As MyService.PropertyControlServiceClient =
 New MyService.PropertyControlServiceClient("HttpEndPoint")

 ' Create get parcel info parameter
 Dim objParamGetParcelInfo As New MyService.DC_MSGovern_ParamGetInfoBase
 objParamGetParcelInfo.UserID = "govern"
 objParamGetParcelInfo.UserPassword = "govern"
 objParamGetParcelInfo.ParcelID = 71954

 ' Get existing parcel with the given p_id from the DB
 Dim objSourceParcel As MyService.DC_MSGovern_Parcel =
 objServiceClient.MSGovern_PC_GetInfoParcel(objParamGetParcelInfo)

 ' Add existing parcel in the list of SOURCE parcel
 ' (can add more than 1 parcel in the list of source parcel)
 Dim lstSourceParcel As New List(Of MyService.DC_MSGovern_Parcel)
 lstSourceParcel.Add(objSourceParcel)

 ' Create split merge parameter
 Dim objParamSplitMerge As New MyService.DC_MSGovern_ParamSplitMerge
 objParamSplitMerge.UserID = "govern" ' Username from DB
 objParamSplitMerge.UserPassword = "govern" ' Password from DB
 objParamSplitMerge.YearOfSplitMerge = 2011 ' Year of the split merge
 objParamSplitMerge.NumberCreatedParcel = 3 ' Number of created destination parcels

 ' Set to False when copied and True when moved
 objParamSplitMerge.SourceParcelsStayAliveFlag = False

 ' Department for the split merge
 objParamSplitMerge.Department = "03"

 ' List of source parcels
 objParamSplitMerge.CollectionSourceParcel = lstSourceParcel

 ' Duplicate data using given p_id for all the destination pc
 objParamSplitMerge.DuplicateParcelID = 71954

 ' Generate parcels ID only (parcels are not created in the DB)
 objParamSplitMerge.CreationType = MyService.MSGovern_Creation_Type.GenerateParcelID

```

```

' Generate collection of destination parcel with new p_ids (No parcel created in DB)
Dim objSplitMerge As MyService.DC_MSGovern_SplitMerge =
 objServiceClient.MSGovern_PC_SplitMerge(objParamSplitMerge)

' Close service client
objServiceClient.Close()

' Return the destination parcels collection
Return objSplitMerge.ParcelCollection

End Function

''' <summary>
''' Set parcels descriptions.
''' </summary>
''' <param name="lstDestinationParcels"></param>
''' <remarks></remarks>
Private Sub SetParcelsDescription(ByRef lstDestinationParcels As
 List(Of MyService.DC_MSGovern_Parcel))

 For Each objDestinationParcel As MyService.DC_MSGovern_Parcel In lstDestinationParcels
 ' Set all the info for the destination parcels
 objDestinationParcel.TaxMapNumber = "999" & objDestinationParcel.ParcelID
 objDestinationParcel.EffectiveYear = 2011
 objDestinationParcel.EffectiveDate = Date.Now
 objDestinationParcel.InactiveYear = 9999
 Next

End Sub

''' <summary>
''' Create new split merge records in pc_genealogy.
''' </summary>
''' <param name="lstDestinationParcels"></param>
''' <returns></returns>
''' <remarks></remarks>
Private Function CreateSplitMerge(lstDestinationParcels As
 List(Of MyService.DC_MSGovern_Parcel)) As Integer

 ' Create service client
 Dim objServiceClient As MyService.PropertyControlServiceClient =
 New MyService.PropertyControlServiceClient("HttpEndPoint")

 ' Create get parcel info parameter
 Dim objParamGetParcelInfo As New MyService.DC_MSGovern_ParamGetInfoBase
 objParamGetParcelInfo.UserID = "govern"
 objParamGetParcelInfo.UserPassword = "govern"
 objParamGetParcelInfo.ParcelID = 71954

 ' Get existing parcel with the given p_id from the DB
 Dim objSourceParcel As MyService.DC_MSGovern_Parcel =
 objServiceClient.MSGovern_PC_GetInfoParcel(objParamGetParcelInfo)

 ' Add existing parcel in the list of SOURCE parcel
 ' (can add more than 1 parcel in the list of source parcel)
 Dim lstSourceParcel As New List(Of MyService.DC_MSGovern_Parcel)
 lstSourceParcel.Add(objSourceParcel)

 ' Create split merge parameter
 Dim objParamSplitMerge As New MyService.DC_MSGovern_ParamSplitMerge
 objParamSplitMerge.UserID = "govern" ' Username from DB
 objParamSplitMerge.UserPassword = "govern" ' Password from DB
 objParamSplitMerge.YearOfSplitMerge = 2011 ' Year of the split merge
 objParamSplitMerge.NumberCreatedParcel = 3 ' Number of created destination parcels

```

```

' Set to False when copied and True when moved
objParamSplitMerge.SourceParcelsStayAliveFlag = False

' Department for the split merge
objParamSplitMerge.Department = "03"

' Duplicate data using given p_id for all the destination pc
objParamSplitMerge.DuplicateParcelID = 71954

' Created parcel in the DB
objParamSplitMerge.CreationType = MyService.MSGovern_Creation_Type.CreateParcel

' List of source parcels
objParamSplitMerge.CollectionSourceParcel = 1stSourceParcel

' List of destination parcels
objParamSplitMerge.CollectionDestinationParcel = 1stDestinationParcels

' Create split merge records in pc_genealogy
Dim objSplitMerge As MyService.DC_MSGovern_SplitMerge =
 objServiceClient.MSGovern_PC_SplitMerge(objParamSplitMerge)

' Close service client
objServiceClient.Close()

' Return split merge number from the DB
Return objSplitMerge.SplitMergeNumber

End Function

```

35) **Function** MSGovern\_PC\_UpdateLinkBetweenParcelAndGisObject (  
     ByVal objLinkParcelGIS As DC\_MSGovern\_LinkParcelGIS) As Integer

36) **Function** MSGovern\_PC\_UpdateParcelAddress (  
     ByVal objParamGetInfoBase As DC\_MSGovern\_ParamGetInfoBase,  
     ByVal objAddress As DC\_MSGovern\_ParcelAddress) As Integer

To be able to create a new address, the location sequence in the object DC\_MSGovernParcelAddress must be -1

#### On October 8th 2009

The return value of this method has been changed from **Boolean** to **Integer**. If the integer returned is -1 an error will occur, otherwise, we return the location sequence of the new address.

#### On October 15th 2009

The caller can use an existing validation table to validate the street and city. For example, in the database there's a validation table called vt\_usr\_street, the caller can pass 'vt\_usr\_street' or 'street' in the StreetValidationTableName property. An exception will be thrown if an invalid table is passed.

36) **Function** MSGovern\_PC\_UpdateParcelOwner (  
     ByVal objParamGetInfoBase As DC\_MSGovern\_ParamGetInfoBase,  
     ByVal objOwner As DC\_MSGovern\_Owner) As Boolean

To be able to create a new owner, you can pass a new 'owner id', change the 'as of' date or change the 'status'.

37) **Function** `MSGovern_PC_UpdatePropertyArea (`  
`ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase,`  
`ByVal intYearID As Integer,`  
`ByVal intFrozenID As Integer,`  
`ByVal intAreaSequence As Integer,`  
`ByVal objPropertyArea As DC_MSGovern_PropertyArea,`  
`ByVal booForwardToNextYears As Boolean) As Integer`

**On October 8th 2009**

The return value of this method has been changed from **Boolean** to **Integer**. If the integer returned is -1 an error will occur otherwise, we return the **area sequence** of the **new address**.

**On October 8th 2009**

We add the parameter `booForwardToNextYears` to allow the caller to decide to apply the property area changes to eventual subsequent years (> `intYearID`).

**On October 15th 2009**

We only allow the caller to create or update records with a frozen id that is equal to 0. If the caller passes a frozen id other than 0, an exception will be thrown.

The parameter `intYearID` passed in the method `MSGovern_PC_UpdatePropertyArea` should normally be the same as the year id in the object `DC_MSGovern_PropertyArea`. As of *October 21<sup>st</sup> 2009*, if the value of these two (2) year ids are not the same, we will override the year id of the `DC_MSGovern_PropertyArea` object with the parameter `intYearID`.

The parameter `intFrozenID` passed in the method `MSGovern_PC_UpdatePropertyArea` should normally be the same as the frozen id in the object `DC_MSGovern_PropertyArea`. If the value of these 2 frozen ids are not the same, we will override the frozen id of the `DC_MSGovern_PropertyArea` object with the parameter `intFrozenID`.

The parameter `intAreaSequence` passed in the method `MSGovern_PC_UpdatePropertyArea` should normally be the same as the area sequence in the object `DC_MSGovern_PropertyArea`. If the value of these 2 area sequences are not the same, we will override the area sequence of the `DC_MSGovern_PropertyArea` object with the parameter `intAreaSequence`.

The parameter `DC_MSGovern_ParamGetInfoBase` has a property called `ParcelID`, this parcel id should normally be the same as the parcel id in the object `DC_MSGovernLegalInfo`. If the value of these 2 parcel ids are not the same, we will override the parcel id of the `DC_MSGovern_PropertyArea` object using the value found on the object `DC_MSGovern_ParamGetInfoBase`.

38) **Function** `MSGovern_PC_UpdatePropertyLegalInfo (`  
`ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase,`  
`ByVal intYearID As Integer,`  
`ByVal intFrozenID As Integer,`  
`ByVal objPropertyLegalInfo As DC_MSGovern_LegalInfo,`  
`ByVal booForwardToNextYears As Boolean) As Boolean`

On October 8th 2009, we add the parameter `booForwardToNextYears` to allow the caller to decide to apply the property area changes to eventual subsequent years (> `intYearID`).

**On October 15th 2009**

We only allow the caller to create or update records with a frozen id of 0. If the caller passes a frozen id other than 0, an exception will be thrown.

The parameter `intYearID` passed in the method `MSGovern_PC_UpdatePropertyLegalInfo` should normally be the same as the year id in the object `DC_MSGovern_LegalInfo`. Starting on October 21<sup>st</sup> 2009, if the value of these 2 year ids are not the same, we will override the year id of the `DC_MSGovern_LegalInfo` object with the parameter `intYearID`.

The parameter `intFrozenID` passed in the method `MSGovern_PC_UpdatePropertyLegalInfo` should normally be the same as the frozen id in the object `DC_MSGovern_LegalInfo`. If the value of these two (2) frozen ids are not the same, we will override the frozen id of the `DC_MSGovern_LegalInfo` object with the parameter `intFrozenID`.

The parameter `DC_MSGovern_ParamGetInfoBase` have a property called `ParcelID`, this parcel id should normally be the same as the parcel id in the object `DC_MSGovern_LegalInfo`. If the value of these 2 parcel ids are not the same, we will override the parcel id of the `DC_MSGovern_LegalInfo` object using the value found on the object `DC_MSGovern_ParamGetInfoBase`.

The default value of the total size unit is 'a' (acres); if the caller does not specify the total size unit but sets the size 1 unit or the size 2 unit, it will save the default value 'a' (acres) in the total size of the unit. If the caller passes the total size unit, it will save the value of the caller instead of using the default value. The total size unit will not be set with the default value if the size 1 unit and the size 2 unit are empty. This is the same methodology used in *Govern for Windows*.

```
39) Function MSGovern_PC_UpdateParcel (
 ByVal objParamGetInfoBase As DC_MSGovern_ParamGetInfoBase,
 ByVal objParcel As DC_MSGovern_Parcel) As Boolean
```

To be able to update an existing parcel, you will need to set a valid parcel id and all the fields you want to change.

```
40) Function MSGovern_SY_GetMultipleTextResources (
 ByVal objMultipleTextResource As DC_MSGovern_MultipleTextResource,
 ByVal strCulture As String)As List(Of DC_MSGovern_TextResource)
```

```
41) Function MSGovern_SY_GetSingleTextResource (
 ByVal objTextResource As DC_MSGovern_TextResource, ByVal strCulture As
 String) As DC_MSGovern_TextResource
```

```
42) Function MSGovern_PC_GetListParcelIds (
 strUserID As String, strPassword As String, lstParamParcelIds As
 List(Of DC_MSGovern_ParamParcel) As List(Of
 DC_MSGovern_ParamParcel)
```

Get the parcel id of a list of given tax map number or subdivision/lot.

This method has been changed. Users should use the `MSGovern_PC_GetListParcelIds` method with the parameter `DC_MSGovern_ParamAuthentication`.

```
43) Function MSGovern_PC_GetListParcelIds (
 objParamAuthentication As DC_MSGovern_ParamAuthentication,
 lstParamGetParcelID As List(Of DC_MSGovern_ParamParcel)) As List(Of
 DC_MSGovern_ParamParcel)
```

```
44) Function MSGovern_GetElementValue (
 objParamAuthentication As DC_MSGovern_ParamAuthentication,
```

```
objParamGetElement As DC_MSGovern_ParamGetElement)
As List(Of DC_MSGovern_ElementResult)
```

45) **Function** MSGovern\_SetElementValue( (

```
objParamAuthentication As DC_MSGovern_ParamAuthentication,
objParamSetElement As DC_MSGovern_ParamSetElement)
As Boolean
```

Throw exception when the records from usr\_data\_mapping is required.

46) **Function** MSGovern\_GetTableColumns(

```
objParamAuthentication As DC_MSGovern_ParamAuthentication,
strTableName As String)
As List(Of DC_MSGovern_UserColumn)
```

Gets all columns of a table.

47) **Function** MSGovern\_GetElementsDetails(

```
objParamAuthentication As DC_MSGovern_ParamAuthentication)
As List(Of DC_MSGovern_ElementDetail)
```

Retrieves all records from usr\_data\_mapping by returning the following element details:

- Mapping name
- Presentable name
- Column name
- Table name
- Column Type
- Column max width (Only available for string and VT type)
- Validation table name
- Full description
- Required value

48) **Function** MSGovern\_GetElementDetailVT(

```
objParamAuthentication As DC_MSGovern_ParamAuthentication,
objElementDetailVT As DC_MSGovern_ElementDetailVT)
As List(Of DC_MSGovern_ElementAcceptableValue)
```

Gets the validation element detail from vt\_user or vt\_system:

- Code
- Description
- Department
- Year

49) **Function** MSGovern\_GetNamesetForUser(

```
objParamAuthentication As DC_MSGovern_ParamAuthentication)
As List(Of String)
```

This function will return all namesets defined for a given user.

50) **Function** GIS\_GetGisIdForNameset(

```
objParamAuthentication As DC_MSGovern_ParamAuthentication,
```

```
strNameset As String)
As DC_GIS_GetGisIdResults
```

This function will retrieve all GIS keys (Gis ID and Layer Name) for the selected nameset. All Govern ID's that have no GIS IDs will be returned in a string list in the following format:

"ID Type:ID Value - ID Description"

EX: "Parcel:5123 TaxMap 123-123-123"

51) **Function** GIS\_SetNamesetWithGisIds (

```
objParamAuthentication As DC_MSGovern_ParamAuthentication,
strNameset As String,
booAppendToExisting As Boolean,
lstGisIds As List(Of Integer))
As List(Of Integer))
```

This function will create or update a Govern Nameset. For each GIS key (Gis ID and Layer Name) it will find the associated Govern ID and add them to the selected Nameset.

All GIS ID's that have no Govern ID will be returned in a list of Integers.

52) **Function** GIS\_GetGisIdDescription (

```
objParamAuthentication As DC_MSGovern_ParamAuthentication,
lstGisKeys As List(Of DC_GIS_Key))
As List(Of DC_GIS_GisDescription))
```

This function will retrieve all GIS description for the selected GIS key (Gis ID and Layer Name). All GIS key will be returned in a list of string in the format:

"ID Type:ID Value - ID Description"

EX: "Parcel:5123 TaxMap 123-123-123"

If GIS id is not found, description will be empty.

53) **Function** GIS\_InitializaSplitMergeTransaction (

```
objParamAuthentication As DC_MSGovern_ParamAuthentication,
lstSource As List(Of DC_GIS_SplitMergeSource),
lstDestination As List(Of SplitMergeDestination),
objSplitMergeFullImage As Byte()) As DC_MSGovern_SplitMerge
```

This function will initialize the *Split /Merge/Remap* transaction in the Govern database.

54) **Function** GIS\_GetParcelAttributes (

```
objParamAuthentication As DC_MSGovern_ParamAuthentication)
As List(Of DC_MSGovern_ParcelAttribute)
```

Return all the possible attributes for a parcel (only in mockup at this moment)

## IV. Data contracts

Property Control service provides the following data contracts (objects):

### 1) DC\_MSGovern\_Building

```
Public Class DC_MSGovern_Building

 Public Property BuildingID() As Integer
 Public Property BuildingSequence() As Short
 Public Property EffectiveYear() As Short
 Public Property InactiveYear() As Short
 Public Property SecondaryAddressIndex() As String
 Public Property Unit() As String
 Public Property LocationSequence() As Short

End Class
```

### 2) DC\_MSGovern\_DataMappingElement

```
Public Class DC_MSGovern_DataMappingElement

 Public Property ElementName() As String
 Public Property ElementValues() As List(Of String)

End Class
```

### 3) DC\_MSGovern\_Document

```
Public Class DC_MSGovern_Document

 Public Property InformationID() As Integer
 Public Property DepartmentCode() As String
 Public Property InformationCode() As String
 Public Property DateOfEntry() As DateTime
 Public Property SubCode() As String
 Public Property DateOfAction() As DateTime
 Public Property Notes() As String
 Public Property ReferenceType() As String
 Public Property ReferenceID() As Integer
 Public Property ReferenceSequence() As Short
 Public Property DocumentLocator() As Integer
 Public Property KeyCounter() As Integer
 Public Property OldID() As Integer
 Public Property InspectionCode() As String
 Public Property BatchDeleteOn() As Short

End Class
```

### 4) DC\_MSGovern\_GIS\_Object

```
Public Class DC_MSGovern_GIS_Object

 Public Property GIS_RecordID() As Integer
 Public Property LayerName() As String
 Public Property ObjectID() As Integer

End Class
```



End Class

## 5) DC\_MSGovern\_Hearing

```
Public Class DC_ MSGovern_Hearing

 Public Property HearingID() As Integer
 Public Property DepartmentCode() As String
 Public Property DateOfHearing() As DateTime
 Public Property RecordSequence () As Integer
 Public Property Status() As String
 Public Property RoomCode() As String
 Public Property Notes() As String

End Class
```

## 6) DC\_MSGovern\_LinkParcelGIS

```
Public Class DC_ MSGovern_LinkParcelGIS

 Public Property ParcelID() As Integer
 Public Property GisID() As Integer
 Public Property GIS_FromDate() As DateTime
 Public Property GIS_ToDate () As DateTime

End Class
```

## 7) DC\_MSGovern\_MultipleTextResource

```
Public Class DC_MSGovern_MultipleTextResource

 Public Property CollectionOfTextResources() As List(Of
 DC_MSGovern_TextResource)

End Class
```

## 8) DC\_MSGovern\_Occupant

```
Public Class DC_ MSGovern_Occupant

 Public Property OccupantID() As Integer
 Public Property AsOfDate() As DateTime
 Public Property StatusCode() As String
 Public Property BuildingID() As Integer
 Public Property BuildingSequence() As Short
 Public Property Notes() As String
 Public Property CurPrev() As MSGovern_EN_OwnerType

End Class
```

**9) DC\_MSGovern\_Offence**

```

Public Class DC_ MSGovern_Offence

 Public Property OffenceID() As Integer
 Public Property OffenceNumber() As String
 Public Property AlternateNumber() As String
 Public Property ViolationType() As String
 Public Property DateOfOffence() As DateTime
 Public Property ActionTaken() As String
 Public Property TotalFee() As Decimal
 Public Property LastFee() As Decimal
 Public Property DateOfLastFee () As DateTime
 Public Property StatingDate() As DateTime
 Public Property ExpirationDate() As DateTime
 Public Property StatusCode() As String
 Public Property DispositionCode() As String
 Public Property DateOfDisposition() As DateTime
 Public Property OriginCode() As String
 Public Property HistoryData() As Short

End Class

```

**10) DC\_MSGovern\_Owner**

```

Public Class DC_ MSGovern_Owner

 Public Property OwnerID() As Integer
 Public Property AsOfDate() As DateTime
 Public Property Status() As MSGovern_EN_OwnerType
 Public Property SourceInfoCode() As String
 Public Property OwnershipPercentage() As Decimal
 Public Property OccupantFlag() As Boolean
 Public Property NoCorrespondanceFlag() As Boolean
 Public Property PrioritySequence() As Short
 Public Property Notes() As String

End Class

```

**11) DC\_MSGovern\_ParamGetInfoBase**

```

Public Class DC_MSGovern_ParamGetInfoBase

 Public Property UserID() As String
 Public Property UserPassword() As String
 Public Property ParcelID() As Integer
 Public Property Department() As String

End Class

```

**On October 15<sup>th</sup>, 2009**

A Department Property was added to allow the caller to pass the *Department* in the *Audit Trail*. The *Department* is not a required property; the caller can decide not to pass a department in the DC\_MSGovern\_ParamGetInfoBase.

**12) DC\_MSGovern\_ParamGetInfoOccupant**

```
Public Class DC_MSGovern_ParamGetInfoOccupant Inherits
DC_MSGovern_ParamGetInfoBase

 Public Property OccupantType() As String

End Class
```

**13) DC\_MSGovern\_ParamGetInfoOwner**

```
Public Class DC_MSGovern_ParamGetInfoOwner Inherits
DC_MSGovern_ParamGetInfoBase

 Public Property OwnerType() As MSGovern_EN_OwnerType?

End Class
```

**14) DC\_MSGovern\_ParamGetInfoPersonalProperty**

```
Public Class DC_MSGovern_ParamGetInfoPersonalProperty
Inherits DC_MSGovern_ParamGetInfoBase

 Public Property FrozenID() As Integer?
 Public Property PersonalPropertyID() As Integer?
 Public Property YearID() As Integer?

End Class
```

**15) DC\_MSGovern\_ParamGetInfoPropertyArea**

```
Public Class DC_MSGovern_ParamGetInfoPropertyArea Inherits
DC_MSGovern_ParamGetInfoBase

 Public Property AreaSequence() As Integer?
 Public Property FrozenID() As Integer?
 Public Property YearID() As Integer?

End Class
```

**16) DC\_MSGovern\_ParamGetInfoPropertyLegalInfo**

```
Public Class DC_MSGovern_ParamGetInfoPropertyLegalInfo
Inherits DC_MSGovern_ParamGetInfoBase

 Public Property FrozenID() As Integer?
 Public Property YearID() As Integer?

End Class
```

**17) DC\_MSGovern\_ParamMoveAll**

```
Public Class DC_MSGovern_ParamMoveAll Inherits DC_MSGovern_ParamMoveBase
```

```
Public Property SourceParcelsStayActiveFlag () As Boolean?
Public Property YearOfSplitMerge () As Integer
```

```
End Class
```

#### 18) DC\_MSGovern\_ParamMoveBase

```
Public Class DC_MSGovern_ParamMoveBase
```

```
Public Property UserID() As String
Public Property UserPassword() As String
Public Property SourceParcelID() As Integer
Public Property DestinationParcelID() As Integer
Public Property Department() As String
```

```
End Class
```

#### On October 15<sup>th</sup>, 2009

A *Department* property was added to allow the caller to pass the department in the *Audit Trail*. The *Department* is not a required property, the caller can decide to not pass a department in the *DC\_MSGovern\_ParamMoveBase*.

#### 19) DC\_MSGovern\_ParamMoveBuilding

```
Public Class DC_MSGovern_ParamMoveBuilding Inherits
DC_MSGovern_ParamMoveBase
```

```
Public Property SourceBuildingID() As Integer?
Public Property SourceBuildingSequence() As Short
Public Property YearOfSplitMerge() As Integer
```

```
End Class
```

#### 20) DC\_MSGovern\_ParamMoveHearing

```
Public Class DC_MSGovern_ParamMoveHearing Inherits
DC_MSGovern_ParamMoveBase
```

```
Public Property SourceHearingID() As Integer?
```

```
End Class
```

#### 21) DC\_MSGovern\_ParamMoveMultimediaDocument

```
Public Class DC_MSGovern_ParamMoveMultimediaDocument Inherits
DC_MSGovern_ParamMoveBase
```

```
Public Property SourceDocumentID() As Integer?
Public Property SourceDocumentType() As String
```

```
End Class
```

#### 22) DC\_MSGovern\_ParamMoveOccupant

```
Public Class DC_MSGovern_ParamMoveOccupant Inherits
DC_MSGovern_ParamMoveBuilding
```

```
Public Property SourceOccupantID() As Integer?
```

End Class

## 23) DC\_MSGovern\_ParamMoveOffence

```
Public Class DC_MSGovern_ParamMoveOffence Inherits
DC_MSGovern_ParamMoveBase

 Public Property SourceOffenceID() As Integer?
 Public Property ViolationType() As String

End Class
```

## 24) DC\_MSGovern\_ParamMoveOwner

```
Public Class DC_MSGovern_ParamMoveOwner Inherits
DC_MSGovern_ParamMoveBase

 Public Property SourceOwnerID() As Integer
 Public Property OwnerType() As MSGovern_EN_OwnerType?

End Class
```

## 25) DC\_MSGovern\_ParamMovePermit

```
Public Class DC_MSGovern_ParamMovePermit Inherits
DC_MSGovern_ParamMoveBase

 Public Property SourcePermitID() As Integer?
 Public Property SourcePermitType() As String

End Class
```

## 26) DC\_MSGovern\_ParamMovePersonalProperty

```
Public Class DC_MSGovern_ParamMovePersonalProperty Inherits
DC_MSGovern_ParamMoveBase

 Public Property SourceParcelsStayAliveFlag() As Boolean
 Public Property SourcePersonalPropertyID() As Integer?
 Public Property YearOfSplitMerge() As Integer

End Class
```

## 27) DC\_MSGovern\_ParamMoveWorkflow

```
Public Class DC_MSGovern_ParamMoveWorkflow Inherits
DC_MSGovern_ParamMoveBase

 Public Property WorkflowID() As Integer?
 Public Property WorkflowType() As MSGovern_EN_WorkflowKind?

End Class
```

## 28) DC\_MSGovern\_ParamSplitMerge

```
Public Class DC_MSGovern_ParamSplitMerge
```

```

Public Property UserID() As String
Public Property UserPassword() As String
Public Property CollectionSourceParcel() As List(Of
DC_MSGovern_Parcel)
Public Property YearOfSplitMerge() As Integer
Public Property NumberCreatedParcel() As Integer
Public Property CollectionDestinationParcel() As List(Of
DC_MSGovern_Parcel)
Public Property SourceParcelsStayAliveFlag() As Boolean
Public Property ParcelsAreVirtualFlag As Boolean
Public Property DuplicateParcelID() As Integer?
Public Property CreationType As MSGovern_Creation_Type
Public Property Department() As String
Public Property ParcelGisLinksEndDate As DateTime

```

End Class

#### On October 15<sup>th</sup>, 2009

A Department property is added to allow the caller to pass the department in the Audit Trail. The department is not a required property; the caller can decide not to pass a department in the DC\_MSGovern\_ParamSplitMerge.

#### On December 1<sup>st</sup>, 2010

The ParcelGisLinksEndDate parameter is added to allow the caller to specify the *End Date* for old parcel links in the PC\_LK\_PARCEL\_GIS table. Customers using linking between their geodatabase and the MS Govern' database should pass an End Date here. The End Date is not a required property. Leaving it blank will just leave the parcel and GIS object linking (in table PC\_LK\_PARCEL\_GIS) as is after the *Split/Merge/Remap* function.

### 29) DC\_MSGovern\_Parcel

```

Public Class DC_MSGovern_Parcel

Public Property ParcelID() As Integer
Public Property TaxMapNumber() As String
Public Property UnformattedTaxMapNumber() As String
Public Property Subdivision() As String
Public Property ApprovedSubdivisionFlag() As Boolean
Public Property Lot() As String
Public Property Legal() As String
Public Property EffectiveYear() As Short
Public Property InactiveYear() As Short
Public Property TypeOfOccupancy() As String
Public Property VirtualParcelFlag() As Boolean
Public Property JurisdictionCode() As String
Public Property NonParcelFlag() As Boolean
Public Property NonParcelTypeCode() As String
Public Property NonParcelID() As Integer
Public Property LegalIndex() As String
Public Property UnformattedLegalIndex() As String
Public Property SecondaryKey_1() As String
Public Property SecondaryKey_2() As String
Public Property XCoordinate() As Long
Public Property YCoordinate() As Long
Public Property AddedColumns() As List(Of DC_MSGovern_UserColumn)

```

End Class

**30) DC\_MSGovern\_ParcelAddress**

```

Public Class DC_ MSGovern_ParcelAddress

 Public Property CivicNumber() As Integer
 Public Property CivicAlphaPart() As String
 Public Property PreDirection () As String
 Public Property Street() As String
 Public Property PostDirection () As String
 Public Property Unit() As String
 Public Property City() As String
 Public Property ZipPostalCode() As String
 Public Property Suffix() As String
 Public Property SecondAddressIndex() As String
 Public Property LineBefore() As String
 Public Property LineAfter() As String
 Public Property LocationSequence() As Short
 Public Property FormatedAddress() As String
 Public Property FormatedAddress2() As String
 Public Property GeoDatabaseID() As Integer
 Public Property InactiveAddressFlag() As Boolean
 Public Property CityValidationTableName() As String
 Public Property StreetValidationTableName() As String

End Class

```

**31) DC\_MSGovern\_ParcelLink**

```

Public Class DC_MSGovern_Parcel_Link

 Public Property LinkID() As Integer
 Public Property ParcelID() As Integer
 Public Property MasterParcelID() As Integer
 Public Property EffectiveYear() As Integer
 Public Property InactiveYear() As Integer
 Public Property FromDateGIS() As DateTime
 Public Property EndDateGIS() As DateTime

End Class

```

**32) DC\_MSGovern\_ParcelLinkType**

```

Public Class DC_MSGovern_Parcel_Link_Type

 Public Property LinkID() As Integer
 Public Property LinkType() As String
 Public Property AppraisalLinking () As Boolean
 Public Property ValueOnFlag() As Integer

End Class

```

**33) DC\_MSGovern\_Permit**

```

Public Class DC_ MSGovern_Permit

 Public Property PermitID() As Integer
 Public Property PermitNumber() As String
 Public Property ApplicationNumber() As String
 Public Property CertificateNumber() As String

End Class

```



```

Public Property PermitAlternateID() As String
Public Property TypeOfPermit() As String
Public Property SupplementalCondition() As String
Public Property DateOfApplication() As DateTime
Public Property DateOfPermit() As DateTime
Public Property DateOfCertificate() As DateTime
Public Property DateOfExpiration() As DateTime
Public Property DateOfEffectiveWorkEnd() As DateTime
Public Property DateOfFinalInspection() As DateTime
Public Property DateOfLastFee() As DateTime
Public Property StartDate() As DateTime
Public Property TotalFee() As Decimal
Public Property LastFee() As Decimal
Public Property KindOfPermit() As MSGovern_EN_PermitKind
Public Property Void() As Boolean
Public Property HistoryData() As Boolean
Public Property Billable() As Boolean
Public Property OnHold() As Boolean
Public Property NotSubjectToLien() As Boolean
Public Property CreatedOnWeb() As Boolean
Public Property InspectionCreatedFlag() As Boolean
Public Property ExportFlag() As Boolean

```

End Class

### 34) DC\_MSGovern\_PersonalProperty

```

Public Class DC_MSGovern_PersonalProperty

Public Property PersonalPropertyID() As Integer
Public Property ParcelID() As Integer
Public Property NameID() As Integer
Public Property YearID() As Integer
Public Property FrozenID() As Integer
Public Property BillNumberSequence() As Integer
Public Property PersonalAccountNumber() As String
Public Property TaxCode() As String
Public Property Notes() As String
Public Property ComponentGroup() As String
Public Property LiabilityStatus() As String
Public Property PropertyType() As String
Public Property UserSuffix() As String
Public Property ClassCode() As String
Public Property CopyNextYear() As Boolean
Public Property FilledFlag() As Boolean
Public Property HistoryOnlyFlag() As Boolean
Public Property DuplicateBillFlag() As Boolean
Public Property SubjectToTaxTitleFlag() As Boolean
Public Property Inactive() As Boolean
Public Property TotalTaxes() As Decimal
Public Property RateValue() As Decimal
Public Property NonExempt() As Decimal
Public Property TrueTaxes() As Decimal
Public Property EstimatedTaxes() As Decimal
Public Property MinBaseValue() As Decimal
Public Property VaApTotal() As Decimal
Public Property VaAsTotal() As Decimal
Public Property PreviousYearValue() As Decimal
Public Property PreviousLateCharges() As Decimal

```

```

Public Property PreviousLateChargesHistory() As Decimal
Public Property TemplateValue() As Decimal
Public Property AchSequence() As Smallint
Public Property AchFromDate() As DateTime
Public Property AchUntilDate() As DateTime
Public Property ModificationStamp() As DateTime

```

```
End Class
```

### 35) DC\_MSGovern\_PropertyArea

```

Public Class DC_MSGovern_PropertyArea

Public Property ParcelID() As Integer
Public Property YearID() As Integer
Public Property FrozenID() As Integer
Public Property AreaSequence() As Integer
Public Property Zoning() As String
Public Property AreaID() As String
Public Property Neighborhood() As String
Public Property IncomeNeighborhood () As String
Public Property SubNeighborhood () As String
Public Property Floodzone() As String
Public Property CityDistrict() As String
Public Property SchoolDistrict() As String
Public Property FireDistrict() As String
Public Property ParkDistrict() As String
Public Property SpecialDistrict() As String
Public Property Ward() As String
Public Property Precint() As String
Public Property PollingID() As String
Public Property Inspectionterritory() As String
Public Property AddedColumns () As List (Of MSGovern_UserColumn)


```

```
End Class
```

### 36) DC\_MSGovern\_PropertyLegalInfo

```

Public Class DC_MSGovern_PropertyLegalInfo

Public Property ParcelID() As Integer
Public Property YearID() As Integer
Public Property FrozenID() As Integer
Public Property Size1() As Decimal
Public Property Size1Unit() As String
Public Property Size2() As Decimal
Public Property Size2Unit() As String
Public Property SizeTotal() As Decimal
Public Property SizeTotalUnit() As String
Public Property FrontSize() As Decimal
Public Property DepthSize() As Decimal
Public Property FrontSizeUnit() As String
Public Property GIS_Data_NotSync_With_MA () As Boolean
Public Property Class() As String
Public Property RollSection () As String
Public Property PrimaryLand() As String
Public Property BookNo() As String
Public Property PropertyType() As String
Public Property Legal() As String


```

```

 Public Property AddedColumns () As List (Of MSGovern_UserColumn)

End Class

```

**37) DC\_MSGovern\_SplitMerge**

```

Public Class DC_MSGovern_SplitMerge

 Public Property SplitMergeNumber() As Integer
 Public Property ParcelCollection As List(Of DC_MSGovern_Parcel)

End Class

```

**38) DC\_MSGovern\_TextResource**

```

Public Class DC_MSGovern_TextResource

 Public Property ModuleName () As String
 Public Property FunctionName () As String
 Public Property LabelName () As String
 Public Property Value () As String

End Class

```

**39) DC\_MSGovern\_UserColumn**

```

Public Class DC_MSGovern_UserColumn

 Public Property TableName () As String
 Public Property ColumnName () As String
 Public Property ColumnType () As MSGovern_Column_Type
 Public Property ColumnMaxWidth () As Integer
 Public Property ColumnValue () As Object

End Class

```

**40) DC\_MSGovern\_Workflow**

```

Public Class DC_MSGovern_Workflow

 Public Property WorkflowID () As Integer
 Public Property WorkflowNumber () As String
 Public Property WorkflowKind () As MSGovern_EN_WorkflowKind
 Public Property RequestDate () As DateTime
 Public Property WorkflowType () As String
 Public Property Status () As String
 Public Property Priority () As String
 Public Property Notes () As String
 Public Property TotalFee () As Decimal
 Public Property LastFee () As Decimal
 Public Property DateOfLastFee () As DateTime
 Public Property StartingDate () As DateTime
 Public Property ExpirationDate () As DateTime
 Public Property CreatedOnWebFlag () As Boolean
 Public Property HistoryData () As Short

End Class

```

#### 41) DC\_MSGovern\_UpdateConditionElement

```
Public Class DC_MSGovern_UpdateConditionElement

 Public Property ElementName() As String
 Public Property ElementValue() As String

End Class
```

#### 42) DC\_MSGovern\_ParamParcel

```
Public Class DC_MSGovern_ParamParcel Inherits DC_MSGovern_ParamMoveBase

 Public Property TaxMapNumber() As String
 Public Property Lot() As String
 Public Property Subdivision() As String
 Public Property Department() As String
 Public Property ParcelID() As Integer

End Class
```

#### 43) DC\_MSGovern\_ParamElementCondition

```
Public Class DC_MSGovern_ParamElementCondition
Inherits DC_MSGovern_UserColumn

 Public Property ConditionOperator As MSGovern_ConditionOperator

End Class
```

#### 44) DC\_MSGovern\_ParamElementBase

```
Public Class DC_MSGovern_ParamElementBase

 Public Property Name As String
 Public Property Value As Object
 Public Property ListConditions() As
 List(Of DC_MSGovern_ParamElementCondition)

End Class
```

#### 45) DC\_MSGovern\_ParamUpdateInsertElement

```
Public Class DC_MSGovern_ParamUpdateInsertElement
Inherits DC_MSGovern_ParamElementBase

 Public Property ElementType As MSGovern_ElementType

End Class
```

#### 46) DC\_MSGovern\_ParamGetElement

```
Public Class DC_MSGovern_ParamGetElement

 Public Property ListParcelID As List(Of Integer)
 Public Property ListElements As List(Of DC_MSGovern_ParamElementBase)
```

```
End Class
```

#### 47) DC\_MSGovern\_ParamSetElement

```
Public Class DC_MSGovern_ParamSetElement

 Public Property ListParcelID As List(Of Integer)
 Public Property ListElements As
 List(Of DC_MSGovern_ParamUpdateInsertElement)

End Class
```

#### 48) DC\_MSGovern\_ElementResult

```
Public Class DC_MSGovern_ElementResult

 Public Property FieldName As String
 Public Property FieldValue As Object
 Public Property Year_ID As Integer?
 Public Property Frozen_ID As Integer?
 Public Property Ref_ID As Integer?
 Public Property Ref_Sequence As Integer?
 Public Property ElementName As String
 Public Property P_ID As Integer
 Public Property FieldType As MSGovern_Column_Type
 Public Property ShortDescription As String
 Public Property LongDescription As String

End Class
```

#### 49) DC\_MSGovern\_ColumnDetail

```
Public Class DC_MSGovern_ColumnDetail

 Public Property ColumnMaxWidth As Integer
 Public Property ColumnName As String
 Public Property ColumnType As MSGovern_Column_Type
 Public Property ColumnValue As String
 Public Property TableName As String

End Class
```

#### 50) DC\_MSGovern\_ElementDetail

```
Public Class DC_MSGovern_ElementDetail

 Public Property MappingName As String
 Public Property PresentableName As String
 Public Property ColumnMaxWidth As Integer
 Public Property ColumnName As String
 Public Property ColumnType As MSGovern_Element_Type
 Public Property TableName As String
 Public Property ValidationTableName As String
 Public Property FullDescription As String
 Public Property RequiredValue As Boolean

End Class
```

End Class

**51) DC\_MSGovern\_ElementAcceptableValue**

```
Public Class DC_MSGovern_ElementAcceptableValue

 Public Property DatabaseValue As String
 Public Property PresentableName As String
 Public Property Year_ID As Integer
 Public Property Department As String
End Class
```

**52) DC\_MSGovern\_ElementDetailVT**

```
Public Class DC_MSGovern_ElementDetailVT

 Public Property Department As String
 Public Property Year_ID As Integer
 Public Property ValidationTableName As String
 Public Property ValidationType As MSGovern_ValidationType
End Class
```

**53) MSGovern\_Column\_Type**

```
Public Enum MSGovern_Column_Type
 NoneType
 DatetimeType
 DecimalType
 IntegerType
 StringType
 DoubleType
 MemoType
End Enum
```

**54) MSGovern\_EN\_OwnerType**

```
Public Enum MSGovern_EN_OwnerType
 Owner
 Prior
End Enum
```

**55) MSGovern\_EN\_PermitKind**

```
Public Enum MSGovern_EN_PermitKind
 Approval
 Animal License
 Building Permit
 Business License
 Bonds
 Decision
 Electrical Permit
 General Permit
 License
 Light Permit
 Plumbing
 Prosecution and Appeals
End Enum
```

```
 Permit to Name
End Enum
```

**56) MSGovern\_EN\_WorkflowKind**

```
Public Enum MSGovern_EN_WorkflowKind
 Complaint
 Grievance
 RequestForService
 Workflow
End Enum
```

**57) MSGovern\_EN\_Creation\_Type**

```
Public Enum MSGovern_Creation_Type
 GenerateParcelID
 CreateParcel
 CreateUpdateParcel
End Enum
```

**58) MSGovern\_EN\_Creation\_Type**

```
Public Enum MSGovern_ElementType
 Update = 0
 Insert = 1
End Enum
```

**59) MSGovern\_EN\_Creation\_Type**

```
Public Enum MSGovern_ConditionOperator
 Equal
 GreaterThan
 SmallerThan
 GreaterEqualThan
 SmallerEqualThan
 Different
End Enum
```

**60) MSGovern\_Element\_Type**

```
Public Enum MSGovern_Element_Type
 None = 0
 BooleanType = 1
 DatetimeType = 2
 DecimalType = 3
 IntegerType = 4
 MemoType = 5
 StringType = 6
 VtSystemType = 7
 VtUserType = 8
End Enum
```

**61) MSGovern\_ValidationType**

```
Public Enum MSGovern_ValidationType
 System = 0
 User = 1
End Enum
```

**62) DC\_GIS\_GetGisIdResults**

```
Public Class DC_GIS_GetGisIdResults
 Public Property GisKeys As List(Of DC_GIS_Key)
 Public Property GovernIdNotFound As List(Of String)
End Class
```

**63) DC\_GIS\_SplitMergeSource**

```
Public Class DC_GIS_SplitMergeSource
 Public Property GisKey As DC_GIS_Key
 Public Property GisImage As Of ? (to be determine)
End Class
```

**64) DC\_GIS\_SplitMergeDestination**

```
Public Class DC_GIS_SplitMergeDestination
 Public Property GisKey As DC_GIS_Key
 Public Property GisImage As Of ? (to be determine)
 Public Property TaxMap As String
 Public Property Subdivision As String
 Public Property Lot As String
 Public Property ParcelAttributes As
 List(Of DC_MSGovern_ParcelAttribute)
End Class
```

**65) DC\_GIS\_Key**

```
Public Class DC_GIS_Key
 Public Property GisId As Integer
 Public Property GisLayerName As String
End Class
```

**66) DC\_GIS\_GisDescription**

```
Public Class DC_GIS_GisDescription
 Public Property GisKey As DC_GIS_Key
 Public Property Description As String
 Public Property ParcelAttributes As
 List(Of DC_MSGovern_ParcelAttribute)
End Class
```

**67) DC\_MSGovern\_ParcelAttribute**

```
Public Class DC_MSGovern_ParcelAttribute
 Public Property Name As String
 Public Property Type As MSGovern_Column_Type
 Public Property Value As String
```



```
Public Property IsRequired As Boolean
End Class
```

## V. Soap Exceptions

The *Property Control* service uses strongly-typed fault exceptions to allow service consumers to have better exception handling.

The service can throw the following soap exceptions:

### 1) DC\_FE\_BaseException

```
Public Class DC_FE_BaseException

 Public Property DBConnectionKey() As String
 Public Property Message() As String
 Public Property OperationName() As String
 Public Property FaultCode() As String

End Class
```

### 2) DC\_FE\_BusinessRulesViolation

```
Public Class DC_FE_BRViolation Inherits DC_FE_BaseException
End Class
```

### 3) DC\_FE\_DataAccessViolation

```
Public Class DC_FE_DataAccess Inherits DC_FE_BaseException
End Class
```

### 4) DC\_FE\_NonExistingUser

```
Public Class DC_FE_NonExistingUser Inherits DC_FE_BaseException
End Class
```

### 5) DC\_FE\_NonExistingBusinessEntity

```
Public Class DC_FE_NonExistingBusinessEntity Inherits DC_FE_BaseException
End Class
```

## 6) FaultException Message Examples:

### a. User :

➤ NonExistingUser

| Message                                                  |
|----------------------------------------------------------|
| The given user does not exist (intUserID)                |
| The password does not correspond for user ID (intUserID) |

### b. Parcel :

➤ NonExistingBusinessEntity

| Message                                                                             |
|-------------------------------------------------------------------------------------|
| Invalid parcel number (intparcelID)                                                 |
| Invalid number of parcel to be created (intNbrCreatedParcel)                        |
| The length of subdivision must be equal or less than 60 characters (strSubdivision) |

**N.B.:** Complete fault exception documentation will be available at a later date.