

Object Browser

Browse: My Solution

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Microsoft Visual Studio 2010 Professional

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New Project...

Solution Explorer

New Project

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Online Templates

Name: OdataTest1

Location: G:\Projects\All_Test\

Solution name: OdataTest1

ASP.NET Web Application

ASP.NET MVC 2 Web Application

ASP.NET MVC 3 Web Application

ASP.NET MVC 4 Web Application

ASP.NET Empty Web Application

ASP.NET MVC 2 Empty Web Application

ASP.NET Dynamic Data Entities Web Application

ASP.NET Dynamic Data Linq to SQL Web Application

ASP.NET AJAX Server Control

ASP.NET AJAX Server Control Extender

ASP.NET Server Control

Type: Visual Basic

An empty project for creating an application with a Web user interface

Create directory for solution

Add to source control

OK Cancel

Subversion Info

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Add New Item - OdataTest1

Sort by: Default

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| | LINQ to SQL Classes | Visual Basic |
| | SQL Server Database | Visual Basic |
| | XML File | Visual Basic |
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| | XML To Schema | Visual Basic |
| | XSLT File | Visual Basic |

Online Templates

Name: MyArchiveDB|edmx

Add Cancel

Properties

OdataTest1 Project Properties

Always Start When Debug: **True**

Project File: OdataTest1.vbproj

Project Folder: G:\Projects\All_Test\OdataTes

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OdataTest1 Project Properties

Always Start When Debug **True**

| | |
|----------------|-------------------------------|
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Entity Data Model Wizard

Choose Model Contents

What should the model contain?

Generate from database

Empty model

Generates the model from a database. Classes are generated from the model when the project is compiled. This wizard also lets you specify the database connection and database objects to include in the model.

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Output

Show output from: Subversion - AnkhSVN

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Entity Data Model Wizard

Choose Your Data Connection

Which data connection should your application use to connect to the database?

intel.MyArchive.dbo [New Connection...]

This connection string appears to contain sensitive data (for example, a password) that is required to connect to the database. Storing sensitive data in the connection string can be a security risk. Do you want to include this sensitive data in the connection string?

No, exclude sensitive data from the connection string. I will set it in my application code.

Yes, include the sensitive data in the connection string.

Entity connection string:

```
metadata=res://*/MyArchiveDB.csd|res://*/MyArchiveDB.ssd|res://*/MyArchiveDB.msl;provider=System.Data.SqlClient;provider connection string="Data Source=INTEL;Initial Catalog=MyArchive;Integrated Security=True"
```

Save entity connection settings in Web.Config as:

MyArchiveEntities

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Properties

OdataTest1 Project Properties

Always Start When Debugging: **True**

| | |
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Show output from: Subversion - AnkhSVN

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Entity Data Model Wizard

Choose Your Database Objects

Which database objects do you want to include in your model?

- Tables
 - Dirs (dbo)
 - tmp1 (dbo)
 - tmp2 (dbo)
 - tmp3 (dbo)
 - VD2VF (dbo)
 - VirtualDir (dbo)
 - VirtualFile (dbo)
- Views
 - VirtualVideoFile (dbo)
- Stored Procedures

Pluralize or singularize generated object names
 Include foreign key columns in the model

Model Namespace:
MyArchiveModel

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Properties

OdataTest1 Project Properties

Always Start When Debug **True**

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Always Start When Debugging

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Show output from: Subversion - AnkhSVN

Output window content is empty.

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MyArchiveDB.edmx

Dirs tmp2 VD2VF VirtualVideoF...

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Sort by: Default

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Online Templates

- ASP.NET Module
- ASP.NET Server Control
- Authentication Domain Service
- Browser File
- Domain Service Class
- Dynamic Data Field
- Generic Handler
- Global Application Class
- Site Map
- Skin File
- WCF Data Service
- WCF Service
- Web Configuration File
- Web Service

Type: Visual Basic

A class for creating a WCF service

Name: Service1.svc

Add Cancel

Model Browser Solution Explorer

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OdataTest1 Project Properties

Always Start When Debug **True**

Project File OdataTest1.vbproj

Project Folder G:\Projects\All_Test\OdataTest1

0 Errors 4 Warnings 4 Messages

| | Description | File | Line | Column | Project |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|--------|------------|
| 1 | The table/view 'MyArchive.dbo.tmp1' does not have a primary key defined and no valid primary key could be inferred. This table/view has been excluded. To use the entity, you will need to review your schema, add the correct keys, and uncomment it. | MyArchiveDB.edmx | 0 | 1 | OdataTest1 |
| 2 | The table/view 'MyArchive.dbo.tmp2' does not have a primary key defined. The key has been inferred and the definition was created as a read-only table/view. | MyArchiveDB.edmx | 0 | 1 | OdataTest1 |
| 3 | The table/view 'MyArchive.dbo.tmp3' does not have a primary key defined. The key has been inferred and the definition was created as a read-only table/view. | MyArchiveDB.edmx | 0 | 1 | OdataTest1 |
| 4 | The table/view 'MyArchive.dbo.VirtualVideoFile' does not have a primary key defined. The key has been inferred and the definition was created as a read-only table/view. | MyArchiveDB.edmx | 0 | 1 | OdataTest1 |

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MyArchiveDB.edmx

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Add New Item - OdataTest1

Sort by: Default

Search Installed Templates

Visual Basic

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Online Templates

- ASP.NET Module
- ASP.NET Server Control
- Authentication Domain Service
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- Domain Service Class
- Dynamic Data Field
- Generic Handler
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- Site Map
- Skin File
- WCF Data Service
- WCF Service
- Web Configuration File
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Type: Visual Basic

A class to provide an WCF Data Service.

Name: WcfDataService1.svc

Add Cancel

Properties

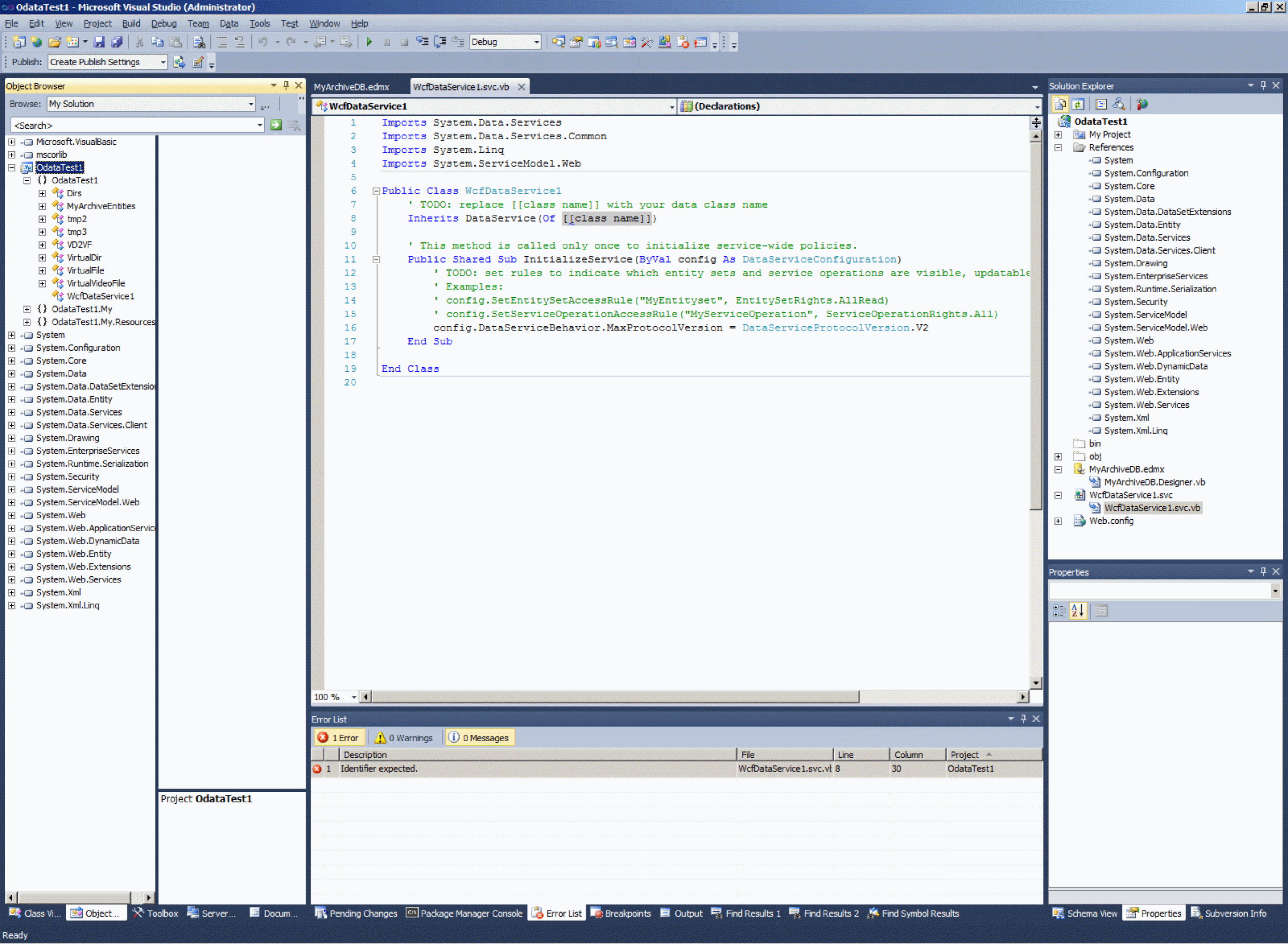
OdataTest1 Project Properties

Always Start When Debugging: True

Project File: OdataTest1.vbproj

Project Folder: G:\Projects\All_Test\OdataTest1

| | Description | File | Line | Column | Project |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|--------|------------|
| 1 | The table/view 'MyArchive.dbo.tmp1' does not have a primary key defined and no valid primary key could be inferred. This table/view has been excluded. To use the entity, you will need to review your schema, add the correct keys, and uncomment it. | MyArchiveDB.edmx | 0 | 1 | OdataTest1 |
| 2 | The table/view 'MyArchive.dbo.tmp2' does not have a primary key defined. The key has been inferred and the definition was created as a read-only table/view. | MyArchiveDB.edmx | 0 | 1 | OdataTest1 |
| 3 | The table/view 'MyArchive.dbo.tmp3' does not have a primary key defined. The key has been inferred and the definition was created as a read-only table/view. | MyArchiveDB.edmx | 0 | 1 | OdataTest1 |
| 4 | The table/view 'MyArchive.dbo.VirtualVideoFile' does not have a primary key defined. The key has been inferred and the definition was created as a read-only table/view. | MyArchiveDB.edmx | 0 | 1 | OdataTest1 |



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- System.Xml.Linq

```

1 Imports System.Data.Services
2 Imports System.Data.Services.Common
3 Imports System.Linq
4 Imports System.ServiceModel.Web
5
6 Public Class WcfDataService1
7     ' TODO: replace [[class name]] with your data class name
8     Inherits DataService(Of [[class name]])
9
10    ' This method is called only once to initialize service-wide policies.
11    Public Shared Sub InitializeService(ByVal config As DataServiceConfiguration)
12        ' TODO: set rules to indicate which entity sets and service operations are visible, updatable
13        ' Examples:
14        ' config.SetEntitySetAccessRule("MyEntityset", EntitySetRights.AllRead)
15        ' config.SetServiceOperationAccessRule("MyServiceOperation", ServiceOperationRights.All)
16        config.DataServiceBehavior.MaxProtocolVersion = DataServiceProtocolVersion.V2
17    End Sub
18
19 End Class
20

```

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Namespace **OdataTest1**
Member of [OdataTest1](#)

MyArchiveDB.edmx WcfDataService1.svc.vb*

WcfDataService1 (Declarations)

```

1 Imports System.Data.Services
2 Imports System.Data.Services.Common
3 Imports System.Linq
4 Imports System.ServiceModel.Web
5
6 Public Class WcfDataService1
7     ' TODO: replace [[class name]] with your data class name
8     Inherits DataService(Of OdataTest1.)
9
10    ' This method is called only once t
11    Public Shared Sub InitializeService
12        ' TODO: set rules to indicate w
13        ' Examples:
14        ' config.SetEntitySetAccessRule
15        ' config.SetServiceOperationAcc
16        config.DataServiceBehavior.MaxP
17    End Sub
18
19 End Class
20

```

MyArchiveEntities
Class MyArchiveEntities
No Metadata Documentation available.

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| 1 | Identifier expected. | WcfDataService1.svc.vb | 8 | 30 | OdataTest1 |

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```
MyArchiveDB.edmx WcfDataService1.svc.vb* X
WcfDataService1 InitializeService
1 Imports System.Data.Services
2 Imports System.Data.Services.Common
3 Imports System.Linq
4 Imports System.ServiceModel.Web
5
6 Public Class WcfDataService1
7     ' TODO: replace [[class name]] with your data class name
8     Inherits DataService(Of OdataTest1.MyArchiveEntities)
9
10    ' This method is called only once to initialize service-wide policies.
11    Public Shared Sub InitializeService(ByVal config As DataServiceConfiguration)
12        ' TODO: set rules to indicate which entity sets and service operations are visible, updatable
13        ' Examples:
14        ' config.SetEntitySetAccessRule("MyEntityset", EntitySetRights.AllRead)
15        ' config.SetServiceOperationAccessRule("MyServiceOperation", ServiceOperationRights.All)
16        config.DataServiceBehavior.MaxProtocolVersion = DataServiceProtocolVersion.V2
17        config.SetEntitySetAccessRule("**", EntitySetRights.AllRead)
18    End Sub
19
20 End Class
21
```

Solution Explorer

OdataTest1

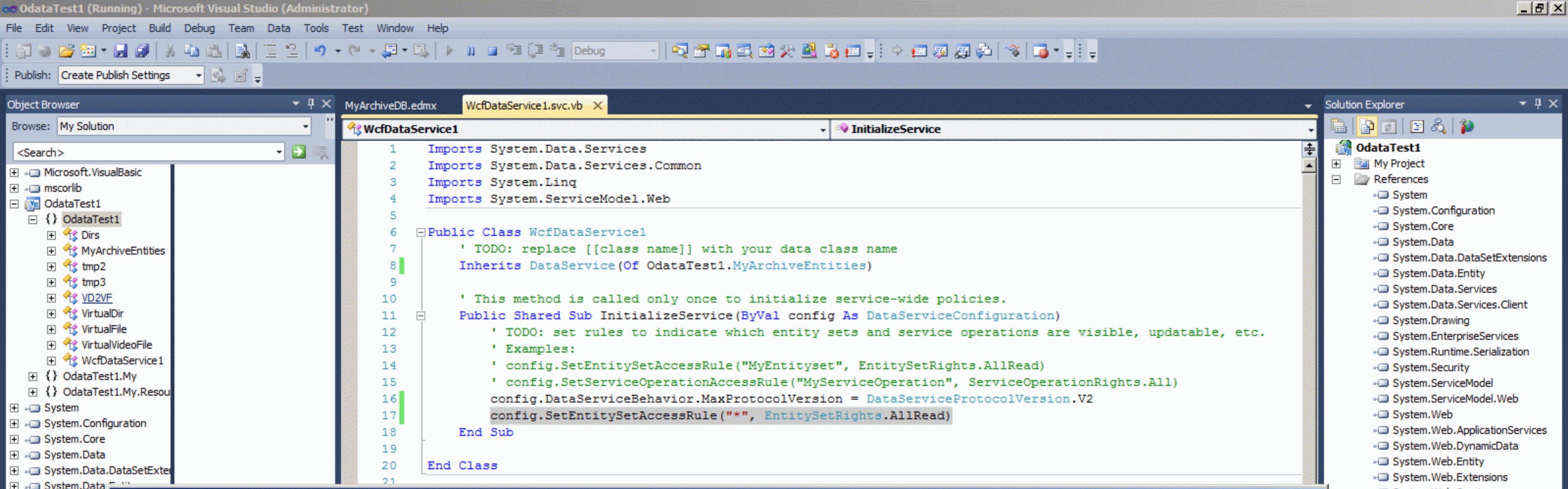
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Namespace OdataTest1
Member of OdataTest1



Memory gates checking failed because the free memory (162050048 bytes) is less than 5% of total mem

localhost:24278/WcfDataService1.svc

Server Error in '/' Application.

Memory gates checking failed because the free memory (162050048 bytes) is less than 5% of total memory. As a result, the service will not be available for incoming requests. To resolve this, either reduce the load on the machine or adjust the value of minFreeMemoryPercentageToActivateService on the serviceHostingEnvironment config element.

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.InvalidOperationException: Memory gates checking failed because the free memory (162050048 bytes) is less than 5% of total memory. As a result, the service will not be available for incoming requests. To resolve this, either reduce the load on the machine or adjust the value of minFreeMemoryPercentageToActivateService on the serviceHostingEnvironment config element.

Source Error:

An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.

Stack Trace:

```
[InsufficientMemoryException: Memory gates checking failed because the free memory (162050048 bytes) is less than 5% of total memory. As a result, the s
System.ServiceModel.Activation.ServiceMemoryGates.Check(Int32 minFreeMemoryPercentage, Boolean throwOnLowMemory, UInt64& availableMemoryBytes) +59739
System.ServiceModel.HostingManager.CheckMemoryCloseIdleServices(EventTraceActivity eventTraceActivity) +96
System.ServiceModel.HostingManager.EnsureServiceAvailable(String normalizedVirtualPath, EventTraceActivity eventTraceActivity) +627

[ServiceActivationException: The service '/WcfDataService1.svc' cannot be activated due to an exception during compilation. The exception message is: Me
System.Runtime.AsyncResult.End(IAsyncResult result) +488839
System.ServiceModel.Activation.HostedHttpRequestAsyncResult.End(IAsyncResult result) +174
System.ServiceModel.Activation.HostedHttpRequestAsyncResult.ExecuteSynchronous(HttpContext context, String routeServiceVirtualPath, Boolean flowCo
System.ServiceModel.Activation.HttpHandler.ProcessRequest(HttpContext context) +25
System.Web.CallHandlerExecutionStep.System.Web.HttpApplication.IExecutionStep.Execute() +188
System.Web.HttpApplication.ExecuteStep(IExecutionStep step, Boolean& completedSynchronously) +69
```

Object Browser

Browse: My Solution

<Search>

- Microsoft.VisualBasic
- microsoft
- OdataTest1
 - OdataTest1
 - Dirs
 - MyArchiveEntities
 - tmp2
 - tmp3
 - VD2VF
 - VirtualDir
 - VirtualFile
 - VirtualVideoFile
 - WcfDataService1
 - OdataTest1.My
 - OdataTest1.My.Resources
- System
- System.Configuration
- System.Core
- System.Data
- System.Data.DataSetExtensions
- System.Data.Entity
- System.Data.Services
- System.Data.Services.Client
- System.Drawing
- System.EnterpriseServices
- System.Runtime.Serialization
- System.Security
- System.ServiceModel
- System.ServiceModel.Web
- System.Web
- System.Web.ApplicationServices
- System.Web.DynamicData
- System.Web.Entity
- System.Web.Extensions
- System.Web.Services
- System.Xml
- System.Xml.Linq

```
MyArchiveDB.edmx WcfDataService1.svc.vb
WcfDataService1 InitializeService
1 Imports System.Data.Services
2 Imports System.Data.Services.Common
3 Imports System.Linq
4 Imports System.ServiceModel.Web
5
6 Public Class WcfDataService1
7     ' TODO: replace [[class name]] with your data class name
```

Add New Item - OdataTest1

Sort by: Default

Search Installed Templates

Visual Basic

- Code
- Data
- General
- Web
- Windows Forms
- Reporting
- Silverlight
- Workflow
- WPF

Online Templates

| Item Name | Type |
|-------------------------------|--------------|
| Class | Visual Basic |
| Master Page | Visual Basic |
| Nested Master Page | Visual Basic |
| HTML Page | Visual Basic |
| Style Sheet | Visual Basic |
| JScript File | Visual Basic |
| AJAX-enabled WCF Service | Visual Basic |
| ASP.NET Handler | Visual Basic |
| ASP.NET Module | Visual Basic |
| ASP.NET Server Control | Visual Basic |
| Authentication Domain Service | Visual Basic |
| Browser File | Visual Basic |
| Domain Service Class | Visual Basic |
| Dynamic Data Field | Visual Basic |
| Generic Handler | Visual Basic |

Name: WCFRIAService1.vb

Add Cancel

Solution Explorer

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 - MyArchiveDB.Designer.vb
 - WcfDataService1.svc
 - WcfDataService1.svc.vb
 - Web.config

Properties

OdataTest1 Project Properties

Always Start When Debugging: **True**

Project File: OdataTest1.vbproj

Project Folder: G:\Projects\All_Test\OdataTest1

Namespace OdataTest1
Member of OdataTest1

Object Browser

Browse: My Solution

<Search>

- Microsoft.VisualBasic
- microsoft
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 - OdataTest1
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- System.Security
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- System.ServiceModel.Web
- System.Web
- System.Web.ApplicationServices
- System.Web.DynamicData
- System.Web.Entity
- System.Web.Extensions
- System.Web.Services
- System.Xml
- System.Xml.Linq

Namespace **OdataTest1**
Member of **OdataTest1**

MyArchiveDB.edmx WcfDataService1.svc.vb

WcfDataService1 InitializeService

```

1 Imports System.Data.Services
2 Imports System.Data.Services.Common
3 Imports System.Linq
4 Imports System.ServiceModel.Web
5
6 Public Class WcfDataService1
7     ' TODO: replace [[class name]] with your data class name
8     Inherits DataService(Of OdataTest1.MyArchiveEntities)
9
10    ' This method is called only once to initialize service-wide policies.
11    Public Shared Sub InitializeService(ByVal config As DataServiceConfiguration)
12        ' TODO: set rules to indicate which entity sets and service operations are visible, updatable
13        ' Examples:
14        ' config.SetEntitySetAccessRule("MyEntityset", EntitySetRights.AllRead)
15        ' config.SetServiceOperationAccessRule("MyServiceOperation", ServiceOperationRights.All)
16        config.DataServiceBehavior.MaxProtocolVersion = DataServiceProtocolVersion.V2
17        config.SetEntitySetAccessRule("*", EntitySetRights.AllRead)
18    End Sub
19
20 End Class
21

```

Add New Domain Service Class

Domain Service class name: WCFRIAService1

Enable client access
 Expose OData endpoint

Available DataContext/ObjectContext classes: MyArchiveEntities (Entity Framework)

| Entities | Enable editing |
|------------------------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> Dirs | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> tmp2 | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> tmp3 | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> VD2VF | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> VirtualDir | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> VirtualFile | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> VirtualVideoFile | <input type="checkbox"/> |

Generate associated classes for metadata

OK Cancel

Solution Explorer

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 - OdataTest1.pdb
 - obj
 - MyArchiveDB.edmx
 - MyArchiveDB.Designer.vb
 - WcfDataService1.svc
 - WcfDataService1.svc.vb
 - Web.config

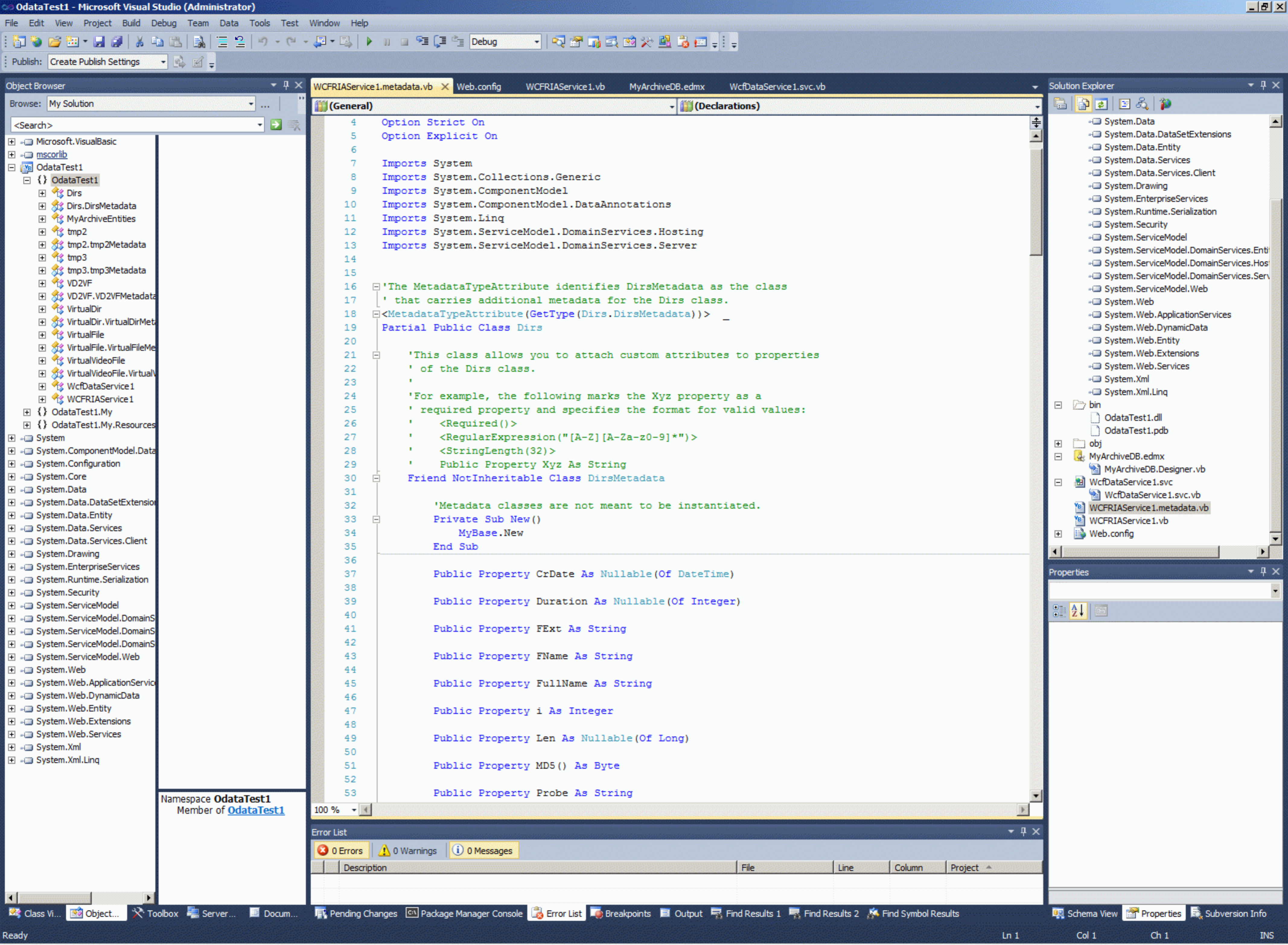
Properties

OdataTest1 Project Properties

Always Start When Debugging: **True**

Project File: OdataTest1.vbproj

Project Folder: G:\Projects\All_Test\OdataTest1



Object Browser

Browse: My Solution

<Search>

- Microsoft.VisualBasic
- microsoft
- OdataTest1
 - OdataTest1
 - Dirs
 - Dirs.DirsMetadata
 - MyArchiveEntities
 - tmp2
 - tmp2.tmp2Metadata
 - tmp3
 - tmp3.tmp3Metadata
 - VD2VF
 - VD2VF.VD2VFMetadata
 - VirtualDir
 - VirtualDir.VirtualDirMeta
 - VirtualFile
 - VirtualFile.VirtualFileMe
 - VirtualVideoFile
 - VirtualVideoFile.VirtualV
 - WcfDataService1
 - WCFRIAService1
 - OdataTest1.My
 - OdataTest1.My.Resources
- System
- System.ComponentModel.Data
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- System.Core
- System.Data
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- System.ServiceModel.DomainS
- System.ServiceModel.DomainS
- System.ServiceModel.Web
- System.Web
- System.Web.ApplicationService
- System.Web.DynamicData
- System.Web.Entity
- System.Web.Extensions
- System.Web.Services
- System.Xml
- System.Xml.Linq

Namespace **OdataTest1**
Member of [OdataTest1](#)

```

4 Option Strict On
5 Option Explicit On
6
7 Imports System
8 Imports System.Collections.Generic
9 Imports System.ComponentModel
10 Imports System.ComponentModel.DataAnnotations
11 Imports System.Linq
12 Imports System.ServiceModel.DomainServices.Hosting
13 Imports System.ServiceModel.DomainServices.Server
14
15
16 'The MetadataTypeAttribute identifies DirsMetadata as the class
17 ' that carries additional metadata for the Dirs class.
18 <MetadataTypeAttribute(GetType(Dirs.DirsMetadata))> _
19 Partial Public Class Dirs
20
21     'This class allows you to attach custom attributes to properties
22     ' of the Dirs class.
23     '
24     'For example, the following marks the Xyz property as a
25     ' required property and specifies the format for valid values:
26     '     <Required()>
27     '     <RegularExpression("[A-Z][A-Za-z0-9]*")>
28     '     <StringLength(32)>
29     '     Public Property Xyz As String
30     Friend NotInheritable Class DirsMetadata
31
32         'Metadata classes are not meant to be instantiated.
33         Private Sub New()
34             MyBase.New
35         End Sub
36
37         Public Property CrDate As Nullable(Of DateTime)
38
39         Public Property Duration As Nullable(Of Integer)
40
41         Public Property FExt As String
42
43         Public Property FName As String
44
45         Public Property FullName As String
46
47         Public Property i As Integer
48
49         Public Property Len As Nullable(Of Long)
50
51         Public Property MD5() As Byte
52
53         Public Property Probe As String

```

Solution Explorer

- System.Data
- System.Data.DataSetExtensions
- System.Data.Entity
- System.Data.Services
- System.Data.Services.Client
- System.Drawing
- System.EnterpriseServices
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- System.ServiceModel.DomainServices.Enti
- System.ServiceModel.DomainServices.Hos
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- Web.config

Properties

0 Errors 0 Warnings 0 Messages

| Description | File | Line | Column | Project |
|-------------|------|------|--------|---------|
| | | | | |

Object Browser

Browse: My Solution

<Search>

- Microsoft.VisualBasic
- mscorlib
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 - OdataTest1
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 - tmp3
 - tmp3.tmp3Metadata
 - VD2VF
 - VD2VF.VD2VFMetadata
 - VirtualDir
 - VirtualDir.VirtualDirMeta
 - VirtualFile
 - VirtualFile.VirtualFileMe
 - VirtualVideoFile
 - VirtualVideoFile.VirtualV
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 - WCFRIAService1
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- System.Data.Services.Client
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- System.ServiceModel.DomainS
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- System.ServiceModel.Web
- System.Web
- System.Web.ApplicationService
- System.Web.DynamicData
- System.Web.Entity
- System.Web.Extensions
- System.Web.Services
- System.Xml
- System.Xml.Linq

Namespace **OdataTest1**
Member of [OdataTest1](#)

WCFRIAService1.metadata.vb Web.config WCFRIAService1.vb MyArchiveDB.edmx WcfDataService1.svc.vb

(General) (Declarations)

```

7 Imports OdataTest1
8 Imports System
9 Imports System.Collections.Generic
10 Imports System.ComponentModel
11 Imports System.ComponentModel.DataAnnotations
12 Imports System.Data
13 Imports System.Linq
14 Imports System.ServiceModel.DomainServices.EntityFramework
15 Imports System.ServiceModel.DomainServices.Hosting
16 Imports System.ServiceModel.DomainServices.Server
17
18
19 'Implements application logic using the MyArchiveEntities context.
20 ' TODO: Add your application logic to these methods or in additional methods.
21 ' TODO: Wire up authentication (Windows/ASP.NET Forms) and uncomment the following to disable anonymous
22 ' Also consider adding roles to restrict access as appropriate.
23 '<RequiresAuthentication> _
24 <EnableClientAccess()> _
25 Public Class WCFRIAService1
26     Inherits LinqToEntitiesDomainService(Of MyArchiveEntities)
27
28     'TODO:
29     ' Consider constraining the results of your query method. If you need additional input you can
30     ' add parameters to this method or create additional query methods with different names.
31     'To support paging you will need to add ordering to the 'Dirs' query.
32     Public Function GetDirs() As IQueryable(Of Dirs)
33         Return Me.ObjectContext.Dirs
34     End Function
35
36     'TODO:
37     ' Consider constraining the results of your query method. If you need additional input you can
38     ' add parameters to this method or create additional query methods with different names.
39     'To support paging you will need to add ordering to the 'tmp2' query.
40     Public Function GetTmp2() As IQueryable(Of tmp2)
41         Return Me.ObjectContext.tmp2
42     End Function
43
44     'TODO:
45     ' Consider constraining the results of your query method. If you need additional input you can
46     ' add parameters to this method or create additional query methods with different names.
47     'To support paging you will need to add ordering to the 'tmp3' query.
48     Public Function GetTmp3() As IQueryable(Of tmp3)
49         Return Me.ObjectContext.tmp3
50     End Function
51
52     'TODO:
53     ' Consider constraining the results of your query method. If you need additional input you can
54     ' add parameters to this method or create additional query methods with different names.
55     'To support paging you will need to add ordering to the 'VD2VF' query.
56     Public Function GetVD2VF() As IQueryable(Of VD2VF)

```

100 %

Error List

0 Errors 0 Warnings 0 Messages

| Description | File | Line | Column | Project |
|-------------|------|------|--------|---------|
|-------------|------|------|--------|---------|

Solution Explorer

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- WCFRIAService1.vb
- Web.config

Properties

Version 1.07 is released

OData Validation Tool

The goal with this tool is to enable OData service authors ensure that their service interoperates well with any OData client. Consumers of the OData protocol can also benefit from this tool by testing OData service implementations that they are building an experience for to pinpoint potential issues.

Getting Started!

[Follow @odataorg](#)

[Tweet #ODataValidationTool](#)

Run into the OData Validation Tool!

OData Service Validation Tool is a member of the Data, Languages, and Systems Interoperability Gallery in the [Outercurve Foundation](#) (see the [press release](#)).

The tool can currently validate the following types of OData endpoints:

- Service document (e.g. <http://services.odata.org/V4/TripPinServiceRW>)
- Metadata document (e.g. [http://services.odata.org/V4/TripPinServiceRW/\\$metadata](http://services.odata.org/V4/TripPinServiceRW/$metadata))
- A feed / collection (e.g. <http://services.odata.org/V4/TripPinServiceRW/People>)
- An Entry (e.g. [http://services.odata.org/V4/TripPinServiceRW/People\('russellwhyte'\)](http://services.odata.org/V4/TripPinServiceRW/People('russellwhyte')))

To know more about how to use OData Validation Tool, please click [Help](#).

[Open Source](#)
[Professional](#)
[Downloads](#)

- [SoapUI NG Pro](#)
- [SoapUI Open Source](#)
- [Latest Releases](#)
- [Maintenance Builds](#)
- [LoadUI NG Pro](#)
- [Secure Pro](#)
- [ServiceV Pro](#)
- [TestServer](#)
- [AlertSite](#)

[Getting started](#)
[Tutorials](#)
[Documentation](#)
[Store](#)
[Support](#)
[Community](#)
[Training](#)
[Resources](#)
[SoapUI News](#)

API Testing Downloads

With an improved interface and feature set, you can immediately switch to SoapUI NG Pro and pick up right where you left off in SoapUI. It's as seamless as it can get!

SoapUI OpenSource

Get the open source version of the most widely used API testing tool in the world.

[Get It](#)
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SoapUI NG Pro

Get the most advanced functional testing tool for REST and SOAP APIs.

[Try It](#)
[Learn More](#)

General Features

| | | |
|--------------------------------------------|---|---|
| SOA Web Services Functional Testing | ✓ | ✓ |
| REST API Functional Testing | ✓ | ✓ |
| REST Discovery | | ✓ |
| Point and Click Test Creation | | ✓ |
| WSDL Coverage | ✓ | ✓ |
| Message Assertion Testing | ✓ | ✓ |
| Test Refactoring | ✓ | ✓ |
| Multi Environment Support | | ✓ |
| Code Generation | | ✓ |

Reporting

| | | |
|---------------------------|--|---|
| Report Exports | | ✓ |
| JUnit Reports | | ✓ |
| TestSuite Coverage | | ✓ |
| TestCase Coverage | | ✓ |
| Message Recording | | ✓ |

Support


| | | |
|---------------------------------------------|---|---|
| Largest Online API Testing Community | ✓ | ✓ |
| Email Support | | ✓ |

Add Your API


PublicAPIs

Powered By Kong API Layer


Explore The Largest API Directory In The Galaxy

- 


SkyBiometry Face Detection and Recognition

An easy to use Face Detection
- 


Burst SMS NZ

Our powerful web API allows you to build apps that can send and receive SMS. Use standard web
- 


Burst SMS UK

Our powerful web API allows you to build apps that can send and receive SMS. Use standard web
- 


Burst SMS Singapore

Our powerful web API allows you to build apps that can send and receive SMS. Use standard web
- 


Burst SMS Australia

Our powerful web API allows you to build apps that can send and receive SMS. Use standard web
- 


Burst SMS US

Our powerful web API allows you to build apps that can send and receive SMS. Use standard web
- 


RASON Analytics API

RASON is a mini-language, embedded in JSON, you can use to quickly and easily create and
- 


Wikidata

Wikidata is a free linked database that can be read and edited by both humans and
- 

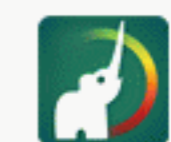
getQuote

The getQuote API is used to request price data, either real-time, delayed or end-of-day.
- 

getChart

The getChart API is used to request a custom chart image with variables such as chart
- 

getHistory

The getHistory API is used to request historical time series data on stocks, indices, mutual
- 

BreezoMeter

The most advanced, real time, location based air quality API. This is the same API we use to

Reference Services

- OData v4**
- OData v3
- OData v2

| Name | Description |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TripPin(read/write) | This OData V4 sample service is built with Restier which is a turn-key library for building RESTful services, it covers most V4 features and its source code is located at this link . |

Basic Usages

[▶ Run in Postman](#)

For usage of advanced scenarios, please refer to [Trippin Advanced Usages](#).

Requesting Data

Requesting EntitySet

```
GET http://services.odata.org/TripPinRESTierService/People
```

Requesting Single Entity by ID

```
GET http://services.odata.org/TripPinRESTierService/People('russellwhyte')
```

Requesting Single Property Value

```
GET http://services.odata.org/TripPinRESTierService/Airports('KSFO')/Name
```

```
GET http://services.odata.org/TripPinRESTierService/Airports('KSFO')/Location/Address
```

Requesting a Single Primitive or Enum Type Property Raw Value

```
GET http://services.odata.org/TripPinRESTierService/Airports('KSFO')/Name/$value
```

```
GET http://services.odata.org/TripPinRESTierService/People('russellwhyte')/Gender/$value
```

Requesting Complex Property

```
GET http://services.odata.org/TripPinRESTierService/Airports('KSFO')/Location
```

Requesting Collection of Complex Property

```
GET http://services.odata.org/TripPinRESTierService/People('russellwhyte')/AddressInfo
```

Projects

- REST Project 1
 - http://services.odata.org
 - \$metadata [V3/OData/OData.svc/\$metadata]
 - GET \$metadata
 - Request 1

SoapUI Starter Page

Request 1

Method: GET Endpoint: http://services.odata.org Resource: /V3/OData/OData.svc/\$metadata

| Name | Value | Style | Level |
|---------|-------|-------|-------|
| Request | | | |
| Raw | | | |

```

<?xml version="1.0" encoding="utf-8" standalone="no" ?>
<edmx:Edmx Version="1.0" xmlns:edmx="http://schemas.microsoft.com/ado/2007/06/edmx">
  <edmx:DataServices m:DataServiceVersion="3.0" m:MaxDataServiceVersion="3.0" xmlns:m="http://schemas.microsoft.com/ado/2007/08/edmx">
    <Schema Namespace="ODataDemo" xmlns="http://schemas.microsoft.com/ado/2009/11/edm">
      <EntityType Name="Product">
        <Key>
          <PropertyRef Name="ID"/>
        </Key>
        <Property Name="ID" Type="Edm.Int32" Nullable="false"/>
        <Property Name="Name" Type="Edm.String" m:FC_TargetPath="SyndicationTitle" m:FC_ContentKind="text" m:FC_KeepInContent="false" m:FC_MaxLength="1000" m:FC_Type="Text"/>
        <Property Name="Description" Type="Edm.String" m:FC_TargetPath="SyndicationSummary" m:FC_ContentKind="text" m:FC_KeepInContent="false" m:FC_MaxLength="1000" m:FC_Type="Text"/>
        <Property Name="ReleaseDate" Type="Edm.DateTime" Nullable="false"/>
        <Property Name="DiscontinuedDate" Type="Edm.DateTime"/>
        <Property Name="Rating" Type="Edm.Int16" Nullable="false"/>
        <Property Name="Price" Type="Edm.Double" Nullable="false"/>
        <NavigationProperty Name="Categories" Relationship="ODataDemo.Product_Categories_Category_Products" ToRole="Category_Products"/>
        <NavigationProperty Name="Supplier" Relationship="ODataDemo.Product_Supplier_Supplier_Products" ToRole="Supplier_Products"/>
        <NavigationProperty Name="ProductDetail" Relationship="ODataDemo.Product_ProductDetail_ProductDetail_Product" ToRole="Product_ProductDetail_Product"/>
      </EntityType>
      <EntityType Name="FeaturedProduct" BaseType="ODataDemo.Product">
        <NavigationProperty Name="Advertisement" Relationship="ODataDemo.FeaturedProduct_Advertisement_Advertisement_FeaturedProduct" ToRole="FeaturedProduct_Advertisement_FeaturedProduct"/>
      </EntityType>
      <EntityType Name="ProductDetail">
        <Key>
          <PropertyRef Name="ProductID"/>
        </Key>
        <Property Name="ProductID" Type="Edm.Int32" Nullable="false"/>
        <Property Name="Details" Type="Edm.String"/>
        <NavigationProperty Name="Product" Relationship="ODataDemo.Product_ProductDetail_ProductDetail_Product" ToRole="Product_ProductDetail_Product"/>
      </EntityType>
      <EntityType Name="Category" OpenType="true">
        <Key>
          <PropertyRef Name="ID"/>
        </Key>
        <Property Name="ID" Type="Edm.Int32" Nullable="false"/>
        <Property Name="Name" Type="Edm.String" m:FC_TargetPath="SyndicationTitle" m:FC_ContentKind="text" m:FC_KeepInContent="false" m:FC_MaxLength="1000" m:FC_Type="Text"/>
        <NavigationProperty Name="Products" Relationship="ODataDemo.Product_Categories_Category_Products" ToRole="Product_Category_Products"/>
      </EntityType>
      <EntityType Name="Supplier">
        <Key>
          <PropertyRef Name="ID"/>
        </Key>
        <Property Name="ID" Type="Edm.Int32" Nullable="false"/>
        <Property Name="Name" Type="Edm.String" m:FC_TargetPath="SyndicationTitle" m:FC_ContentKind="text" m:FC_KeepInContent="false" m:FC_MaxLength="1000" m:FC_Type="Text"/>
        <Property Name="Address" Type="ODataDemo.Address"/>
        <Property Name="Location" Type="Edm.GeographyPoint" SRID="Variable"/>
        <Property Name="Concurrency" Type="Edm.Int32" ConcurrencyMode="Fixed" Nullable="false"/>
        <NavigationProperty Name="Products" Relationship="ODataDemo.Product_Supplier_Supplier_Products" ToRole="Product_Supplier_Products"/>
      </EntityType>
      <ComplexType Name="Address">
        <Property Name="Street" Type="Edm.String"/>
        <Property Name="City" Type="Edm.String"/>
        <Property Name="State" Type="Edm.String"/>
        <Property Name="ZipCode" Type="Edm.String"/>
        <Property Name="Country" Type="Edm.String"/>
      </ComplexType>
      <EntityType Name="Person">
        <Key>
          <PropertyRef Name="ID"/>
        </Key>
    </Schema>
  </DataServices>
</Edmx>

```

response time: 749ms (10034 bytes)

Headers (15) Attachments (0) SSL Info Representations (1) Schema (conflicts) JMS (0)

New REST Project

Creates a new REST Project in this workspace

URI:

OK Cancel Import WADL...

Project Properties Custom Properties

| Property | Value |
|-------------------|----------------------------|
| Name | REST Project 1 |
| Description | |
| File | |
| Resource Root | |
| Cache Definitions | true |
| Project Password | |
| Script Language | Groovy |
| Hermes Config | \${#System#user.home}\h... |

Required: Sets if parameter is required

Type:

Options:

Description:

Disable Encoding: Disables URL-Encoding of the parameter

OData API Explorer (JSON) beta version

Select Data Source

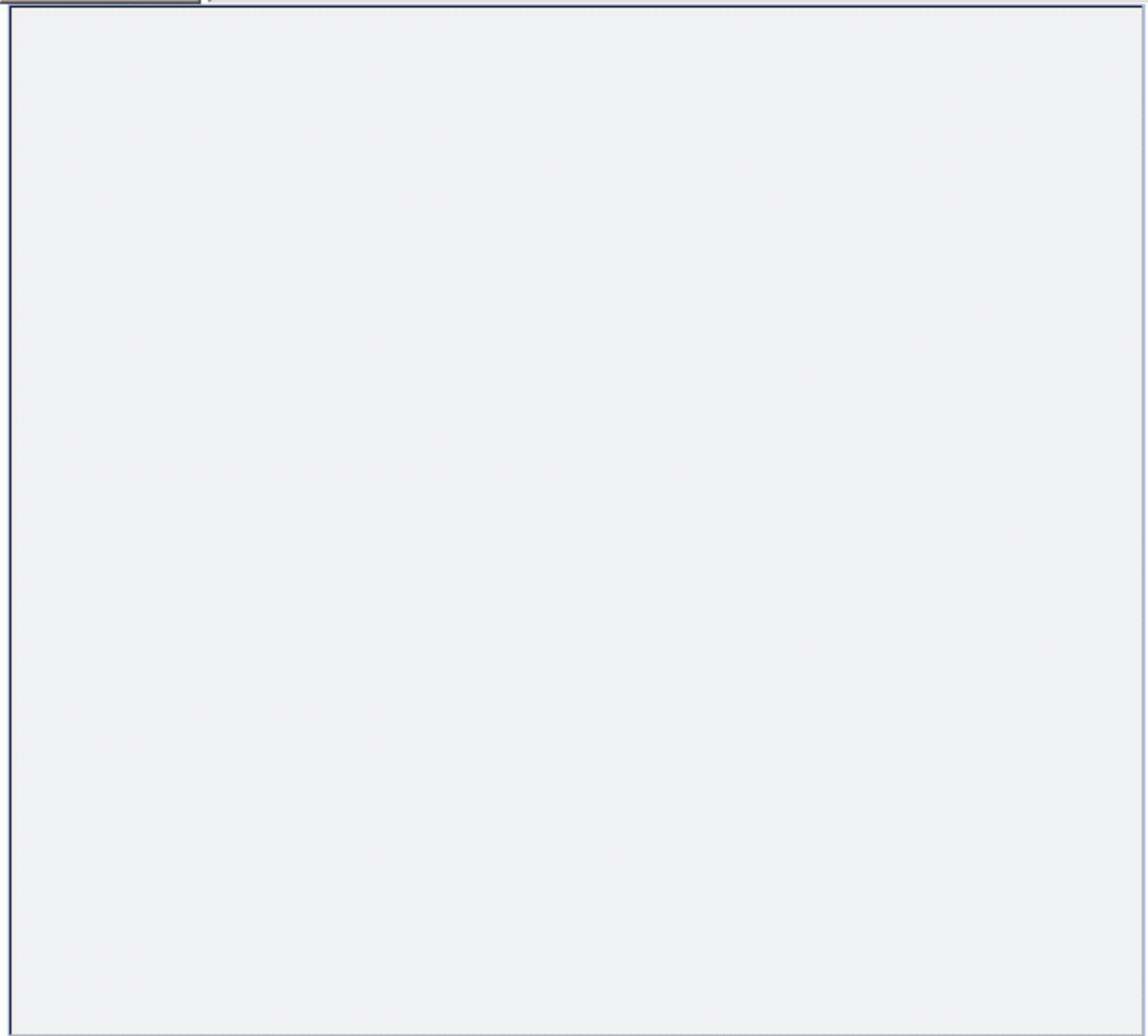
OData V3 Sample Service Metadata URL (cross domain metadata calls will fail):

Get Metadata

Minimal metadata (default) No metadata full metadata

- SELECT EntitySet
- SELECT EntitySet
- Products
- ProductDetails
- Categories
- Suppliers
- Persons
- PersonDetails
- Advertisements

Execute Query



[Add connection](#)
217.65.5.178.Gruveo.Gruveo

My Queries | Samples
[Set Folder...](#) [Organize...](#) [Go to...](#)

- My Queries
- My Extensions

Language: C# Expression Connection: <None>

Choose Data Context

Build data context automatically

| LINQPad Driver | Version | Author |
|----------------------------------------|------------|---------------|
| Default (LINQ to SQL) | (built-in) | (built in) |
| WCF Data Services 5.5 (OData 3) | (built-in) | (built in) |
| Microsoft DataMarket Service | (built-in) | (built in) |
| MongoLP - Dynamic LinqPad Driver | 1.0.0.0 | Paul Saunders |

Delete Driver

Use a typed data context from your own assembly

| LINQPad Driver | Version | Author |
|----------------------------------|------------|------------|
| LINQ to SQL | (built-in) | (built in) |
| Entity Framework (DbContext) | (built-in) | (built in) |
| Entity Framework (ObjectContext) | (built-in) | (built in) |

Delete Driver

[View more drivers...](#)

Next > Cancel

Add connection
217.65.5.178.Gruveo.Gruveo

My Queries Samples
Set Folder... Organize... Go to...
My Queries
My Extensions

Language C# Expression Connection <None>

Connection Successful!

URI
http://services.odata.org/V3/OData/OData.svc
[Web Proxy Setup...](#)

Log on details
User name
Password

Formatter
 Default (XML) JSON

[Custom Headers...](#)

Remember this connection Contains production data

Advanced... Test OK Cancel

LINQPad 4

File Edit Query Debug

Query 1 Query 2* Query 3 +

Language C# Expression Connection http://services.odata.org/V3/OData/OData.svc

Advertisements.Take (100)

Results Request Log

Format Export Activate Autocompletion

| ID | Name | AirDate | FeaturedProduct |
|--------------------------------------|----------------------------------------|--------------------|-----------------|
| db2d2186-1c29-4d1e-88ef-a127f521b9c6 | Early morning start, need coffee | 29.02.2000 0:00:00 | null |
| f89dee73-af9f-4cd4-b330-db93c25ff3c7 | Old School Lemonade Store, Retro Style | 07.11.2012 0:00:00 | null |

Telerik Fiddler Web Debugger

File Edit Rules Tools View Help GET /book GeoEdge

Replay Go Stream Decode Keep: All sessions Any Process Find Save Browse Clear Cache TextWizard Tearoff MSDN Search... Online

| # | Result | Protocol | Host | URL |
|---|--------|----------|--------------------|-------------------------|
| 1 | 200 | HTTPS | www.telerik.com | /UpdateCheck.aspx?isBet |
| 2 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 3 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 4 | 200 | HTTP | Tunnel to | plus.google.com:443 |

Statistics Inspectors AutoResponder Composer Log Filters Timeline APITest

Headers TextView WebForms HexView Auth Cookies Raw JSON XML

```

GET http://services.odata.org/V3/OData/OData.svc/Advertisements()?&top=100 HTTP/1.1
DataServiceVersion: 1.0;NetFX
MaxDataServiceVersion: 3.0;NetFX
Accept: application/json;odata=minimalmetadata
Accept-Charset: UTF-8
User-Agent: Microsoft ADO.NET Data Services
Host: services.odata.org
  
```

Find... (press Ctrl+Enter to highlight all) View in Notepad

Get SyntaxView Transformer Headers **TextView** ImageView HexView WebView Auth Caching Cookies Raw JSON XML

```

{"odata.metadata":"http://services.odata.org/V3/OData/OData.svc/$metadata#Advertisements","value":[{"odata.mediaReadLink":"Advertisements(guid'db2d2186-1c29-4d1e-88ef-a127f521b9c6')/$value","odata.mediaContentType":"","ID":"db2d2186-1c29-4d1e-88ef-a127f521b9c6","Name":"Early moming start, need coffee","AirDate":"2000-02-29T00:00:00"}, {"odata.mediaReadLink":"Advertisements(guid'f89dee73-af9f-4cd4-b330-db93c25ff3c7')/$value","odata.mediaContentType":"","odata.mediaETag":"\\"8z0OKKvgOptr4gt8lmapX3jds=\\"","ID":"f89dee73-af9f-4cd4-b330-db93c25ff3c7","Name":"Old School Lemonade Store, Retro Style","AirDate":"2012-11-07T00:00:00"}]}
  
```

0:0 0/641 Find... (press Ctrl+Enter to highlight all) View in Notepad

[QuickExec] ALT+Q > type HELP to learn more

Capturing All Processes 1 / 4 http://services.odata.org/V3/OData/OData.svc/Advertisements()?&top=100

Query successful (00:00.239)

PID=7356 /o-

LINQPad 4

File Edit Query Debug

Query 1 | Query 2* | Query 3 | +

Language C# Expression | Connection http://services.odata.org/V3/OData/OData.svc

Advertisements.Take (100)

Results | Request Log | IL

```

IL_0000: nop
IL_0001: ldarg.0
IL_0002: call LINQPad.User.DemoService.get_Advertisements
IL_0007: ldc.i4.s 64
IL_0009: call System.Linq.Queryable.Take
IL_000E: call LINQPad.Extensions.Dump
IL_0013: pop
IL_0014: ret
  
```

Activate premium features

Use http://services.odat...

Activate Autocompletion

Telerik Fiddler Web Debugger

File Edit Rules Tools View Help GET /book GeoEdge

Replay | Go | Stream | Decode | Keep: All sessions | Any Process | Find | Save | Browse | Clear Cache | TextWizard | Tearoff | MSDN Search... | Online

| # | Result | Protocol | Host | URL |
|---|--------|----------|--------------------|-------------------------|
| 1 | 200 | HTTPS | www.telerik.com | /UpdateCheck.aspx?isBet |
| 2 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 3 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 4 | 200 | HTTP | Tunnel to | plus.google.com:443 |

Statistics | Inspectors | AutoResponder | Composer | Log | Filters | Timeline | APITest

Headers | TextView | WebForms | HexView | Auth | Cookies | Raw | JSON | XML

```

GET http://services.odata.org/V3/OData/OData.svc/Advertisements()?top=100 HTTP/1.1
DataServiceVersion: 1.0;NetFx
MaxDataServiceVersion: 3.0;NetFx
Accept: application/json;odata=minimalmetadata
Accept-Charset: UTF-8
User-Agent: Microsoft ADO.NET Data Services
Host: services.odata.org
  
```

Find... (press Ctrl+Enter to highlight all) | View in Notepad

Get SyntaxView | Transformer | Headers | TextView | ImageView | HexView | WebView | Auth | Caching | Cookies | Raw | JSON | XML

```

{
  "odata.metadata": "http://services.odata.org/V3/OData/OData.svc/$metadata#Advertisements",
  "value": [
    {
      "AirDate": "2000-02-29T00:00:00",
      "ID": "db2d2186-1c29-4d1e-88ef-a127f521b9c6",
      "Name": "Early morning start, need coffee",
      "odata.mediaContentType": "*",
      "odata.mediaReadLink": "Advertisements(guid'db2d2186-1c29-4d1e-88ef-a127f521b9c6')/$value"
    },
    {
      "AirDate": "2012-11-07T00:00:00",
      "ID": "f89dee73-af9f-4cd4-b330-db93c25ff3c7",
      "Name": "Old School Lemonade Store, Retro Style",
      "odata.mediaContentType": "*",
      "odata.mediaETag": "\"8zO0KKvgOptr4gt8Irnax3jds\"",
      "odata.mediaReadLink": "Advertisements(guid'f89dee73-af9f-4cd4-b330-db93c25ff3c7')/$value"
    }
  ]
}
  
```

Expand All | Collapse | JSON parsing completed.

[QuickExec] ALT+Q > type HELP to learn more

Capturing | All Processes | 1 / 4 | http://services.odata.org/V3/OData/OData.svc/Advertisements()?top=100

Query successful (00:00.239)

PID=7356 /o-

| # | Result | Protocol | Host | URL |
|---|--------|----------|-------------------------------|-------------------------|
| 1 | 200 | HTTPS | www.telerik.com | /UpdateCheck.aspx?isBet |
| 2 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 3 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 4 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 5 | 200 | HTTP | Tunnel to plus.google.com:443 | |

Statistics Inspectors AutoResponder Composer Log Filters Timeline APITest

Headers | TextView | WebForms | HexView | Auth | Cookies | Raw | JSON | XML

A SSLv3-compatible ClientHello handshake was found. Fiddler extracted the parameters below.

Version: 3.3 (TLS/1.2)
 Random: A2 A7 0E 06 78 23 1D 4A 76 A5 A9 E5 18 EC 45 7C 53 E8 84 51 A3 77 67 A1 A3 E9 C9 66 DB BD AB DC
 "Time": 22.03.1973 6:48:34
 SessionID: empty
 Extensions:
 server_name plus.google.com
 extended_master_secret empty
 renegotiation_info 00
 elliptic_curves secp256r1 [0x17], secp384r1 [0x18], secp521r1 [0x19]
 ec_point_formats uncompressed [0x0]
 SessionTicket empty
 NextProtocolNego empty
 ALPN h2, http/1.1
 status_request OCSP - Implicit Responder
 signature_algs sha256_rsa, sha384_rsa, sha512_rsa, sha1_rsa, sha256_ecdsa, sha384_ecdsa, sha512_ecdsa, sha1_ecdsa, sha384_dsa, sha256_dsa, sha1_dsa

Ciphers:
 [C02B] TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256
 [C02F] TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256
 [CCA9] TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256
 [CCA8] TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256
 [C02C] TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384
 [C030] TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
 [C00A] TLS1_CK_ECDHE_ECDSA_WITH_AES_256_CBC_SHA
 [C009] TLS1_CK_ECDHE_ECDSA_WITH_AES_128_CBC_SHA
 [C013] TLS1_CK_ECDHE_RSA_WITH_AES_128_CBC_SHA
 [C014] TLS1_CK_ECDHE_RSA_WITH_AES_256_CBC_SHA
 [0033] TLS_DHE_RSA_WITH_AES_128_SHA
 [0039] TLS_DHE_RSA_WITH_AES_256_SHA
 [002F] TLS_RSA_AES_128_SHA
 [0035] TLS_RSA_AES_256_SHA
 [000A] SSL_RSA_WITH_3DES_EDE_SHA

Compression:
 [00] NO_COMPRESSION

0:0 0/1 420 Find... (press Ctrl+Enter to highlight all) View in Notepad ...

Get SyntaxView Transformer Headers | TextView | ImageView | HexView | WebView | Auth | Caching | Cookies | Raw | JSON | XML

Encrypted HTTPS traffic flows through this CONNECT tunnel. HTTPS Decryption is enabled in Fiddler, so decrypted sessions running in this tunnel will be shown in the Web Sessions list.

Secure Protocol: Tls
 Cipher: Aes 128bits
 Hash Algorithm: Sha1 160bits
 Key Exchange: ECDHE_RSA (0xae06) 256bits

== Server Certificate ==
 [Subject]
 CN=*.google.com, O=Google Inc, L=Mountain View, S=California, C=US

[Issuer]
 CN=Google Internet Authority G2, O=Google Inc, C=US

[Serial Number]
 2B6A38B0BECA1D08

[Not Before]
 15.12.2016 16:04:15

[Not After]
 09.03.2017 15:35:00

[Thumbprint]
 132C74E3CB4D308F4C18422EDC8C9592E7E6B5A0

[SubjectAltNames]
 *.google.com, *.android.com, *.appengine.google.com, *.cloud.google.com, *.google-analytics.com, *.google.ca, *.google.cl, *.google.co.in, *.google.co.jp, *.google.co.uk, *.google.com.ar, *.google.com.au, *.google.com.br, *.google.com.co, *.google.com.mx, *.google.com.tr, *.google.com.vn, *.google.de, *.google.es, *.google.fr, *.google.hu, *.google.it, *.google.nl, *.google.pl, *.google.pt, *.googleadapis.com, *.googleapis.cn, *.googlecommerce.com, *.googlevideo.com, *.gstatic.cn, *.gstatic.com, *.gvt1.com, *.gvt2.com, *.metric.gstatic.com, *.urchin.com, *.url.google.com, *.youtube-nocookie.com, *.youtube.com, *.youtubeeducation.com, *.yimg.com, android.clients.google.com, android.com, developer.android.google.cn, g.co, goo.gl, google-analytics.com, google.com, googlecommerce.com, urchin.com, www.goo.gl, you.be, youtube.com, youtubeeducation.com

15:0 490/1 517 18 Find... (press Ctrl+Enter to highlight all) View in Notepad ...

| # | Result | Protocol | Host | URL |
|----|--------|----------|-------------------------------------|-------------------------|
| 1 | 200 | HTTPS | www.telerik.com | /UpdateCheck.aspx?isBet |
| 2 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 3 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 4 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 5 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 6 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 7 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:443 | |
| 8 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 9 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 10 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 11 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |

Statistics Inspectors AutoResponder Composer Log Filters Timeline APITest

Headers TextView WebForms HexView Auth Cookies Raw JSON XML

A SSLv3-compatible ClientHello handshake was found. Fiddler extracted the parameters below.

Version: 3.1 (TLS/1.0)
 Random: 58 69 8D BC B0 0A 27 6B E6 BD 6E 35 D3 95 67 91 0B FB 8C FA A5 EE 1F 67 82 D1 27 CA CE 6C AF 77
 "Time": 30.03.2070 8:49:12
 SessionID: empty
 Extensions:
 server_name blu406-m.hotmail.com
 elliptic_curves secp256r1 [0x17], secp384r1 [0x18], secp521r1 [0x19]
 ec_point_formats uncompressed [0x0]
 extended_master_secret empty
 renegotiation_info 00

Ciphers:
 [002F] TLS_RSA_AES_128_SHA
 [0035] TLS_RSA_AES_256_SHA
 [0005] SSL_RSA_WITH_RC4_128_SHA
 [000A] SSL_RSA_WITH_3DES_EDE_SHA
 [C009] TLS1_CK_ECDHE_ECDSA_WITH_AES_128_CBC_SHA
 [C00A] TLS1_CK_ECDHE_ECDSA_WITH_AES_256_CBC_SHA
 [C013] TLS1_CK_ECDHE_RSA_WITH_AES_128_CBC_SHA
 [C014] TLS1_CK_ECDHE_RSA_WITH_AES_256_CBC_SHA
 [0032] TLS_DHE_DSS_WITH_AES_128_SHA
 [0038] TLS_DHE_DSS_WITH_AES_256_SHA
 [0013] SSL_DHE_DSS_WITH_3DES_EDE_SHA
 [0004] SSL_RSA_WITH_RC4_128_MD5

Compression:
 [00] NO_COMPRESSION

0:0 0/979 Find... (press Ctrl+Enter to highlight all) View in Notepad ...

Get SyntaxView Transformer Headers TextView ImageView HexView WebView Auth Caching Cookies Raw JSON XML

Encrypted HTTPS traffic flows through this CONNECT tunnel. HTTPS Decryption is enabled in Fiddler, so decrypted sessions running in this tunnel will be shown in the Web Sessions list.

Secure Protocol: Tls
 Cipher: Aes 256bits
 Hash Algorithm: Sha1 160bits
 Key Exchange: ECDHE_RSA (0xae06) 384bits

== Server Certificate ==
 [Subject]
 CN=*.hotmail.com, O=Microsoft Corporation, L=Redmond, S=Washington, C=US

[Issuer]
 CN=GlobalSign Organization Validation CA - SHA256 - G2, O=GlobalSign nv-sa, C=BE

[Serial Number]
 5B83A40A08E78A911C9DE16A

[Not Before]
 07.11.2016 18:46:07

[Not After]
 16.01.2019 0:26:11

[Thumbprint]
 D6FE67C710F4EF76867402B27130CE322B54B1E4

[SubjectAltNames]
 *.hotmail.com, *.live.com, *.outlook.com, hotmail.com

15:0 525/752 26 Find... (press Ctrl+Enter to highlight all) View in Notepad ...

| # | Result | Protocol | Host | URL |
|----|--------|----------|-------------------------------------|-------------------------|
| 1 | 200 | HTTPS | www.telerik.com | /UpdateCheck.aspx?isBet |
| 2 | 200 | HTTP | services.odata.org | /N3/OData/OData.svc/Ad |
| 3 | 200 | HTTP | services.odata.org | /N3/OData/OData.svc/Ad |
| 4 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 5 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 6 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 7 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |
| 8 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 9 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 10 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 11 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 12 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |
| 13 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 14 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |

Statistics Inspectors AutoResponder Composer Log Filters Timeline APITest

Headers | **TextView** | WebForms | HexView | Auth | Cookies | Raw | JSON | XML

A SSLv3-compatible ClientHello handshake was found. Fiddler extracted the parameters below.

Version: 3.3 (TLS/1.2)
 Random: 17 42 F8 AE 8F A4 F8 46 32 B3 94 A1 D5 2A 35 6B 2E 82 86 AE D4 36 61 A4 E8 A5 7C 7B 8E BA 09 9E
 "Time": 08.01.2063 20:10:31
 SessionID: empty
 Extensions:

```

server_name      www.youtube.com
extended_master_secret  empty
renegotiation_info  00
elliptic_curves    secp256r1 [0x17], secp384r1 [0x18], secp521r1 [0x19]
ec_point_formats   uncompressed [0x0]
SessionTicket      empty
NextProtocolNego   empty
ALPN                h2, http/1.1
status_request     OCSP - Implicit Responder
signature_algs     sha256_rsa, sha384_rsa, sha512_rsa, sha1_rsa, sha256_ecdsa, sha384_ecdsa, sha512_ecdsa, sha1_ecdsa, sha384_dsa, sha256_dsa, sha1_dsa
  
```

Ciphers:

```

[C02B] TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256
[C02F] TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256
[CCA9] TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256
[CCA8] TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256
[C02C] TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384
[C030] TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
[C00A] TLS1_256_GCM_SHA384
[C009] TLS1_256_GCM_SHA384
[C013] TLS1_256_GCM_SHA384
[C014] TLS1_256_GCM_SHA384
[0033] TLS_DHE_RSA_WITH_AES_128_SHA
[0039] TLS_DHE_RSA_WITH_AES_256_SHA
[002F] TLS_RSA_AES_128_SHA
[0035] TLS_RSA_AES_256_SHA
[000A] SSL_RSA_WITH_3DES_EDE_SHA
  
```

Compression:
 [00] NO_COMPRESSION

0:0 0/1 421 Find... (press Ctrl+Enter to highlight all) View in Notepad ...

Get SyntaxView Transformer Headers **TextView** ImageView HexView WebView Auth Caching Cookies Raw JSON XML

Encrypted HTTPS traffic flows through this CONNECT tunnel. HTTPS Decryption is enabled in Fiddler, so decrypted sessions running in this tunnel will be shown in the Web Sessions list.

Secure Protocol: Tls
 Cipher: Aes 128bits
 Hash Algorithm: Sha1 160bits
 Key Exchange: ECDHE_RSA (0xae06) 256bits

== Server Certificate ==
 [Subject]
 CN=*.google.com, O=Google Inc, L=Mountain View, S=California, C=US

[Issuer]
 CN=Google Internet Authority G2, O=Google Inc, C=US

[Serial Number]
 2B6A38B0BECA1D08

[Not Before]
 15.12.2016 16:04:15

[Not After]
 09.03.2017 15:35:00

[Thumbprint]
 132C74E3CB4D308F4C18422EDC8C9592E7E6B5A0

[SubjectAltNames]
 *.google.com, *.android.com, *.appengine.google.com, *.cloud.google.com, *.google-analytics.com, *.google.ca, *.google.cl, *.google.co.in, *.google.co.jp, *.google.co.uk, *.google.com.ar, *.google.com.au, *.google.com.br, *.google.com.co, *.google.com.mx, *.google.com.tr, *.google.com.vn, *.google.de, *.google.es, *.google.fr, *.google.hu, *.google.it, *.google.nl, *.google.pl, *.google.pt, *.googleadapis.com, *.googleapis.cn, *.googlecommerce.com, *.googlevideo.com, *.gstatic.cn, *.gstatic.com, *.gvt1.com, *.gvt2.com, *.metric.gstatic.com, *.urchin.com, *.url.google.com, *.youtube-nocookie.com, *.youtube.com, *.youtubeeducation.com, *.yimg.com, android.clients.google.com, android.com, developer.android.google.cn, *.goo.gl, *.google-analytics.com, *.google.com, *.googlecommerce.com, *.urchin.com, *.www.goo.gl, *.youtu.be, *.youtube.com, *.youtubeeducation.com

0:0 0/1 517 Find... (press Ctrl+Enter to highlight all) View in Notepad ...

Navigator

- Projects
 - REST Project 1
 - http://services.odata.org
 - \$metadata [V3/OData/OData.svc]
 - GET \$metadata
 - Request 1

Request 1

Method: GET Endpoint: http://services.odata.org Resource: /V3/OData/OData.svc Parameters:

Request

| Name | Value | Style | Level |
|------|-------|-------|-------|
| | | | |

Raw XML

```

<service xml:base="http://services.odata.org/V3/OData/OData.svc/" xmlns="http://www.w3.org/2007/app" xmlns:atom="http://www.w3.org/2005/Atom">
  <workspace>
    <atom:title>Default</atom:title>
    <collection href="Products">
      <atom:title>Products</atom:title>
    </collection>
    <collection href="ProductDetails">
      <atom:title>ProductDetails</atom:title>
    </collection>
    <collection href="Categories">
      <atom:title>Categories</atom:title>
    </collection>
    <collection href="Suppliers">
      <atom:title>Suppliers</atom:title>
    </collection>
    <collection href="Persons">
      <atom:title>Persons</atom:title>
    </collection>
    <collection href="PersonDetails">
      <atom:title>PersonDetails</atom:title>
    </collection>
    <collection href="Advertisements">
      <atom:title>Advertisements</atom:title>
    </collection>
  </workspace>
</service>
  
```

Required: Sets if parameter is required

Type:

Options:

Description:

Disable Encoding: Disables URL-Encoding of the parameter value

Request Properties

| Property | Value |
|----------------------|---------------------------|
| Name | Request 1 |
| Description | |
| Encoding | |
| Endpoint | http://services.odata.org |
| Timeout | |
| Bind Address | |
| Follow Redirects | true |
| Username | |
| Password | |
| Domain | |
| Authentication Type | Global HTTP Settings |
| SSL Keystore | |
| Strip whitespaces | false |
| Remove Empty Content | false |
| Entity Properties | false |

... Header... Attachmen... Representati... JMS He... JMS Proper... Headers (14) Attachments (0) SSL Info Representations (2) Schema (conflicts) JMS (0)

response time: 185ms (801 bytes) 1 : 1

| # | Result | Protocol | Host | URL |
|----|--------|----------|-------------------------------------|-------------------------|
| 1 | 200 | HTTPS | www.telerik.com | /UpdateCheck.aspx?isBet |
| 2 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 3 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 4 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 5 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 6 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 7 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |
| 8 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 9 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 10 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 11 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 12 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |
| 13 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 14 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 15 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |
| 16 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 17 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 18 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 19 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 20 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 21 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 22 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 23 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 24 | 200 | HTTP | Tunnel to safebrowsing.google.com | |
| 25 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 26 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 27 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/\$m |
| 28 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |

Use this page to compose a Request. You can clone a prior request by dragging and dropping a session from the Web Sessions list.

Parsed Raw Scratchpad Options

GET http://services.odata.org/V3/OData/OData.svc/\$metadata HTTP/1.1

User-Agent: Fiddler
Host: services.odata.org

Request Body Upload file...

[Empty request body area]

Log Requests

History

- services.odata.org/V...

| # | Result | Protocol | Host | URL |
|----|--------|----------|-------------------------------------|--------------------------|
| 1 | 200 | HTTPS | www.telerik.com | /UpdateCheck.aspx?isBeta |
| 2 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 3 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/Ad |
| 4 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 5 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 6 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 7 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |
| 8 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 9 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 10 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 11 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 12 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |
| 13 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 14 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 15 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |
| 16 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 17 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 18 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 19 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 20 | 200 | HTTP | Tunnel to www.youtube.com:443 | |
| 21 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 22 | 200 | HTTP | Tunnel to plus.google.com:443 | |
| 23 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 24 | 200 | HTTP | Tunnel to safebrowsing.google.com | |
| 25 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 26 | 200 | HTTP | Tunnel to googleads.g.doubleclick.n | |
| 27 | 200 | HTTP | services.odata.org | /V3/OData/OData.svc/\$m |
| 28 | 200 | HTTP | Tunnel to blu406-m.hotmail.com:44 | |

Request Headers [Raw] [Header Definitions]

GET /V3/OData/OData.svc/\$metadata HTTP/1.1

Client
User-Agent: Fiddler

Transport
Host: services.odata.org

Get SyntaxView Transformer Headers TextView ImageView HexView WebView Auth Caching Cookies Raw JSON XML

```

edmx:Edmx [ Version=1.0 xmlns:edmx=http://schemas.microsoft.com/ado/2007/06/edmx ]
  edmx:DataServices [ m:DataServiceVersion=3.0 m:MaxDataServiceVersion=3.0 xmlns:m=http://schemas.microsoft.com/ado/2007/08/dataservices/metadata ]
    Schema [ Namespace=ODataDemo xmlns=http://schemas.microsoft.com/ado/2009/11/edm ]
      EntityType [ Name=Product ]
        Key
          <PropertyRef Name="ID" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <Property Name="ID" Type="Edm.Int32" Nullable="false" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <Property Name="Name" Type="Edm.String" m:FC_TargetPath="SyndicationTitle" m:FC_ContentKind="text" m:FC_KeepInContent="false" xmlns:m="http://schemas.microsoft.com/ado/2007/08/dataservices/metadata" />
          <Property Name="Description" Type="Edm.String" m:FC_TargetPath="SyndicationSummary" m:FC_ContentKind="text" m:FC_KeepInContent="false" xmlns:m="http://schemas.microsoft.com/ado/2007/08/dataservices/metadata" />
          <Property Name="ReleaseDate" Type="Edm.DateTime" Nullable="false" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <Property Name="DiscontinuedDate" Type="Edm.DateTime" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <Property Name="Rating" Type="Edm.Int16" Nullable="false" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <Property Name="Price" Type="Edm.Double" Nullable="false" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <NavigationProperty Name="Categories" Relationship="ODataDemo.Product_Categories_Category_Products" ToRole="Category_Products" FromRole="Product_Categories" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <NavigationProperty Name="Supplier" Relationship="ODataDemo.Product_Supplier_Supplier_Products" ToRole="Supplier_Products" FromRole="Product_Supplier" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <NavigationProperty Name="ProductDetail" Relationship="ODataDemo.Product_ProductDetail_ProductDetail_Product" ToRole="ProductDetail_Product" FromRole="Product_ProductDetail" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
        EntityType [ Name=FeaturedProduct BaseType=ODataDemo.Product ]
          <NavigationProperty Name="Advertisement" Relationship="ODataDemo.FeaturedProduct_Advertisement_Advertisement_FeaturedProduct" ToRole="Advertisement_FeaturedProduct" FromRole="FeaturedProduct_Advertisement" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
        EntityType [ Name=ProductDetail ]
          Key
            <PropertyRef Name="ProductID" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="ProductID" Type="Edm.Int32" Nullable="false" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="Details" Type="Edm.String" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <NavigationProperty Name="Product" Relationship="ODataDemo.Product_ProductDetail_ProductDetail_Product" ToRole="Product_ProductDetail" FromRole="ProductDetail_Product" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
        EntityType [ Name=Category OpenType=true ]
          Key
            <PropertyRef Name="ID" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="ID" Type="Edm.Int32" Nullable="false" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="Name" Type="Edm.String" m:FC_TargetPath="SyndicationTitle" m:FC_ContentKind="text" m:FC_KeepInContent="true" xmlns:m="http://schemas.microsoft.com/ado/2007/08/dataservices/metadata" />
            <NavigationProperty Name="Products" Relationship="ODataDemo.Product_Categories_Category_Products" ToRole="Product_Categories" FromRole="Category_Products" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
        EntityType [ Name=Supplier ]
          Key
            <PropertyRef Name="ID" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="ID" Type="Edm.Int32" Nullable="false" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="Name" Type="Edm.String" m:FC_TargetPath="SyndicationTitle" m:FC_ContentKind="text" m:FC_KeepInContent="true" xmlns:m="http://schemas.microsoft.com/ado/2007/08/dataservices/metadata" />
            <Property Name="Address" Type="ODataDemo.Address" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="Location" Type="Edm.GeographyPoint" SRID="Variable" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="Concurrency" Type="Edm.Int32" ConcurrencyMode="Fixed" Nullable="false" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <NavigationProperty Name="Products" Relationship="ODataDemo.Product_Supplier_Supplier_Products" ToRole="Product_Supplier" FromRole="Supplier_Products" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
        ComplexType [ Name=Address ]
          <Property Name="Street" Type="Edm.String" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <Property Name="City" Type="Edm.String" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <Property Name="State" Type="Edm.String" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <Property Name="ZipCode" Type="Edm.String" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
          <Property Name="Country" Type="Edm.String" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
        EntityType [ Name=Person ]
          Key
            <PropertyRef Name="ID" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="ID" Type="Edm.Int32" Nullable="false" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <Property Name="Name" Type="Edm.String" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
            <NavigationProperty Name="PersonDetail" Relationship="ODataDemo.Person_PersonDetail_PersonDetail_Person" ToRole="PersonDetail_Person" FromRole="Person_PersonDetail" xmlns="http://schemas.microsoft.com/ado/2009/11/edm" />
        EntityType [ Name=Customer BaseType=ODataDemo.Person ]

```

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
-<service xml:base="http://localhost:24278/WcfDataService1.svc/">  
  -<workspace>  
    <atom:title>Default</atom:title>  
    -<collection href="Dirs">  
      <atom:title>Dirs</atom:title>  
    </collection>  
    -<collection href="tmp2">  
      <atom:title>tmp2</atom:title>  
    </collection>  
    -<collection href="tmp3">  
      <atom:title>tmp3</atom:title>  
    </collection>  
    -<collection href="VD2VF">  
      <atom:title>VD2VF</atom:title>  
    </collection>  
    -<collection href="VirtualDir">  
      <atom:title>VirtualDir</atom:title>  
    </collection>  
    -<collection href="VirtualFile">  
      <atom:title>VirtualFile</atom:title>  
    </collection>  
    -<collection href="VirtualVideoFile">  
      <atom:title>VirtualVideoFile</atom:title>  
    </collection>  
  </workspace>  
</service>
```




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VD2VF

2 січня 2017 р. 8:03

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VD2VF

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2 січня 2017 р. 8:15

2 січня 2017 р. 8:15

| Status | Method | File | Domain | Headers | Cookies | Params | Response | Timings |
|--------|--------|-------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|---------|
| 200 | GET | VD2VF | localhost:24278 | <pre> 1574 <updated>2017-01-02T06:15:12Z</updated> 1575 <author> 1576 <name /> 1577 </author> 1578 <link rel="edit" title="VD2VF" href="VD2VF(93)" /> 1579 <category term="MyArchiveModel.VD2VF" scheme="http://schemas.microsoft.com/ado/2007/08/dataservices/scheme" /> 1580 <content type="application/xml"> 1581 <m:properties> 1582 <d:i m:type="Edm.Int32">93</d:i> 1583 <d:ToVirtualDir m:type="Edm.Guid">5587cecb-e014-4d3a-9314-ace8df1e1bce</d:ToVirtualDir> 1584 <d:ToVirtualFile m:type="Edm.Guid">246bf6a1-fc9d-40ab-97a7-cab9c466fd3a</d:ToVirtualFile> 1585 </m:properties> 1586 </content> 1587 </entry> 1588 <entry> 1589 <id>http://localhost:24278/WcfDataService1.svc/VD2VF(94)</id> 1590 <title type="text"></title> 1591 <updated>2017-01-02T06:15:12Z</updated> 1592 <author> 1593 <name /> 1594 </author> 1595 <link rel="edit" title="VD2VF" href="VD2VF(94)" /> 1596 <category term="MyArchiveModel.VD2VF" scheme="http://schemas.microsoft.com/ado/2007/08/dataservices/scheme" /> 1597 <content type="application/xml"> 1598 <m:properties> 1599 <d:i m:type="Edm.Int32">94</d:i> 1600 <d:ToVirtualDir m:type="Edm.Guid">5587cecb-e014-4d3a-9314-ace8df1e1bce</d:ToVirtualDir> 1601 <d:ToVirtualFile m:type="Edm.Guid">0f53f731-36a5-43ed-9a1e-51401869c0ac</d:ToVirtualFile> 1602 </m:properties> 1603 </content> 1604 </entry> 1605 <entry> 1606 <id>http://localhost:24278/WcfDataService1.svc/VD2VF(95)</id> 1607 <title type="text"></title> 1608 <updated>2017-01-02T06:15:12Z</updated> 1609 <author> 1610 <name /> 1611 </author> 1612 <link rel="edit" title="VD2VF" href="VD2VF(95)" /> 1613 <category term="MyArchiveModel.VD2VF" scheme="http://schemas.microsoft.com/ado/2007/08/dataservices/scheme" /> 1614 <content type="application/xml"> 1615 <m:properties> 1616 <d:i m:type="Edm.Int32">95</d:i> 1617 <d:ToVirtualDir m:type="Edm.Guid">5587cecb-e014-4d3a-9314-ace8df1e1bce</d:ToVirtualDir> 1618 <d:ToVirtualFile m:type="Edm.Guid">5bee572f-2dbd-4166-8b35-de0497a92b30</d:ToVirtualFile> 1619 </m:properties> 1620 </pre> | | | | |

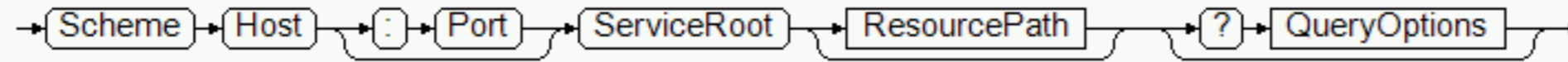
describes the actions that can be performed on the OData (optionally constructed following the conventions defined in this document) embedded in those representations.

It is encouraged that servers follow the URI construction conventions defined in this specification when possible as such consistency promotes an ecosystem of reusable client components and libraries.

The terms used in this document are defined in the [OData:Terms] document.

1. URI Components

A URI used by an OData service has up to three significant parts: the **service root URI**, **resource path** and **query string options**. Additional URI constructs (such as a fragment) MAY be present in a URI used by an OData service; however, this specification applies no further meaning to such additional constructs.



The following are two example URIs broken down into their component parts:

```

http://services.odata.org/OData/OData.svc /
| service root URI
http://services.odata.org/OData/OData.svc/Category(1)/Products?$top=2&$orderby=name
|-----|-----|-----|
|         |         |         |
| service root URI | resource path | query options
    
```

2. Service Root URI

The service root URI identifies the root of an OData service. The resource identified by this URI MUST be an AtomPub Service Document (as specified in [RFC5023]) and follow the OData conventions for AtomPub Service Documents (or an alternate representation of an Atom Service Document if a different format is requested). OData: JSON Format specifies such an alternate JSON-based representation of a service document. The service document is required to be returned from the root of an OData service to provide clients with a simple mechanism to enumerate all of the collections of resources available for the data service.

| Example Request URI | OData Service URI |
|------------------------------------------------------|--------------------------------------------|
| http://services.odata.org:8080 | http://services.odata.org:8080 |
| http://services.odata.org/OData/OData.svc/Categories | http://services.odata.org/OData/OData.svc/ |

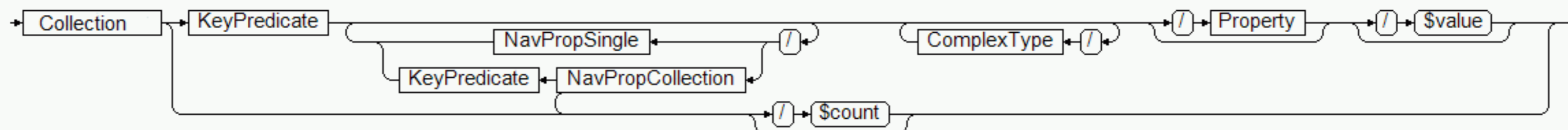
3. Resource Path

The resource path construction rules defined in this section are optional. OData servers are encouraged to follow the URI path construction rules (in addition to the required query string rules) as such consistency promotes a rich ecosystem of reusable client components and libraries.

The resource path section of a URI identifies the resource to be interacted with (such as Customers, a single Customer, Orders related to Customers in London, and so forth). The resource path enables any aspect of the data model (Collections of Entries, a single Entry, Properties, Links, Service Operations, and so on) exposed by an OData service to be addressed.

3.1. Addressing Entries

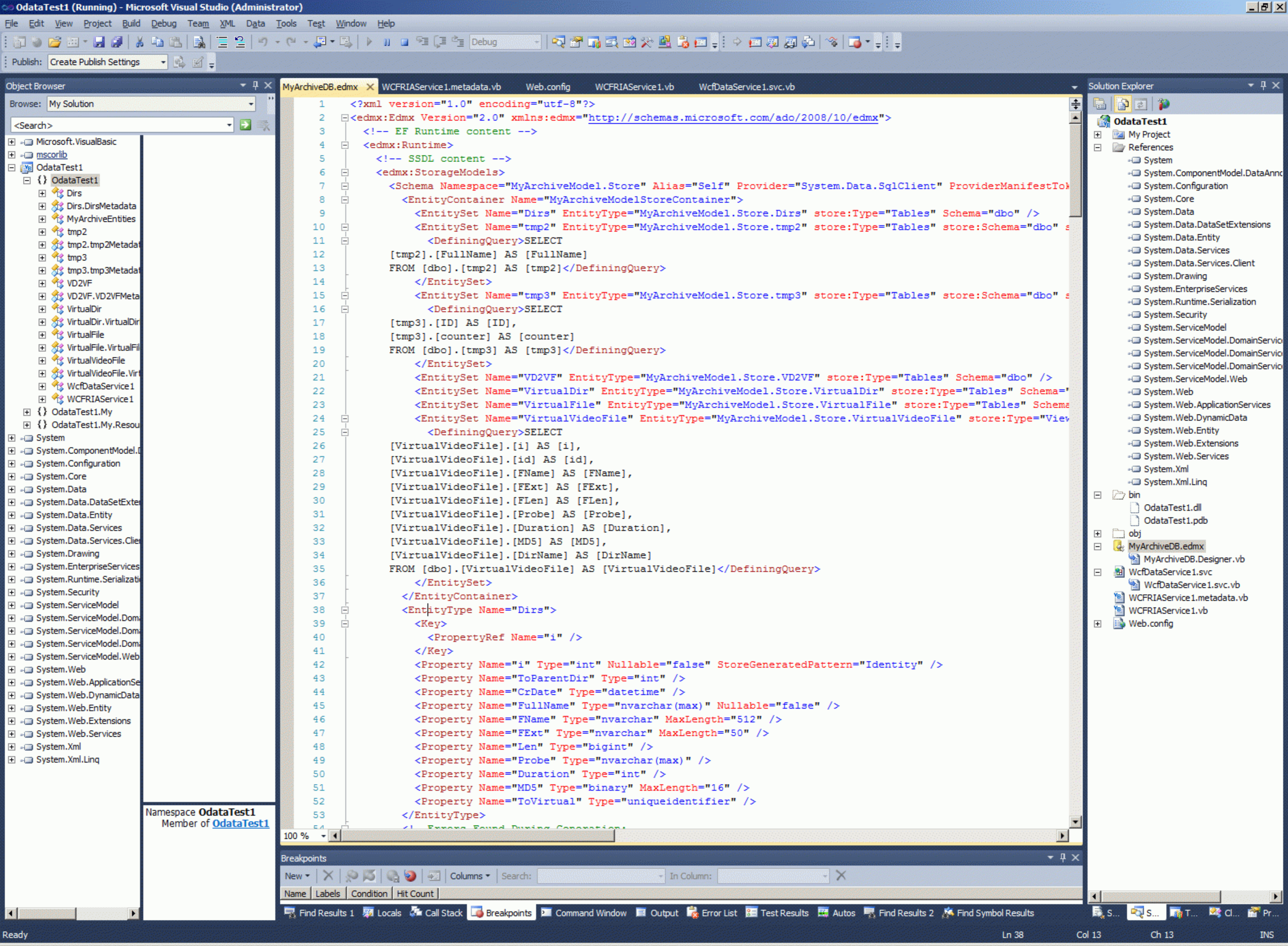
The basic rules for addressing a Collection (of Entries), a single Entry within a Collection, as well as a property of an Entry are illustrated in the figure below.



- **Collection:** The name of a Collection or Service Operation (which returns a Collection of Entries) exposed by the service.
- **KeyPredicate:** A predicate that identifies the value(s) of the key Properties of an Entry. If the Entry has a single key Property the predicate may include only the value of the key Property. If the key is made up of two or more Properties, then its value must be stated using name/value pairs. More precisely, the syntax for a KeyPredicate is shown by

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
-<edmx:Edmx Version="1.0">  
  -<edmx:DataServices m:DataServiceVersion="1.0">  
    -<Schema Namespace="MyArchiveModel">  
      -<EntityType Name="Dirs">  
        -<Key>  
          <PropertyRef Name="i"/>  
        </Key>  
        <Property Name="i" Type="Edm.Int32" Nullable="false" p8:StoreGeneratedPattern="Identity"/>  
        <Property Name="ToParentDir" Type="Edm.Int32" Nullable="true"/>  
        <Property Name="CrDate" Type="Edm.DateTime" Nullable="true"/>  
        <Property Name="FullName" Type="Edm.String" Nullable="false" MaxLength="Max" Unicode="true" FixedLength="false"/>  
        <Property Name="FName" Type="Edm.String" Nullable="true" MaxLength="512" Unicode="true" FixedLength="false"/>  
        <Property Name="FExt" Type="Edm.String" Nullable="true" MaxLength="50" Unicode="true" FixedLength="false"/>  
        <Property Name="Len" Type="Edm.Int64" Nullable="true"/>  
        <Property Name="Probe" Type="Edm.String" Nullable="true" MaxLength="Max" Unicode="true" FixedLength="false"/>  
        <Property Name="Duration" Type="Edm.Int32" Nullable="true"/>  
        <Property Name="MD5" Type="Edm.Binary" Nullable="true" MaxLength="16" FixedLength="true"/>  
        <Property Name="ToVirtual" Type="Edm.Guid" Nullable="true"/>  
      </EntityType>  
      -<EntityType Name="tmp2">  
        -<Key>  
          <PropertyRef Name="FullName"/>  
        </Key>  
        <Property Name="FullName" Type="Edm.String" Nullable="false" MaxLength="Max" Unicode="true" FixedLength="false"/>  
      </EntityType>  
      -<EntityType Name="tmp3">  
        -<Key>  
          <PropertyRef Name="ID"/>  
        </Key>  
        <Property Name="ID" Type="Edm.Guid" Nullable="false"/>  
        <Property Name="counter" Type="Edm.Int32" Nullable="true"/>  
      </EntityType>  
      -<EntityType Name="VD2VF">  
        -<Key>  
          <PropertyRef Name="i"/>  
        </Key>  
        <Property Name="i" Type="Edm.Int32" Nullable="false" p8:StoreGeneratedPattern="Identity"/>  
        <Property Name="ToVirtualDir" Type="Edm.Guid" Nullable="false"/>  
        <Property Name="ToVirtualFile" Type="Edm.Guid" Nullable="false"/>  
      </EntityType>  
      -<EntityType Name="VirtualDir">  
        -<Key>  
          <PropertyRef Name="i"/>  
        </Key>  
        <Property Name="i" Type="Edm.Int32" Nullable="false" p8:StoreGeneratedPattern="Identity"/>  
        <Property Name="ID" Type="Edm.Guid" Nullable="false"/>  
        <Property Name="Name" Type="Edm.String" Nullable="false" MaxLength="Max" Unicode="true" FixedLength="false"/>  
        <Property Name="ToVirtualFile" Type="Edm.Guid" Nullable="true"/>  
      </EntityType>  
      -<EntityType Name="VirtualFile">  
        -<Key>
```



- Microsoft.VisualBasic
- mscorlib
- OdataTest1
 - OdataTest1
 - Dirs
 - Dirs.DirsMetadata
 - MyArchiveEntities
 - tmp2
 - tmp2.tmp2Metadata
 - tmp3
 - tmp3.tmp3Metadata
 - VD2VF
 - VD2VF.VD2VFMeta
 - VirtualDir
 - VirtualDir.VirtualDir
 - VirtualFile
 - VirtualFile.VirtualFil
 - VirtualVideoFile
 - VirtualVideoFile.Virt
 - WcfDataService1
 - WCFRIAService1
 - OdataTest1.My
 - OdataTest1.My.Resou
- System
- System.ComponentModel.D
- System.Configuration
- System.Core
- System.Data
- System.Data.DataSetExte
- System.Data.Entity
- System.Data.Services
- System.Data.Services.Clie
- System.Drawing
- System.EnterpriseServices
- System.Runtime.Serializati
- System.Security
- System.ServiceModel
- System.ServiceModel.Dom
- System.ServiceModel.Dom
- System.ServiceModel.Dom
- System.ServiceModel.Web
- System.Web
- System.Web.ApplicationSe
- System.Web.DynamicData
- System.Web.Entity
- System.Web.Extensions
- System.Web.Services
- System.Xml
- System.Xml.Linq

Namespace OdataTest1
Member of OdataTest1

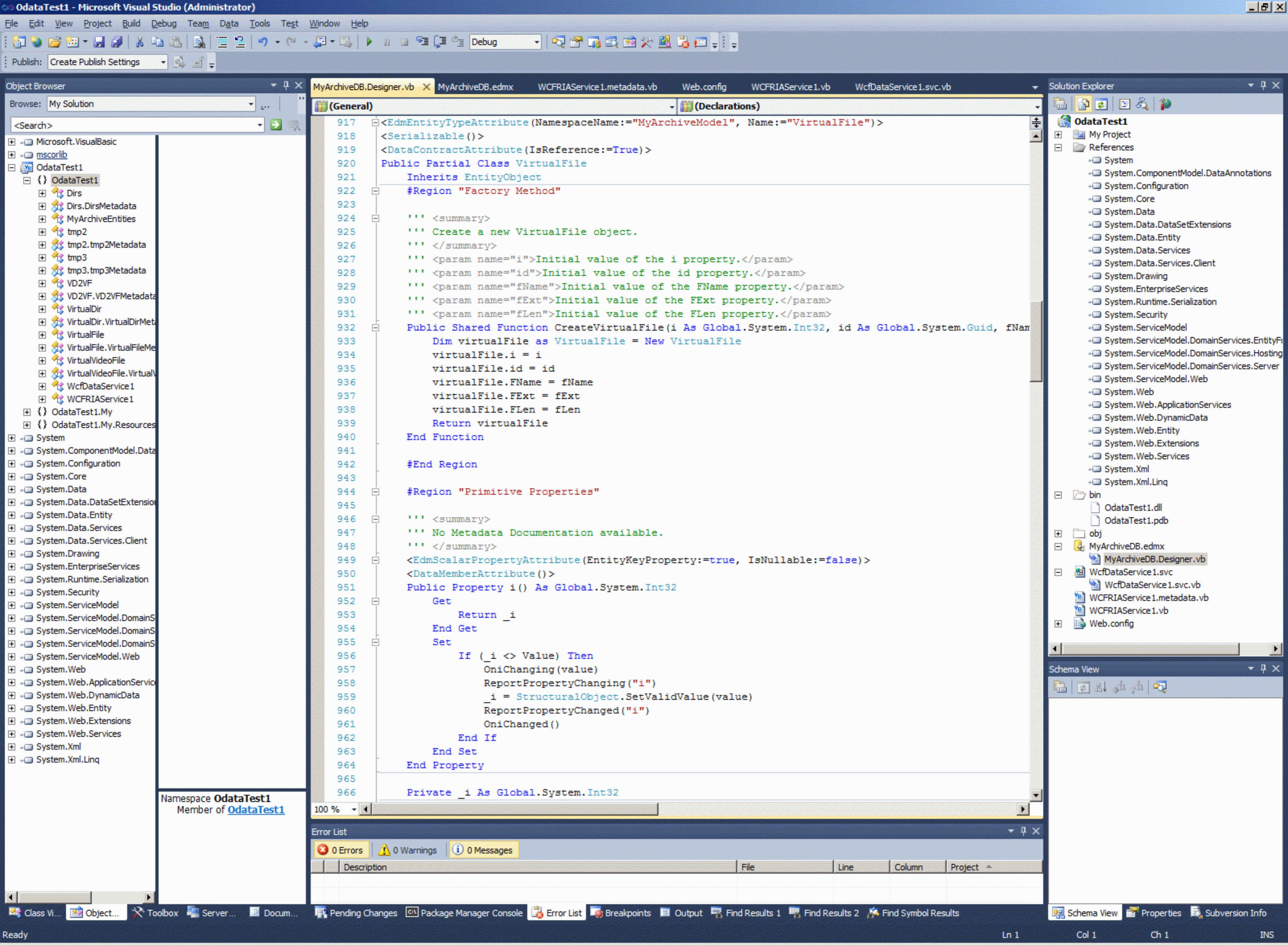
```

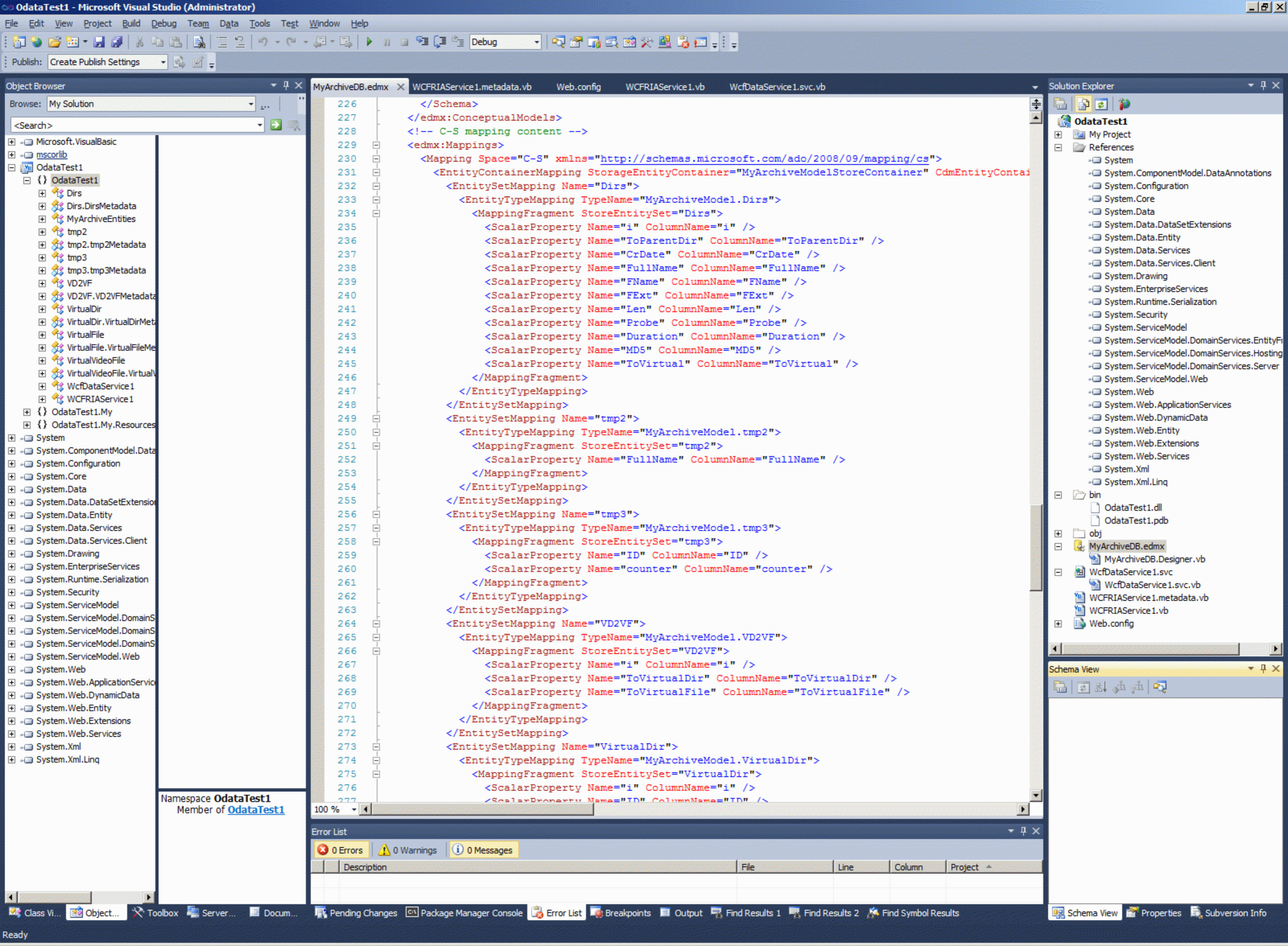
1  <?xml version="1.0" encoding="utf-8"?>
2  <edmx:Edmx Version="2.0" xmlns:edmx="http://schemas.microsoft.com/ado/2008/10/edmx">
3    <!-- EF Runtime content -->
4    <edmx:Runtime>
5      <!-- SSDL content -->
6      <edmx:StorageModels>
7        <Schema Namespace="MyArchiveModel.Store" Alias="Self" Provider="System.Data.SqlClient" ProviderManifestToke
8          <EntityContainer Name="MyArchiveModelStoreContainer">
9            <EntitySet Name="Dirs" EntityType="MyArchiveModel.Store.Dirs" store:Type="Tables" Schema="dbo" />
10           <EntitySet Name="tmp2" EntityType="MyArchiveModel.Store.tmp2" store:Type="Tables" store:Schema="dbo" s
11             <DefiningQuery>SELECT
12               [tmp2].[FullName] AS [FullName]
13             FROM [dbo].[tmp2] AS [tmp2]</DefiningQuery>
14           </EntitySet>
15           <EntitySet Name="tmp3" EntityType="MyArchiveModel.Store.tmp3" store:Type="Tables" store:Schema="dbo" s
16             <DefiningQuery>SELECT
17               [tmp3].[ID] AS [ID],
18               [tmp3].[counter] AS [counter]
19             FROM [dbo].[tmp3] AS [tmp3]</DefiningQuery>
20           </EntitySet>
21           <EntitySet Name="VD2VF" EntityType="MyArchiveModel.Store.VD2VF" store:Type="Tables" Schema="dbo" />
22           <EntitySet Name="VirtualDir" EntityType="MyArchiveModel.Store.VirtualDir" store:Type="Tables" Schema="
23           <EntitySet Name="VirtualFile" EntityType="MyArchiveModel.Store.VirtualFile" store:Type="Tables" Schema
24           <EntitySet Name="VirtualVideoFile" EntityType="MyArchiveModel.Store.VirtualVideoFile" store:Type="View
25             <DefiningQuery>SELECT
26               [VirtualVideoFile].[i] AS [i],
27               [VirtualVideoFile].[id] AS [id],
28               [VirtualVideoFile].[FName] AS [FName],
29               [VirtualVideoFile].[FExt] AS [FExt],
30               [VirtualVideoFile].[FLen] AS [FLen],
31               [VirtualVideoFile].[Probe] AS [Probe],
32               [VirtualVideoFile].[Duration] AS [Duration],
33               [VirtualVideoFile].[MD5] AS [MD5],
34               [VirtualVideoFile].[DirName] AS [DirName]
35             FROM [dbo].[VirtualVideoFile] AS [VirtualVideoFile]</DefiningQuery>
36           </EntitySet>
37         </EntityContainer>
38         <EntityType Name="Dirs">
39           <Key>
40             <PropertyRef Name="i" />
41           </Key>
42           <Property Name="i" Type="int" Nullable="false" StoreGeneratedPattern="Identity" />
43           <Property Name="ToParentDir" Type="int" />
44           <Property Name="CrDate" Type="datetime" />
45           <Property Name="FullName" Type="nvarchar(max)" Nullable="false" />
46           <Property Name="FName" Type="nvarchar" MaxLength="512" />
47           <Property Name="FExt" Type="nvarchar" MaxLength="50" />
48           <Property Name="Len" Type="bigint" />
49           <Property Name="Probe" Type="nvarchar(max)" />
50           <Property Name="Duration" Type="int" />
51           <Property Name="MD5" Type="binary" MaxLength="16" />
52           <Property Name="ToVirtual" Type="uniqueidentifier" />
53         </EntityType>
54       </edmx:StorageModels>

```

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| Name | Labels | Condition | Hit Count |
|------|--------|-----------|-----------|
| | | | |





Object Browser

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Namespace **OdataTest1**
Member of **OdataTest1**

```

226     </Schema>
227 </edmx:ConceptualModels>
228 <!-- C-S mapping content -->
229 <edmx:Mappings>
230   <Mapping Space="C-S" xmlns="http://schemas.microsoft.com/ado/2008/09/mapping/cs">
231     <EntityContainerMapping StorageEntityContainer="MyArchiveModelStoreContainer" CdmEntityContainer="MyArchiveModelStoreContainer">
232       <EntitySetMapping Name="Dirs">
233         <EntityTypeMapping TypeName="MyArchiveModel.Dirs">
234           <MappingFragment StoreEntitySet="Dirs">
235             <ScalarProperty Name="i" ColumnName="i" />
236             <ScalarProperty Name="ToParentDir" ColumnName="ToParentDir" />
237             <ScalarProperty Name="CrDate" ColumnName="CrDate" />
238             <ScalarProperty Name="FullName" ColumnName="FullName" />
239             <ScalarProperty Name="FName" ColumnName="FName" />
240             <ScalarProperty Name="FExt" ColumnName="FExt" />
241             <ScalarProperty Name="Len" ColumnName="Len" />
242             <ScalarProperty Name="Probe" ColumnName="Probe" />
243             <ScalarProperty Name="Duration" ColumnName="Duration" />
244             <ScalarProperty Name="MD5" ColumnName="MD5" />
245             <ScalarProperty Name="ToVirtual" ColumnName="ToVirtual" />
246           </MappingFragment>
247         </EntityTypeMapping>
248       </EntitySetMapping>
249       <EntitySetMapping Name="tmp2">
250         <EntityTypeMapping TypeName="MyArchiveModel.tmp2">
251           <MappingFragment StoreEntitySet="tmp2">
252             <ScalarProperty Name="FullName" ColumnName="FullName" />
253           </MappingFragment>
254         </EntityTypeMapping>
255       </EntitySetMapping>
256       <EntitySetMapping Name="tmp3">
257         <EntityTypeMapping TypeName="MyArchiveModel.tmp3">
258           <MappingFragment StoreEntitySet="tmp3">
259             <ScalarProperty Name="ID" ColumnName="ID" />
260             <ScalarProperty Name="counter" ColumnName="counter" />
261           </MappingFragment>
262         </EntityTypeMapping>
263       </EntitySetMapping>
264       <EntitySetMapping Name="VD2VF">
265         <EntityTypeMapping TypeName="MyArchiveModel.VD2VF">
266           <MappingFragment StoreEntitySet="VD2VF">
267             <ScalarProperty Name="i" ColumnName="i" />
268             <ScalarProperty Name="ToVirtualDir" ColumnName="ToVirtualDir" />
269             <ScalarProperty Name="ToVirtualFile" ColumnName="ToVirtualFile" />
270           </MappingFragment>
271         </EntityTypeMapping>
272       </EntitySetMapping>
273       <EntitySetMapping Name="VirtualDir">
274         <EntityTypeMapping TypeName="MyArchiveModel.VirtualDir">
275           <MappingFragment StoreEntitySet="VirtualDir">
276             <ScalarProperty Name="i" ColumnName="i" />
277             <ScalarProperty Name="ID" ColumnName="ID" />

```

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Schema View

0 Errors 0 Warnings 0 Messages

| Description | File | Line | Column | Project |
|-------------|------|------|--------|---------|
| | | | | |

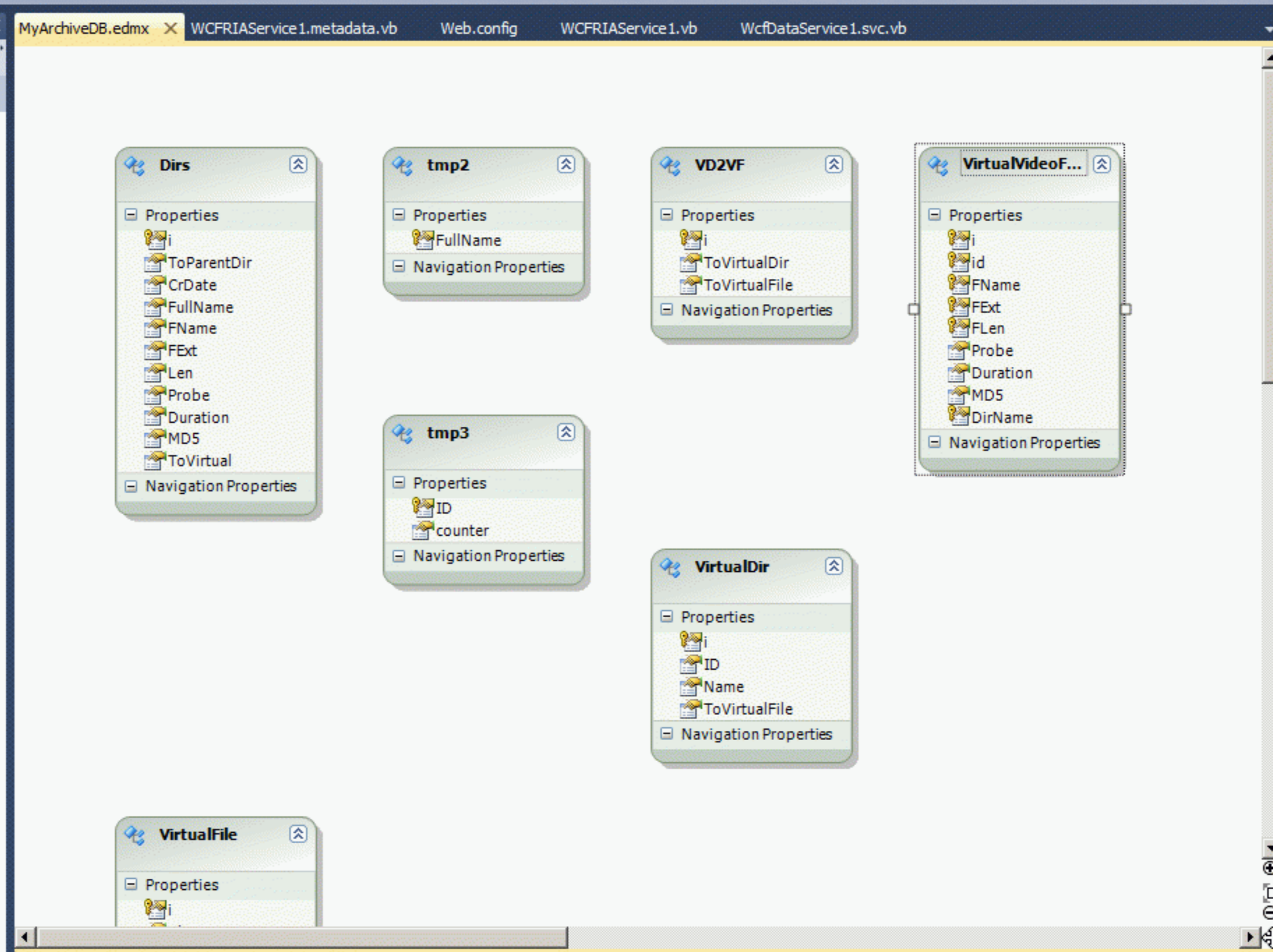
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Namespace **OdataTest1**
Member of **OdataTest1**



Model Browser

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 - tmp2
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 - VirtualDir
 - VirtualFile
 - VirtualVideoFile
 - Stored Procedures
 - Constraints

Mapping Details - VirtualVideoFile

| Column | Operator | Value / Property |
|--------------------------|----------|------------------|
| Tables | | |
| Maps to VirtualVideoFile | | |
| <Add a Condition> | | |
| Column Mappings | | |
| i : int | ↔ | i : Int32 |
| id : uniqueidentifier | ↔ | id : Guid |
| FName : nvarchar | ↔ | FName : String |
| FExt : nvarchar | ↔ | FExt : String |
| FLen : bigint | ↔ | FLen : Int64 |
| Probe : varchar(max) | ↔ | Probe : String |
| Duration : int | ↔ | Duration : Int32 |
| MD5 : varbinary | ↔ | MD5 : Binary |
| DirName : nvarchar(max) | ↔ | DirName : String |
| <Add a Table or View> | | |

Model Browser

Solution Explorer

Properties

MyArchiveModel.VirtualVideoFile EntityType

| | |
|-----------------|-------------------------|
| Abstract | False |
| Access | Public |
| Base Type | (None) |
| Documentation | |
| Entity Set Name | VirtualVideoFile |
| Name | VirtualVideoFile |

Name