

# Rolling Road GUI

Generated by Doxygen 1.8.11



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# Chapter 5

## Namespace Documentation

### 5.1 RollingRoad Namespace Reference

#### Namespaces

- namespace [Core](#)
- namespace [Infrastructure](#)
- namespace [Protocols](#)
- namespace [Test](#)
- namespace [WinApplication](#)

### 5.2 RollingRoad.Core Namespace Reference

#### Namespaces

- namespace [ApplicationServices](#)
- namespace [DomainModel](#)
- namespace [DomainServices](#)

### 5.3 RollingRoad.Core.ApplicationServices Namespace Reference

#### Classes

- class [FileLogger](#)
- interface [ICalibrateControl](#)
- interface [IDataSetDataFile](#)
- interface [ILiveDataSource](#)
- interface [ILogger](#)
- interface [IMotorControl](#)
- interface [IPidControl](#)
- interface [ITimer](#)
- interface [ITorqueControl](#)

*Allows the control of Rolling Road*

- class [LiveDataPointsEventArgs](#)
- class [Logger](#)

*Invokes OnLog every time there's a log message, does not store log.*

- class [SystemTimer](#)

## Enumerations

- enum [LiveDataSourceStatus](#) { [LiveDataSourceStatus.Stopped](#), [LiveDataSourceStatus.Running](#), [LiveDataSourceStatus.Disconnected](#) }

## Functions

- delegate void [OnStatusUpdate](#) (object sender, [LiveDataSourceStatus](#) status)

### 5.3.1 Enumeration Type Documentation

#### 5.3.1.1 enum RollingRoad.Core.ApplicationServices.LiveDataSourceStatus [strong]

Enumerator

*Stopped*  
*Running*  
*Disconnected*

### 5.3.2 Function Documentation

#### 5.3.2.1 delegate void RollingRoad.Core.ApplicationServices.OnStatusUpdate ( object sender, [LiveDataSourceStatus](#) status )

## 5.4 RollingRoad.Core.DomainModel Namespace Reference

### Classes

- class [DataList](#)
- class [DataPoint](#)
- class [DataSet](#)
- class [DataType](#)
- interface [IEntity](#)

## 5.5 RollingRoad.Core.DomainServices Namespace Reference

### Classes

- interface  [IRepository](#)
- interface  [IUnitOfWork](#)

## 5.6 RollingRoad.Infrastructure Namespace Reference

### Namespaces

- namespace  [DataAccess](#)

## 5.7 RollingRoad.Infrastructure.DataAccess Namespace Reference

### Namespaces

- namespace [Mapping](#)
- namespace [Migrations](#)

### Classes

- class [ApplicationContext](#)
- class [CsvDataFile](#)
- class [CsvDataInterpreter](#)
- class [LiveDataEmulator](#)
- class [MemoryRepository](#)
- class [Repository](#)
- class [SerialConnection](#)
- class [SP4MCInterpreter](#)
- class [SP4RRInterpreter](#)
- class [UnitOfWork](#)

## 5.8 RollingRoad.Infrastructure.DataAccess.Mapping Namespace Reference

### Classes

- class [DataListMap](#)
- class [DataPointMap](#)
- class [DataSetMap](#)
- class [EntityMap](#)

## 5.9 RollingRoad.Infrastructure.DataAccess.Migrations Namespace Reference

### Classes

- class [Configuration](#)
- class [DataPointIndex](#)
- class [Initial](#)

## 5.10 RollingRoad.Protocols Namespace Reference

### Classes

- class [CsvDataInterpreter](#)
- class [SP4MCInterpreter](#)
- class [SP4RRInterpreter](#)

## 5.11 RollingRoad.Test Namespace Reference

### Namespaces

- namespace [Unit](#)

## 5.12 RollingRoad.Test.Unit Namespace Reference

### Namespaces

- namespace [ApplicationServices](#)
- namespace [DataAccess](#)
- namespace [DomainModel](#)

### Classes

- class [LiveDataEmulatorTests](#)

## 5.13 RollingRoad.Test.Unit.ApplicationServices Namespace Reference

### Classes

- class [LoggerTests](#)

## 5.14 RollingRoad.Test.Unit.DataAccess Namespace Reference

### Classes

- class [CsvDataInterpreterTests](#)
- class [MemoryRepositoryTestClass](#)
- class [MemoryRepositoryTests](#)
- class [SP4MCInterpreterTests](#)
- class [SP4RRInterpreterTests](#)

## 5.15 RollingRoad.Test.Unit.DomainModel Namespace Reference

### Classes

- class [DataListTests](#)
- class [DatapointTests](#)
- class [DataSetTests](#)
- class [DateTypeTests](#)

## 5.16 RollingRoad.WinApplication Namespace Reference

### Namespaces

- namespace [Dialogs](#)
- namespace [Test](#)
- namespace [ViewModels](#)
- namespace [Views](#)

### Classes

- class [App](#)  
*Interaction logic for App.xaml*
- interface [IDispatcher](#)
- interface [ISettingsProvider](#)
- class [LineChart](#)  
*Interaction logic for LineChart.xaml*
- class [MainWindow](#)
- class [MathExtensions](#)
- class [Settings](#)
- class [SettingsFile](#)  
*Settings file originally used in the game "Norse"*
- class [SystemDispatcher](#)
- class [TabItemTemplateSelector](#)

## 5.17 RollingRoad.WinApplication.Dialogs Namespace Reference

### Classes

- class [ErrorMessageBox](#)
- interface [IErrorMessageBox](#)
- interface [IMessageBox](#)
- interface [IOpenFileDialog](#)
- interface [ISaveFileDialog](#)
- interface [ISelectSourceDialog](#)
- class [MessageBox](#)
- class [OpenFileDialog](#)
- class [SaveFileDialog](#)
- class [SelectSourceDialog](#)

## 5.18 RollingRoad.WinApplication.Test Namespace Reference

### Namespaces

- namespace [Unit](#)

## 5.19 RollingRoad.WinApplication.Test.Unit Namespace Reference

### Namespaces

- namespace [ViewModels](#)

## 5.20 RollingRoad.WinApplication.Test.Unit.ViewModels Namespace Reference

### Classes

- class [CalibrateControlViewModelTests](#)
- class [DataSetsViewModelTests](#)
- class [DataSetViewModelTests](#)
- class [LiveDataSourceViewModelTests](#)
- class [LoggerViewModelTests](#)
- class [MotorControlViewModelTests](#)
- class [PidControlViewModelTests](#)
- class [TorqueControlViewModelTests](#)

## 5.21 RollingRoad.WinApplication.ViewModels Namespace Reference

### Classes

- class [CalibrateControlViewModel](#)
- class [DataListViewModel](#)
- class [DataSetsViewModel](#)
- class [DataSetViewModel](#)
- class [LiveDataSourceViewModel](#)
- class [LoggerViewModel](#)
- class [MainWindowViewModel](#)
- class [MotorControlViewModel](#)
- class [PidControlViewModel](#)
- class [TestSessionViewModel](#)
- class [TorqueControlViewModel](#)

*Torque view model, uses "TorqueMin" and "TorqueMax" from DefaultSettings file to enable limits*

## 5.22 RollingRoad.WinApplication.Views Namespace Reference

### Classes

- class [AboutWindow](#)  
*Interaction logic for AboutWindow.xaml*
- class [DataSetsView](#)  
*Interaction logic for DataSetsView.xaml*
- class [LiveDataSourceView](#)  
*Interaction logic for LiveDataSourceView.xaml*
- class [LoggerView](#)  
*Interaction logic for LoggerView.xaml*
- class [PidControlView](#)  
*Interaction logic for PidControlView.xaml*
- class [SelectSourceWindow](#)  
*Interaction logic for SelectSourceDialog.xaml*
- class [TestSessionView](#)  
*Interaction logic for TestSessionView.xaml*

# Chapter 6

## Class Documentation

### 6.1 RollingRoad.WinApplication.Views.AboutWindow Class Reference

Interaction logic for AboutWindow.xaml

Collaboration diagram for RollingRoad.WinApplication.Views.AboutWindow:

RollingRoad.WinApplication. Views.AboutWindow
+ Version
+ AboutWindow()

#### Public Member Functions

- [AboutWindow \(\)](#)

#### Public Attributes

- string [Version](#) => System.Reflection.Assembly.GetExecutingAssembly().GetName().Version.ToString()

#### 6.1.1 Detailed Description

Interaction logic for AboutWindow.xaml

## 6.1.2 Constructor & Destructor Documentation

6.1.2.1 RollingRoad.WinApplication.Views.AboutWindow.AboutWindow ( ) [inline]

## 6.1.3 Member Data Documentation

6.1.3.1 string RollingRoad.WinApplication.Views.AboutWindow.Version => System.Reflection.Assembly.GetExecutingAssembly().GetName().Version.ToString()

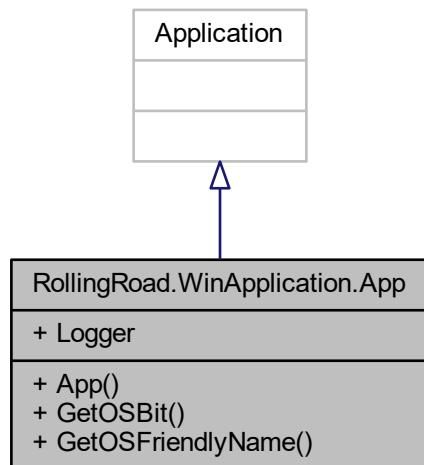
The documentation for this class was generated from the following file:

- [AboutWindow.xaml.cs](#)

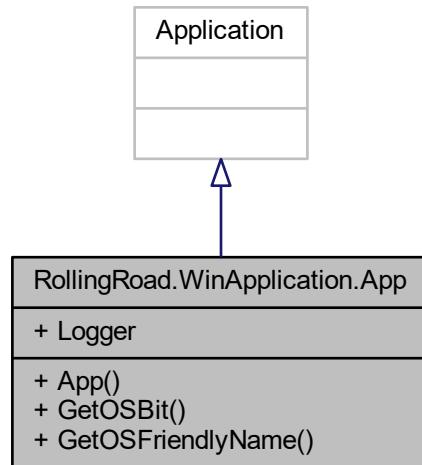
## 6.2 RollingRoad.WinApplication.App Class Reference

Interaction logic for App.xaml

Inheritance diagram for RollingRoad.WinApplication.App:



Collaboration diagram for RollingRoad.WinApplication.App:



## Public Member Functions

- [App \(\)](#)

## Static Public Member Functions

- static string [GetOSBit \(\)](#)
- static string [GetOSFriendlyName \(\)](#)

## Properties

- [ILogger Logger \[get\]](#)

### 6.2.1 Detailed Description

Interaction logic for App.xaml

## 6.2.2 Constructor & Destructor Documentation

6.2.2.1 `RollingRoad.WinApplication.App.App( )` [inline]

## 6.2.3 Member Function Documentation

6.2.3.1 `static string RollingRoad.WinApplication.App.GetOSBit( )` [inline], [static]

6.2.3.2 `static string RollingRoad.WinApplication.App.GetOSFriendlyName( )` [inline], [static]

## 6.2.4 Property Documentation

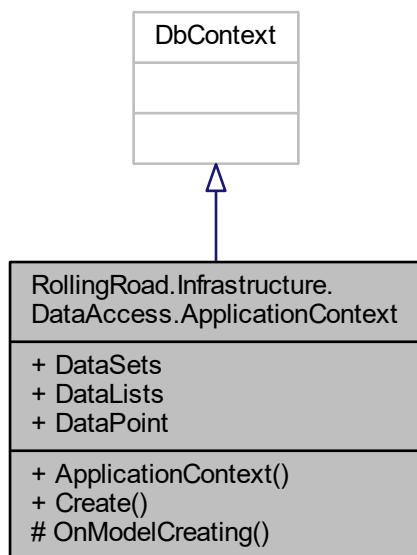
6.2.4.1 `ILogger RollingRoad.WinApplication.App.Logger` [get]

The documentation for this class was generated from the following file:

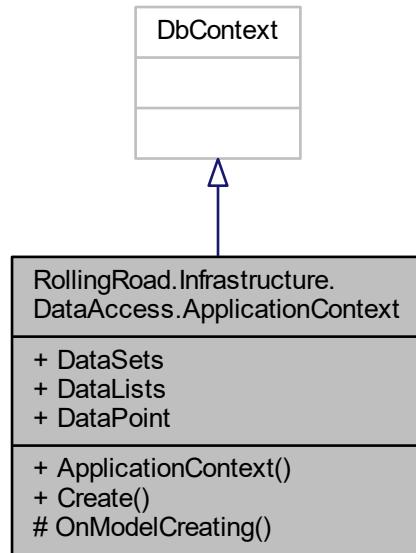
- [App.xaml.cs](#)

## 6.3 RollingRoad.Infrastructure.DataAccess.ApplicationContext Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.ApplicationContext:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.ApplicationContext:



## Public Member Functions

- [ApplicationContext \(\)](#)

## Static Public Member Functions

- static [ApplicationContext Create \(\)](#)

## Protected Member Functions

- override void [OnModelCreating \(DbModelBuilder modelBuilder\)](#)

## Properties

- `IDbSet< DataSet > DataSets [get, set]`
- `IDbSet< DataList > DataLists [get, set]`
- `IDbSet< DataPoint > DataPoint [get, set]`

### 6.3.1 Constructor & Destructor Documentation

6.3.1.1 `RollingRoad.Infrastructure.DataAccess.ApplicationContext.ApplicationContext( )` [inline]

### 6.3.2 Member Function Documentation

6.3.2.1 `static ApplicationContext RollingRoad.Infrastructure.DataAccess.ApplicationContext.Create( )` [inline], [static]

6.3.2.2 `override void RollingRoad.Infrastructure.DataAccess.ApplicationContext.OnModelCreating ( DbModelBuilder modelBuilder )` [inline], [protected]

### 6.3.3 Property Documentation

6.3.3.1 `IDbSet<DataList> RollingRoad.Infrastructure.DataAccess.ApplicationContext.DataLists` [get], [set]

6.3.3.2 `IDbSet<DataPoint> RollingRoad.Infrastructure.DataAccess.ApplicationContext.DataPoint` [get], [set]

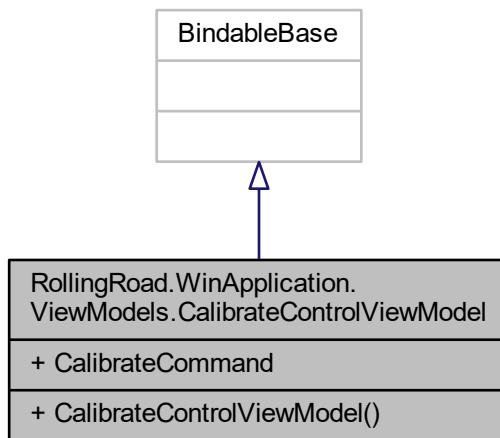
6.3.3.3 `IDbSet<DataSet> RollingRoad.Infrastructure.DataAccess.ApplicationContext.DataSets` [get], [set]

The documentation for this class was generated from the following file:

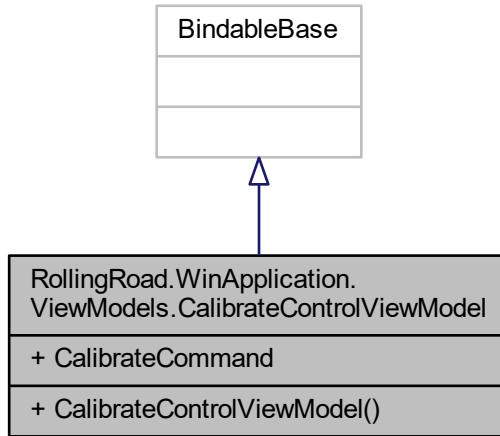
- [ApplicationContext.cs](#)

## 6.4 RollingRoad.WinApplication.ViewModels.CalibrateControlViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.CalibrateControlViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.CalibrateControlViewModel:



## Public Member Functions

- [CalibrateControlViewModel \(ICalibrateControl ctrl\)](#)

## Properties

- DelegateCommand [CalibrateCommand](#) [get]

### 6.4.1 Constructor & Destructor Documentation

6.4.1.1 `RollingRoad.WinApplication.ViewModels.CalibrateControlViewModel.CalibrateControlViewModel ( ICalibrateControl ctrl )` [inline]

### 6.4.2 Property Documentation

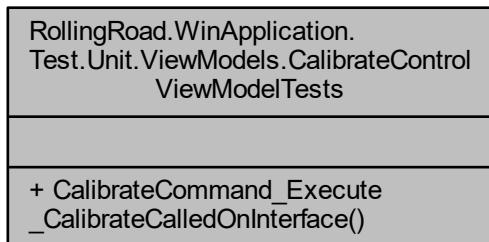
6.4.2.1 `DelegateCommand RollingRoad.WinApplication.ViewModels.CalibrateControlViewModel.CalibrateCommand` [get]

The documentation for this class was generated from the following file:

- [CalibrateControlViewModel.cs](#)

## 6.5 RollingRoad.WinApplication.Test.Unit.ViewModels.CalibrateControlViewModelTests Class Reference

Collaboration diagram for RollingRoad.WinApplication.Test.Unit.ViewModels.CalibrateControlViewModelTests:



### Public Member Functions

- `async Task CalibrateCommand_Execute_CalibrateCalledOnInterface ()`

#### 6.5.1 Member Function Documentation

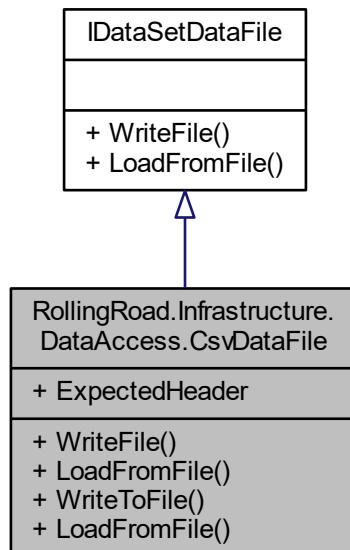
6.5.1.1 `async Task RollingRoad.WinApplication.Test.Unit.ViewModels.CalibrateControlViewModelTests.CalibrateCommand_← Execute_CalibrateCalledOnInterface ( ) [inline]`

The documentation for this class was generated from the following file:

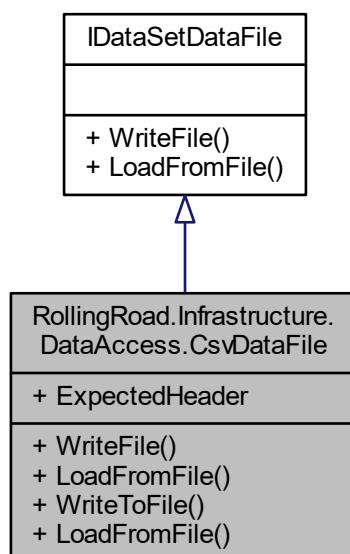
- [CalibrateControlViewModelTests.cs](#)

## 6.6 RollingRoad.Infrastructure.DataAccess.CsvDataFile Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.CsvDataFile:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.CsvDataFile:



## Public Member Functions

- void [WriteFile](#) (string path, [DataSet](#) dataset, string header)
- [DataSet LoadFromFile](#) (string path)

## Static Public Member Functions

- static void [WriteToFile](#) (string path, [DataSet](#) data, string header)  
*Save datasource to file*
- static [DataSet LoadFromFile](#) (string path, string header)

## Properties

- string [ExpectedHeader](#) [get, set]

### 6.6.1 Member Function Documentation

6.6.1.1 static [DataSet RollingRoad.Infrastructure.DataAccess.CsvDataFile.LoadFromFile](#) ( string path, string header )  
[inline], [static]

#### Exceptions

<a href="#">FileLoadException</a>	
<a href="#">FileNotFoundException</a>	

#### Parameters

<a href="#">path</a>	Path of the csv file to load
----------------------	------------------------------

6.6.1.2 [DataSet RollingRoad.Infrastructure.DataAccess.CsvDataFile.LoadFromFile](#) ( string path ) [inline]

Implements [RollingRoad.Core.ApplicationServices.IDataSetDataFile](#).

6.6.1.3 void [RollingRoad.Infrastructure.DataAccess.CsvDataFile.WriteLine](#) ( string path, [DataSet dataset](#), string header )  
[inline]

Implements [RollingRoad.Core.ApplicationServices.IDataSetDataFile](#).

6.6.1.4 static void [RollingRoad.Infrastructure.DataAccess.CsvDataFile.WriteLine](#) ( string path, [DataSet data](#), string header )  
[inline], [static]

Save datasource to file

#### Parameters

<i>path</i>	What path to save the file to
<i>data</i>	Data to be saved

#### 6.6.2 Property Documentation

6.6.2.1 string RollingRoad.Infrastructure.DataAccess.CsvDataFile.ExpectedHeader [get], [set]

The documentation for this class was generated from the following file:

- [CsvDataFile.cs](#)

## 6.7 RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests Class Reference

Collaboration diagram for RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests:

RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests
+ LoadFromStream_EmptyReader _ExceptionThrown() + LoadFromStream_Incorrect Header_ExceptionThrown() + LoadFromStream_CorrectUpper CaseHeader_DatasourceCreated() + LoadFromStream_NoDescription InStream_DescriptionIsEmpty() + LoadFromStream_Description InStream_DescriptionLoaded() + LoadFromStream_DataTypeAdded _DatalistWithCorrectNameReturned() + LoadFromStream_DataTypeAdded _DatalistWithCorrectUnitReturned() + LoadFromStream_DataTypeNot Added_DatalistNotFound() + LoadFromStream_DataTypeAdded WithOneDataPoint_FirstDataPoint Present() + LoadFromStream_DataTypeAdded WithOneScientificDatapointLarge E_FirstDataPointPresent() + LoadFromStream_DataTypeAdded WithOneScientificDatapointSmall E_FirstDataPointPresent() + LoadFromStream_DataTypeAdded WithTwoDataPoints_SecondDataPoint Present() + WriteToStream_TypePresent ButNoData_DescriptionPresent() + WriteToStream_TypePresent AndOneDataPoint_DataPresent()

### Public Member Functions

- void [LoadFromStream\\_EmptyReader\\_ExceptionThrown \(\)](#)
- void [LoadFromStream\\_IncorrectHeader\\_ExceptionThrown \(\)](#)
- void [LoadFromStream\\_CorrectUpperCaseHeader\\_DatasourceCreated \(\)](#)
- void [LoadFromStream\\_NoDescriptionInStream\\_DescriptionIsEmpty \(\)](#)
- void [LoadFromStream\\_DescriptionInStream\\_DescriptionLoaded \(\)](#)
- void [LoadFromStream\\_DataTypeAdded\\_DatalistWithCorrectNameReturned \(\)](#)
- void [LoadFromStream\\_DataTypeAdded\\_DatalistWithCorrectUnitReturned \(\)](#)

- void [LoadFromStream\\_DataTypeNotAdded\\_DatalistNotFound \(\)](#)
- void [LoadFromStream\\_DataTypeAddedWithOneDataPoint\\_FirstDataPointPresent \(double data\)](#)
- void [LoadFromStream\\_DataTypeAddedWithOneScientificDatapointLargeE\\_FirstDataPointPresent \(\)](#)
- void [LoadFromStream\\_DataTypeAddedWithOneScientificDatapointSmallE\\_FirstDataPointPresent \(\)](#)
- void [LoadFromStream\\_DataTypeAddedWithTwoDataPoints\\_SecondDataPointPresent \(double data\)](#)
- void [WriteToStream\\_TypePresentButNoData\\_DescriptionPresent \(\)](#)
- void [WriteToStream\\_TypePresentAndOneDataPoint\\_DataPresent \(double value, string valueString\)](#)

## 6.7.1 Member Function Documentation

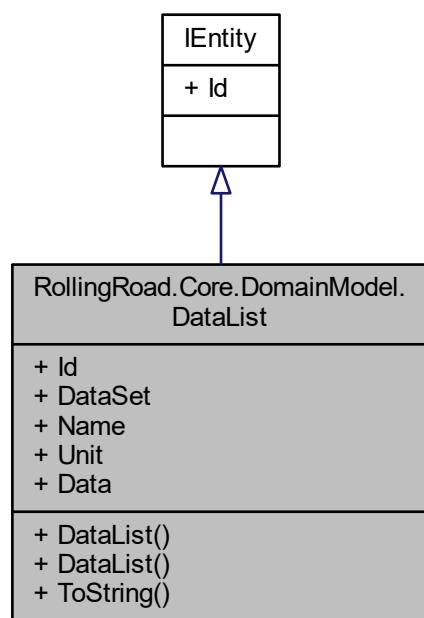
- 6.7.1.1 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_CorrectUpperCaseHeader\\_DatasourceCreated \(\) \[inline\]](#)
- 6.7.1.2 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_DataTypeAdded\\_DatalistWithCorrectNameReturned \(\) \[inline\]](#)
- 6.7.1.3 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_DataTypeAdded\\_DatalistWithCorrectUnitReturned \(\) \[inline\]](#)
- 6.7.1.4 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_DataTypeAddedWithOneDataPoint\\_FirstDataPointPresent \( double data \) \[inline\]](#)
- 6.7.1.5 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_DataTypeAddedWithOneScientificDatapointLargeE\\_FirstDataPointPresent \(\) \[inline\]](#)
- 6.7.1.6 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_DataTypeAddedWithOneScientificDatapointSmallE\\_FirstDataPointPresent \(\) \[inline\]](#)
- 6.7.1.7 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_DataTypeAddedWithTwoDataPoints\\_SecondDataPointPresent \( double data \) \[inline\]](#)
- 6.7.1.8 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_DataTypeNotAdded\\_DatalistNotFound \(\) \[inline\]](#)
- 6.7.1.9 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_DescriptionInStream\\_DescriptionLoaded \(\) \[inline\]](#)
- 6.7.1.10 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_EmptyReader\\_ExceptionThrown \(\) \[inline\]](#)
- 6.7.1.11 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_IncorrectHeader\\_ExceptionThrown \(\) \[inline\]](#)
- 6.7.1.12 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.LoadFromStream\\_NoDescriptionInStream\\_DescriptionIsEmpty \(\) \[inline\]](#)
- 6.7.1.13 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.WriteToStream\\_TypePresentAndOneDataPoint\\_DataPresent \( double value, string valueString \) \[inline\]](#)
- 6.7.1.14 void [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests.WriteToStream\\_TypePresentButNoData\\_DescriptionPresent \(\) \[inline\]](#)

The documentation for this class was generated from the following file:

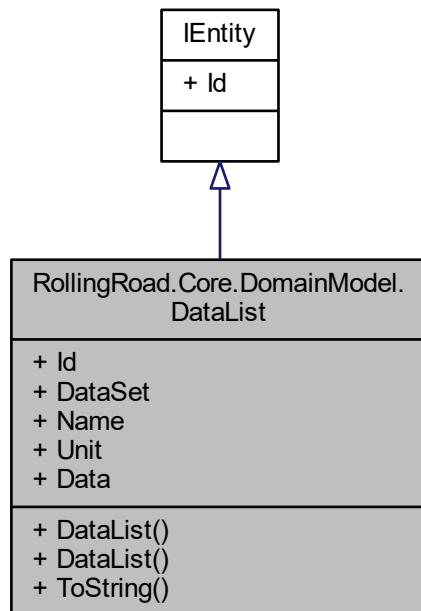
- [CsvDataInterpreterTests.cs](#)

## 6.8 RollingRoad.Core.DomainModel.DataList Class Reference

Inheritance diagram for RollingRoad.Core.DomainModel.DataList:



Collaboration diagram for RollingRoad.Core.DomainModel.DataList:



## Public Member Functions

- `DataList ()`
- `DataList (string name, string unit)`  
*Creates a new data list with the specified name and unit*
- `override string ToString ()`

## Properties

- `int Id [get, set]`
- `DataSet DataSet [get, set]`
- `string Name [get, set]`
- `string Unit [get, set]`
- `virtual ICollection<DataPoint> Data [get, set]`

### 6.8.1 Constructor & Destructor Documentation

6.8.1.1 `RollingRoad.Core.DomainModel.DataList.DataList( )` [inline]

6.8.1.2 `RollingRoad.Core.DomainModel.DataList.DataList( string name, string unit )` [inline]

Creates a new data list with the specified name and unit

**Parameters**

<i>type</i>	
-------------	--

**Exceptions**

<i>System.ArgumentException</i>	Thrown when name or unit is empty or null
---------------------------------	---

**6.8.2 Member Function Documentation**

6.8.2.1 `override string RollingRoad.Core.DomainModel.DataList.ToString( ) [inline]`

**6.8.3 Property Documentation**

6.8.3.1 `virtual ICollection<DataPoint> RollingRoad.Core.DomainModel.DataList.Data [get], [set]`

6.8.3.2 `DataSet RollingRoad.Core.DomainModel.DataList.DataSet [get], [set]`

6.8.3.3 `int RollingRoad.Core.DomainModel.DataList.Id [get], [set]`

6.8.3.4 `string RollingRoad.Core.DomainModel.DataList.Name [get], [set]`

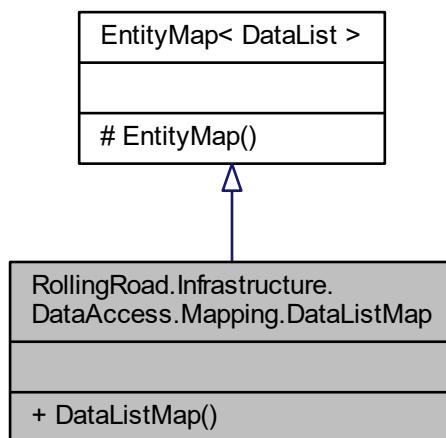
6.8.3.5 `string RollingRoad.Core.DomainModel.DataList.Unit [get], [set]`

The documentation for this class was generated from the following file:

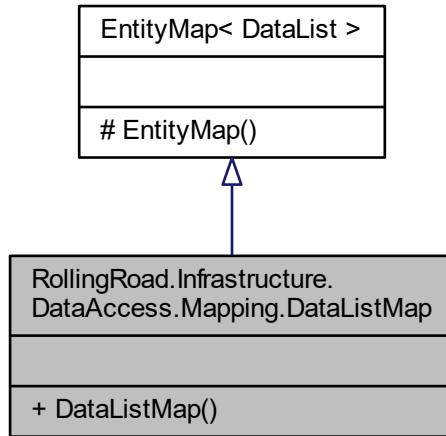
- [DataList.cs](#)

**6.9 RollingRoad.Infrastructure.DataAccess.Mapping.DataListMap Class Reference**

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.Mapping.DataListMap:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.Mapping.DataListMap:



## Public Member Functions

- [DataListMap \(\)](#)

## Additional Inherited Members

### 6.9.1 Constructor & Destructor Documentation

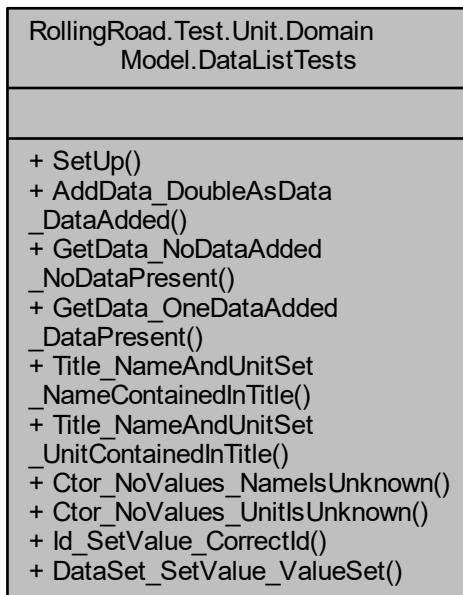
#### 6.9.1.1 RollingRoad.Infrastructure.DataAccess.Mapping.DataListMap.DataListMap ( ) [inline]

The documentation for this class was generated from the following file:

- [DataListMap.cs](#)

## 6.10 RollingRoad.Test.Unit.DomainModel.DataListTests Class Reference

Collaboration diagram for RollingRoad.Test.Unit.DomainModel.DataListTests:



### Public Member Functions

- void [SetUp \(\)](#)
- void [AddData\\_DoubleAsData\\_DataAdded \(\)](#)
- void [GetData\\_NoDataAdded\\_NoDataPresent \(\)](#)
- void [GetData\\_OneDataAdded\\_DataPresent \(\)](#)
- void [Title\\_NameAndUnitSet\\_NameContainedInTitle \(\)](#)
- void [Title\\_NameAndUnitSet\\_UnitContainedInTitle \(\)](#)
- void [Ctor\\_NoValues\\_NamelsUnknown \(\)](#)
- void [Ctor\\_NoValues\\_UnitlsUnknown \(\)](#)
- void [Id\\_SetValue\\_CorrectId \(int id\)](#)
- void [DataSet\\_SetValue\\_ValueSet \(\)](#)

#### 6.10.1 Member Function Documentation

6.10.1.1 void RollingRoad.Test.Unit.DomainModel.DataListTests.AddData\_DoubleAsData\_DataAdded ( ) [inline]

6.10.1.2 void RollingRoad.Test.Unit.DomainModel.DataListTests.Ctor\_NoValues\_NamelsUnknown ( ) [inline]

6.10.1.3 void RollingRoad.Test.Unit.DomainModel.DataListTests.Ctor\_NoValues\_UnitlsUnknown ( ) [inline]

6.10.1.4 void RollingRoad.Test.Unit.DomainModel.DataListTests.DataSet\_SetValue\_ValueSet( ) [inline]

6.10.1.5 void RollingRoad.Test.Unit.DomainModel.DataListTests.GetData\_NoDataAdded\_NoDataPresent( ) [inline]

6.10.1.6 void RollingRoad.Test.Unit.DomainModel.DataListTests.GetData\_OneDataAdded\_DataPresent( ) [inline]

6.10.1.7 void RollingRoad.Test.Unit.DomainModel.DataListTests.Id\_SetValue\_CorrectId( int id ) [inline]

6.10.1.8 void RollingRoad.Test.Unit.DomainModel.DataListTests.SetUp( ) [inline]

6.10.1.9 void RollingRoad.Test.Unit.DomainModel.DataListTests.Title\_NameAndUnitSet\_NameContainedInTitle( ) [inline]

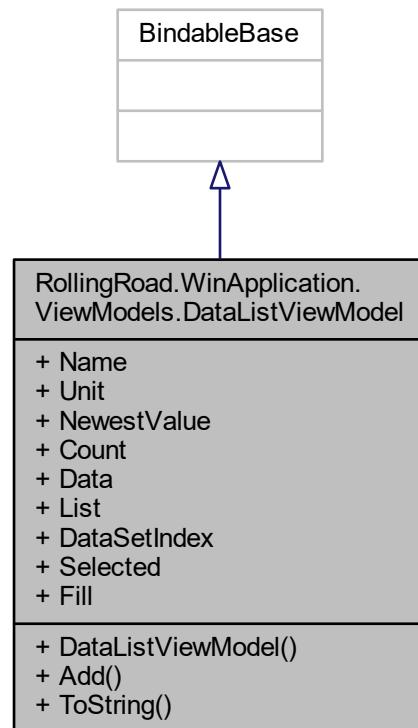
6.10.1.10 void RollingRoad.Test.Unit.DomainModel.DataListTests.Title\_NameAndUnitSet\_UnitContainedInTitle( ) [inline]

The documentation for this class was generated from the following file:

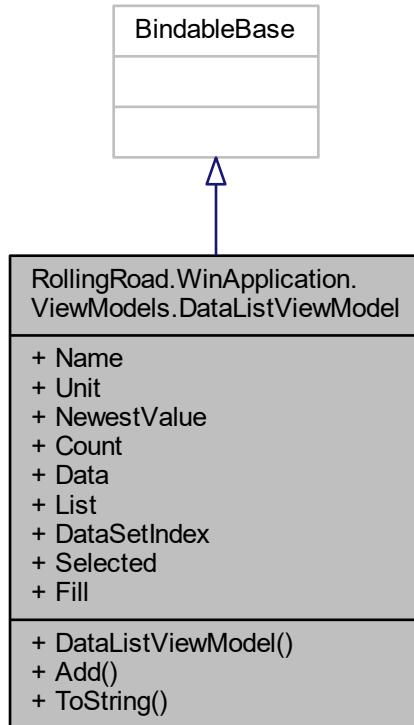
- [DataListTests.cs](#)

## 6.11 RollingRoad.WinApplication.ViewModels.DataListViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.DataListViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.DataListViewModel:



## Public Member Functions

- `DataListViewModel (DataList list)`
- `void Add (double value)`
- `override string ToString ()`

## Public Attributes

- `string Name => List.Name`
- `string Unit => List.Unit`
- `double NewestValue => List.Data.Last().Value`
- `int Count => List.Data.Count`
- `ICollection< DataPoint > Data => List.Data`

## Properties

- `DataList List [get]`
- `int DataSetIndex [get, set]`
- `bool Selected [get, set]`
- `Brush Fill [get, set]`

## 6.11.1 Constructor & Destructor Documentation

6.11.1.1 `RollingRoad.WinApplication.ViewModels.DataListViewModel.DataListViewModel ( DataTable list ) [inline]`

## 6.11.2 Member Function Documentation

6.11.2.1 `void RollingRoad.WinApplication.ViewModels.DataListViewModel.Add ( double value ) [inline]`

6.11.2.2 `override string RollingRoad.WinApplication.ViewModels.DataListViewModel.ToString ( ) [inline]`

## 6.11.3 Member Data Documentation

6.11.3.1 `int RollingRoad.WinApplication.ViewModels.DataListViewModel.Count => List.Data.Count`

6.11.3.2 `ICollection<DataPoint> RollingRoad.WinApplication.ViewModels.DataListViewModel.Data => List.Data`

6.11.3.3 `string RollingRoad.WinApplication.ViewModels.DataListViewModel.Name => List.Name`

6.11.3.4 `double RollingRoad.WinApplication.ViewModels.DataListViewModel.NewestValue => List.Data.Last().Value`

6.11.3.5 `string RollingRoad.WinApplication.ViewModels.DataListViewModel.Unit => List.Unit`

## 6.11.4 Property Documentation

6.11.4.1 `int RollingRoad.WinApplication.ViewModels.DataListViewModel.DataSetIndex [get], [set]`

6.11.4.2 `Brush RollingRoad.WinApplication.ViewModels.DataListViewModel.Fill [get], [set]`

6.11.4.3 `DataTable RollingRoad.WinApplication.ViewModels.DataListViewModel.List [get]`

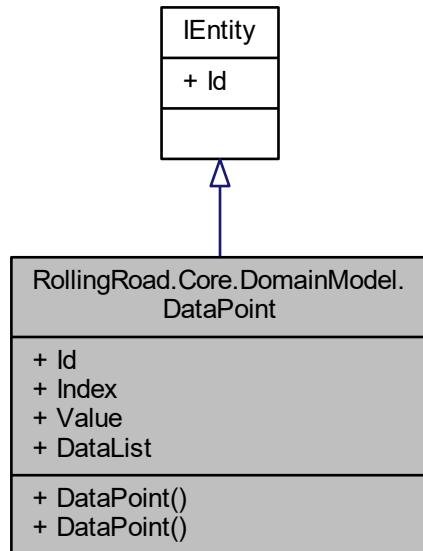
6.11.4.4 `bool RollingRoad.WinApplication.ViewModels.DataListViewModel.Selected [get], [set]`

The documentation for this class was generated from the following file:

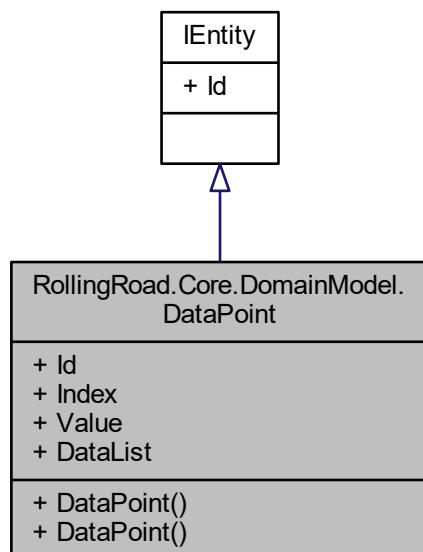
- [DataListViewModel.cs](#)

## 6.12 RollingRoad.Core.DomainModel.DataPoint Class Reference

Inheritance diagram for RollingRoad.Core.DomainModel.DataPoint:



Collaboration diagram for RollingRoad.Core.DomainModel.DataPoint:



## Public Member Functions

- [DataPoint \(\)](#)
- [DataPoint \(double value\)](#)

## Properties

- int [Id \[get, set\]](#)
- int [Index \[get, set\]](#)
- double [Value \[get, set\]](#)
- [DataList DataList \[get, set\]](#)

### 6.12.1 Constructor & Destructor Documentation

6.12.1.1 [RollingRoad.Core.DomainModel.DataPoint.DataPoint\( \) \[inline\]](#)

6.12.1.2 [RollingRoad.Core.DomainModel.DataPoint.DataPoint\( double value \) \[inline\]](#)

### 6.12.2 Property Documentation

6.12.2.1 [DataList RollingRoad.Core.DomainModel.DataPoint.DataList \[get\], \[set\]](#)

6.12.2.2 [int RollingRoad.Core.DomainModel.DataPoint.Id \[get\], \[set\]](#)

6.12.2.3 [int RollingRoad.Core.DomainModel.DataPoint.Index \[get\], \[set\]](#)

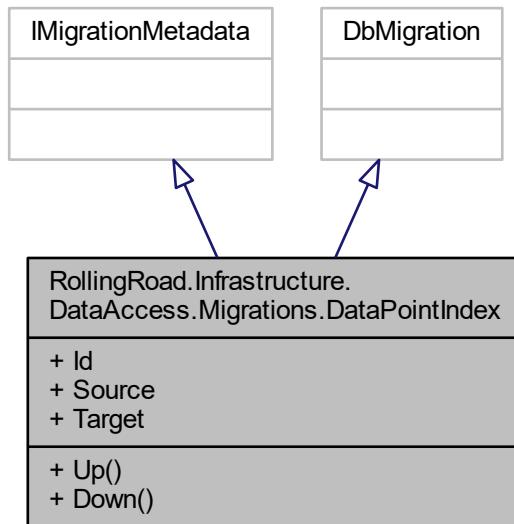
6.12.2.4 [double RollingRoad.Core.DomainModel.DataPoint.Value \[get\], \[set\]](#)

The documentation for this class was generated from the following file:

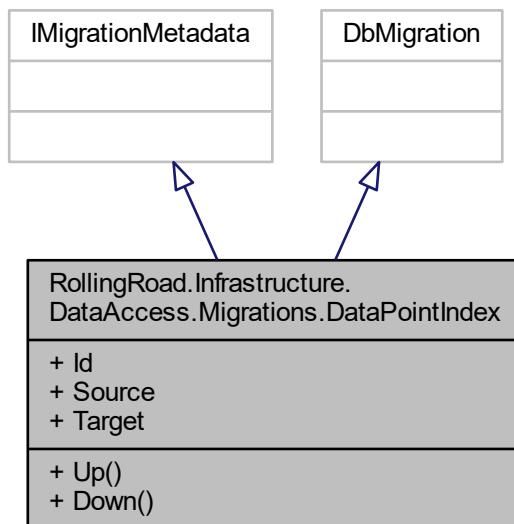
- [DataPoint.cs](#)

## 6.13 RollingRoad.Infrastructure.DataAccess.Migrations.DataPointIndex Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.Migrations.DataPointIndex:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.Migrations.DataPointIndex:



## Public Member Functions

- override void [Up \(\)](#)
- override void [Down \(\)](#)

### 6.13.1 Member Function Documentation

6.13.1.1 `override void RollingRoad.Infrastructure.DataAccess.Migrations.DataPointIndex.Down ( ) [inline]`

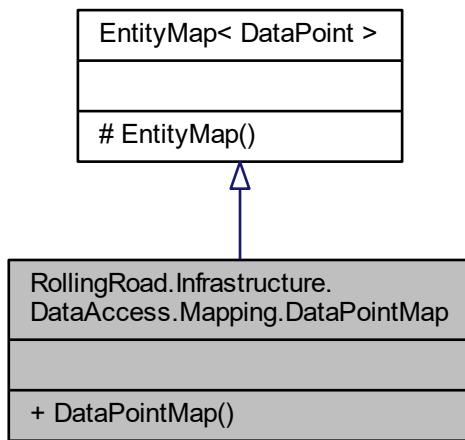
6.13.1.2 `override void RollingRoad.Infrastructure.DataAccess.Migrations.DataPointIndex.Up ( ) [inline]`

The documentation for this class was generated from the following files:

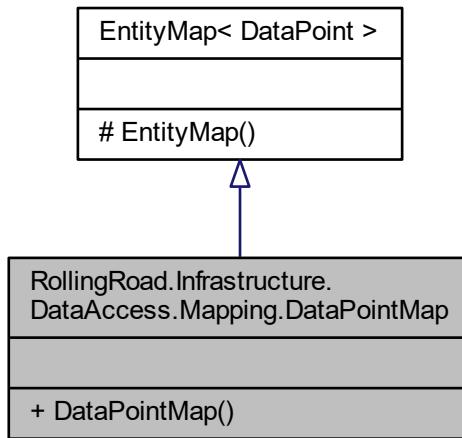
- [201604221324298\\_DataPointIndex.cs](#)
- [201604221324298\\_DataPointIndex.Designer.cs](#)

## 6.14 RollingRoad.Infrastructure.DataAccess.Mapping.DataPointMap Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.Mapping.DataPointMap:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.Mapping.DataPointMap:



## Public Member Functions

- [DataPointMap \(\)](#)

## Additional Inherited Members

### 6.14.1 Constructor & Destructor Documentation

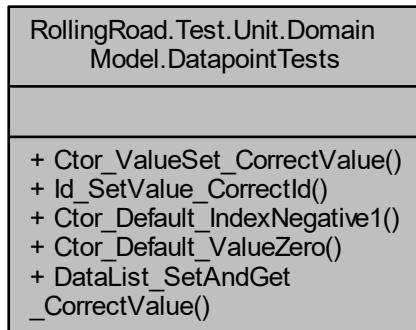
#### 6.14.1.1 RollingRoad.Infrastructure.DataAccess.Mapping.DataPointMap.DataPointMap ( ) [inline]

The documentation for this class was generated from the following file:

- [DataPointMap.cs](#)

## 6.15 RollingRoad.Test.Unit.DomainModel.DatapointTests Class Reference

Collaboration diagram for RollingRoad.Test.Unit.DomainModel.DatapointTests:



### Public Member Functions

- void [Ctor\\_ValueSet\\_CorrectValue \(\)](#)
- void [Id\\_SetValue\\_CorrectId \(int id\)](#)
- void [Ctor\\_Default\\_IndexNegative1 \(\)](#)
- void [Ctor\\_Default\\_ValueZero \(\)](#)
- void [DataList\\_SetAndGet\\_CorrectValue \(\)](#)

#### 6.15.1 Member Function Documentation

6.15.1.1 void RollingRoad.Test.Unit.DomainModel.DatapointTests.Ctor\_Default\_IndexNegative1 ( ) [inline]

6.15.1.2 void RollingRoad.Test.Unit.DomainModel.DatapointTests.Ctor\_Default\_ValueZero ( ) [inline]

6.15.1.3 void RollingRoad.Test.Unit.DomainModel.DatapointTests.Ctor\_ValueSet\_CorrectValue ( ) [inline]

6.15.1.4 void RollingRoad.Test.Unit.DomainModel.DatapointTests.DataList\_SetAndGet\_CorrectValue ( ) [inline]

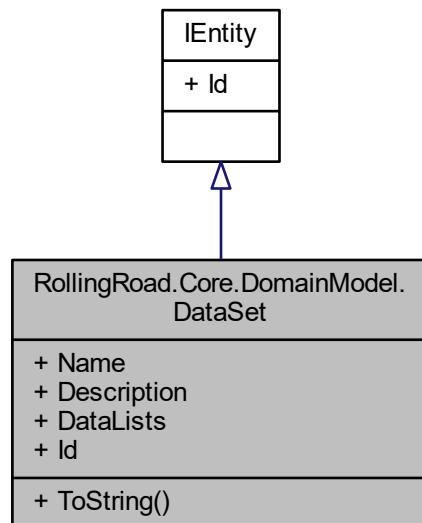
6.15.1.5 void RollingRoad.Test.Unit.DomainModel.DatapointTests.Id\_SetValue\_CorrectId ( int id ) [inline]

The documentation for this class was generated from the following file:

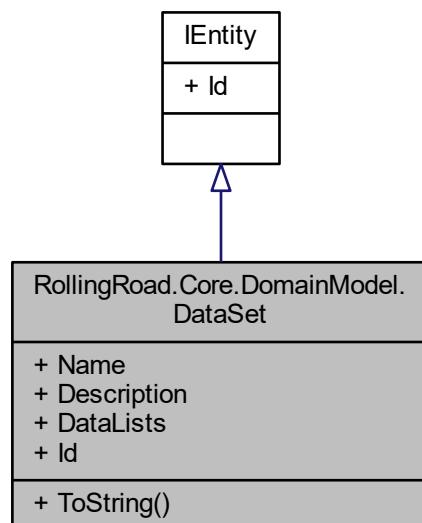
- [DataPointTests.cs](#)

## 6.16 RollingRoad.Core.DomainModel.DataSet Class Reference

Inheritance diagram for RollingRoad.Core.DomainModel.DataSet:



Collaboration diagram for RollingRoad.Core.DomainModel.DataSet:



## Public Member Functions

- override string [ToString \(\)](#)

## Properties

- string [Name](#) [get, set]  
*Name of the file*
- string [Description](#) [get, set]  
*Description written in the file*
- virtual ICollection<[DataList](#)> [DataLists](#) [get, set]
- int [Id](#) [get, set]

### 6.16.1 Member Function Documentation

6.16.1.1 override string [RollingRoad.Core.DomainModel.DataSet.ToString \( \)](#) [inline]

### 6.16.2 Property Documentation

6.16.2.1 virtual ICollection<[DataList](#)> [RollingRoad.Core.DomainModel.DataSet.DataLists](#) [get], [set]

6.16.2.2 string [RollingRoad.Core.DomainModel.DataSet.Description](#) [get], [set]

Description written in the file

6.16.2.3 int [RollingRoad.Core.DomainModel.DataSet.Id](#) [get], [set]

6.16.2.4 string [RollingRoad.Core.DomainModel.DataSet.Name](#) [get], [set]

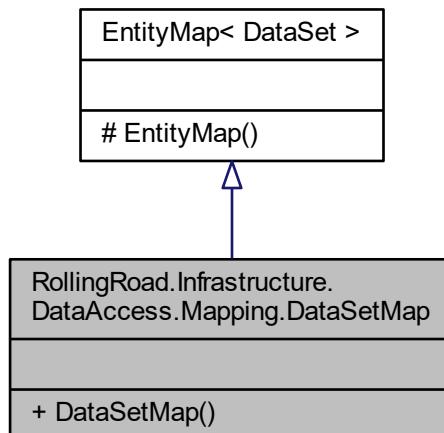
Name of the file

The documentation for this class was generated from the following file:

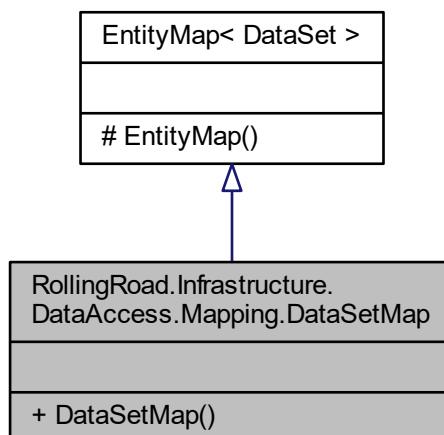
- [DataSet.cs](#)

## 6.17 RollingRoad.Infrastructure.DataAccess.Mapping.DataSetMap Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.Mapping.DataSetMap:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.Mapping.DataSetMap:



### Public Member Functions

- [DataSetMap \(\)](#)

## Additional Inherited Members

### 6.17.1 Constructor & Destructor Documentation

6.17.1.1 RollingRoad.Infrastructure.DataAccess.Mapping.DataSetMap.DataSetMap ( ) [inline]

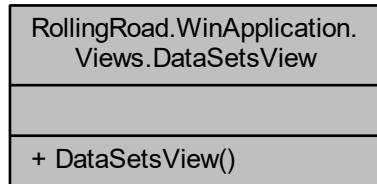
The documentation for this class was generated from the following file:

- [DataSetMap.cs](#)

## 6.18 RollingRoad.WinApplication.Views.DataSetsView Class Reference

Interaction logic for DataSetsView.xaml

Collaboration diagram for RollingRoad.WinApplication.Views.DataSetsView:



## Public Member Functions

- [DataSetsView \(\)](#)

### 6.18.1 Detailed Description

Interaction logic for DataSetsView.xaml

### 6.18.2 Constructor & Destructor Documentation

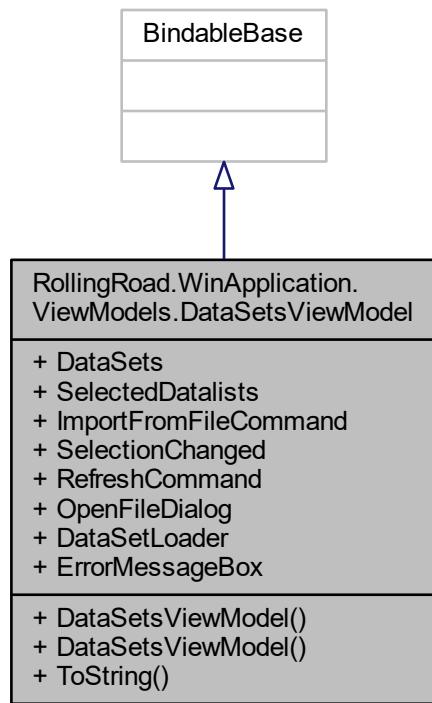
6.18.2.1 RollingRoad.WinApplication.Views.DataSetsView.DataSetsView ( ) [inline]

The documentation for this class was generated from the following file:

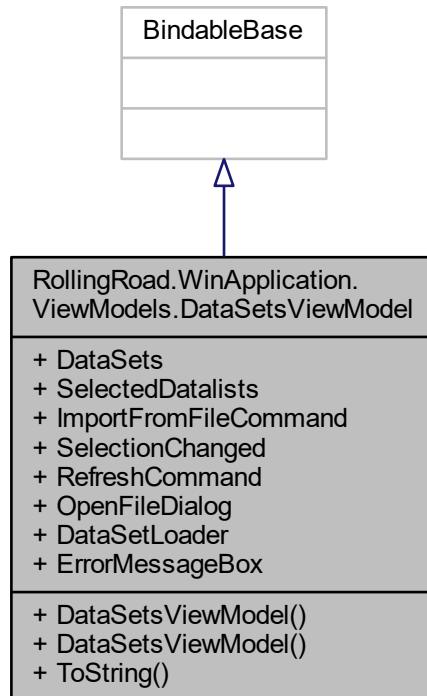
- [DataSetsView.xaml.cs](#)

## 6.19 RollingRoad.WinApplication.ViewModels.DataSetsViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.DataSetsViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.DataSetsViewModel:



## Public Member Functions

- [DataSetsViewModel \(\)](#)
- [DataSetsViewModel \( IRepository< DataSet > repository, IUnitOfWork unitOfWork\)](#)
- [override string ToString \(\)](#)

## Properties

- [ObservableCollection< DataSetViewModel > DataSets \[get\]](#)
- [ObservableCollection< ListViewModel > SelectedDatalists = new ObservableCollection< DataSetViewModel >\(\) \[get\]](#)
- [ICommand ImportFromFileCommand = new ObservableCollection< ListViewModel >\(\) \[get\]](#)
- [ICommand SelectionChanged \[get\]](#)
- [ICommand RefreshCommand \[get\]](#)
- [IOpenFileDialog OpenFileDialog \[get, set\]](#)
- [IDatasetDataFile DataSetLoader \[get, set\]](#)
- [IErrorMessageBox ErrorMessageBox \[get, set\]](#)

## 6.19.1 Constructor & Destructor Documentation

6.19.1.1 RollingRoad.WinApplication.ViewModels.DataSetsViewModel.DataSetsViewModel ( ) [inline]

6.19.1.2 RollingRoad.WinApplication.ViewModels.DataSetsViewModel.DataSetsViewModel ( IRepository< DataSet > repository, IUnitOfWork unitOfWork ) [inline]

## 6.19.2 Member Function Documentation

6.19.2.1 override string RollingRoad.WinApplication.ViewModels.DataSetsViewModel.ToString ( ) [inline]

## 6.19.3 Property Documentation

6.19.3.1 IDataSetDataFile RollingRoad.WinApplication.ViewModels.DataSetsViewModel.DataSetLoader [get], [set]

6.19.3.2 ObservableCollection<DataSetViewModel> RollingRoad.WinApplication.ViewModels.DataSetsViewModel.DataSets [get]

6.19.3.3 IErrorMessageBox RollingRoad.WinApplication.ViewModels.DataSetsViewModel.ErrorMessageBox [get], [set]

6.19.3.4 ICommand RollingRoad.WinApplication.ViewModels.DataSetsViewModel.ImportFromFileCommand = new ObservableCollection<DataListViewModel>() [get]

6.19.3.5 IOpenFileDialog RollingRoad.WinApplication.ViewModels.DataSetsViewModel.OpenFileDialog [get], [set]

6.19.3.6 ICommand RollingRoad.WinApplication.ViewModels.DataSetsViewModel.RefreshCommand [get]

6.19.3.7 ObservableCollection<DataListViewModel> RollingRoad.WinApplication.ViewModels.DataSetsViewModel.SelectedDatalists = new ObservableCollection<DataSetViewModel>() [get]

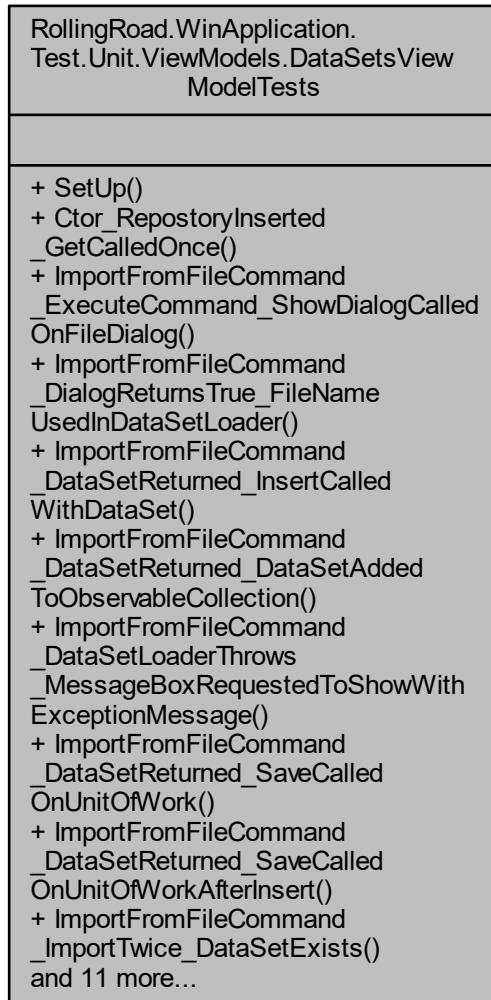
6.19.3.8 ICommand RollingRoad.WinApplication.ViewModels.DataSetsViewModel.SelectionChanged [get]

The documentation for this class was generated from the following file:

- [DataSetsViewModel.cs](#)

## 6.20 RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests Class Reference

Collaboration diagram for RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests:



### Public Member Functions

- void [SetUp \(\)](#)
- void [Ctor\\_RepostoryInserted\\_GetCalledOnce \(\)](#)
- void [ImportFromFileCommand\\_ExecuteCommand\\_ShowDialogCalledOnFileDialog \(\)](#)
- void [ImportFromFileCommand\\_DialogReturnsTrue\\_FileNameUsedInDataSetLoader \(string filename\)](#)
- void [ImportFromFileCommand\\_DataSetReturned\\_InsertCalledWithDataSet \(\)](#)
- void [ImportFromFileCommand\\_DataSetReturned\\_DataSetAddedToObservableCollection \(\)](#)
- void [ImportFromFileCommand\\_DataSetLoaderThrows\\_MessageBoxRequestedToShowWithExceptionMessage \(\)](#)

- void ImportFromFileCommand\_DataSetReturned\_SaveCalledOnUnitOfWork ()
- void ImportFromFileCommand\_DataSetReturned\_SaveCalledOnUnitOfWorkAfterInsert ()
- void ImportFromFileCommand\_ImportTwice\_DataSetExists (string description)
- void RefreshCommand\_Execute\_GetCalledOnRepository ()
- void RefreshCommand\_ExecuteWithOneDatasetInRepository\_DataSetPresentInDataSets ()
- void RefreshCommand\_ExecuteWithMultipleDatasetsInRepository\_DataSetPresentInDataSets (int count)
- void SelectionChangedCommand\_NoDataSets\_SelectedDataListsIsEmpty ()
- void SelectionChangedCommand\_OneDataSetWithListsButNotSelected\_SelectetdDataListsIsEmpty ()
- void SelectionChangedCommand\_OneDataSetWithOneSelectedList\_SelectedListIsInSelected ()
- void DataSetLoader\_SetNull\_ExceptionThrown ()
- void ErrorMessageBox\_SetNull\_ExceptionThrown ()
- void OpenFileDialog\_SetNull\_ExceptionThrown ()
- void Ctor\_RepositoryNull\_ExceptionThrown ()
- void ToString\_NothingDone\_DescriptiveText ()

## 6.20.1 Member Function Documentation

6.20.1.1 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.Ctor\_RepositoryNull\_ExceptionThrown ( ) [inline]

6.20.1.2 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.Ctor\_RepostoryInserted\_GetCalledOnce ( ) [inline]

6.20.1.3 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.DataSetLoader\_SetNull\_ExceptionThrown ( ) [inline]

6.20.1.4 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ErrorMessageBox\_SetNull\_ExceptionThrown ( ) [inline]

6.20.1.5 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ImportFromFileDialogCommand\_DataSetLoaderThrows\_MessageBoxRequestedToShowWithExceptionMessage ( ) [inline]

6.20.1.6 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ImportFromFileCommand\_DataSetReturned\_DataSetAddedToObservableCollection ( ) [inline]

6.20.1.7 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ImportFromFileCommand\_DataSetReturned\_InsertCalledWithDataSet ( ) [inline]

6.20.1.8 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ImportFromFileCommand\_DataSetReturned\_SaveCalledOnUnitOfWork ( ) [inline]

6.20.1.9 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ImportFromFileCommand\_DataSetReturned\_SaveCalledOnUnitOfWorkAfterInsert ( ) [inline]

6.20.1.10 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ImportFromFileCommand\_DialogReturnsTrue\_FileNameUsedInDataSetLoader ( string *filename* ) [inline]

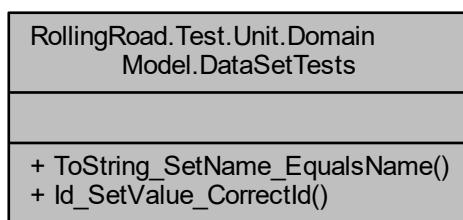
- 6.20.1.11 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ImportFromFileCommand\_←  
ExecuteCommand\_ShowDialogCalledOnFileDialog( ) [inline]
- 6.20.1.12 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ImportFromFileCommand\_Import←  
Twice\_DataSetExists( string *description* ) [inline]
- 6.20.1.13 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.OpenFileDialog\_SetNull\_←  
ExceptionThrown( ) [inline]
- 6.20.1.14 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.RefreshCommand\_Execute\_←  
CalledOnRepository( ) [inline]
- 6.20.1.15 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.Refresh←  
Command\_ExecuteWithMultipleDatasetsInRepository\_DataSetPresentInDataSets( int *count* )  
[inline]
- 6.20.1.16 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.RefreshCommand\_ExecuteWith←  
OneDatasetInRepository\_DataSetPresentInDataSets( ) [inline]
- 6.20.1.17 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.SelectionChangedCommand\_No←  
DataSets\_SelectedDataListsIsEmpty( ) [inline]
- 6.20.1.18 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.Selection←  
ChangedCommand\_OneDataSetWithListsButNotSelected\_SelectetdDataListsIsEmpty( )  
[inline]
- 6.20.1.19 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.SelectionChangedCommand\_One←  
DataSetWithOneSelectedList\_SelectedListIsInSelected( ) [inline]
- 6.20.1.20 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.SetUp( ) [inline]
- 6.20.1.21 void RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests.ToString\_NothingDone\_←  
DescriptiveText( ) [inline]

The documentation for this class was generated from the following file:

- [DataSetsViewModelTests.cs](#)

## 6.21 RollingRoad.Test.Unit.DomainModel.DataSetTests Class Reference

Collaboration diagram for RollingRoad.Test.Unit.DomainModel.DataSetTests:



## Public Member Functions

- void [ToString\\_SetName\\_EqualsName \(\)](#)
- void [Id\\_SetValue\\_CorrectId \(int id\)](#)

### 6.21.1 Member Function Documentation

6.21.1.1 void RollingRoad.Test.Unit.DomainModel.DataSetTests.Id\_SetValue\_CorrectId ( int *id* ) [inline]

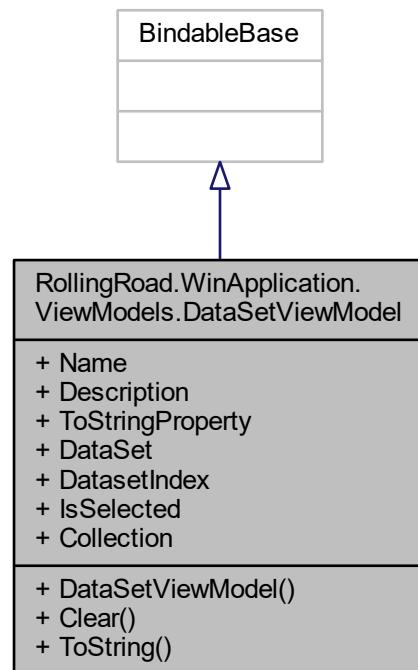
6.21.1.2 void RollingRoad.Test.Unit.DomainModel.DataSetTests.ToString\_SetName\_EqualsName ( ) [inline]

The documentation for this class was generated from the following file:

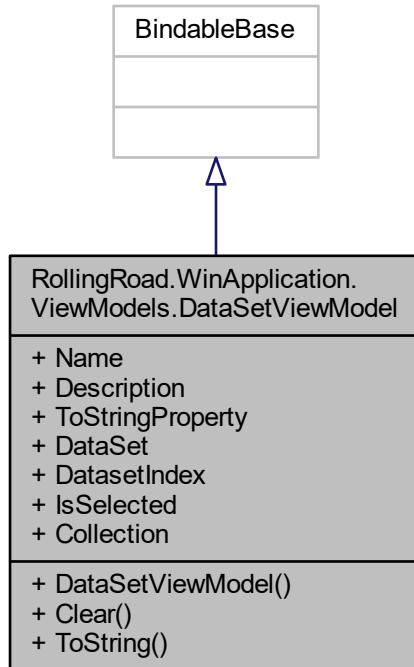
- [DatasetTests.cs](#)

## 6.22 RollingRoad.WinApplication.ViewModels.DataSetViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.DataSetViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.DataSetViewModel:



## Public Member Functions

- `DataSetViewModel (DataSet dataset)`
- void `Clear ()`
- override string `ToString ()`

## Public Attributes

- string `Name` => `DataSet.Name`
- string `Description` => `DataSet.Description`
- string `ToStringProperty` => `ToString()`

## Properties

- int `DatasetIndex` [get, set]
- bool `IsSelected` [get, set]
- `ObservableCollection<DataListViewModel> Collection` [get]

## 6.22.1 Constructor & Destructor Documentation

6.22.1.1 RollingRoad.WinApplication.ViewModels.DataSetViewModel.DataSetViewModel ( `DataSet dataset` ) [inline]

## 6.22.2 Member Function Documentation

6.22.2.1 `void RollingRoad.WinApplication.ViewModels.DataSetViewModel.Clear()` [inline]

6.22.2.2 `override string RollingRoad.WinApplication.ViewModels.DataSetViewModel.ToString()` [inline]

## 6.22.3 Member Data Documentation

6.22.3.1 `string RollingRoad.WinApplication.ViewModels.DataSetViewModel.Description => DataSet.Description`

6.22.3.2 `string RollingRoad.WinApplication.ViewModels.DataSetViewModel.Name => DataSet.Name`

6.22.3.3 `string RollingRoad.WinApplication.ViewModels.DataSetViewModel.ToStringProperty => ToString()`

## 6.22.4 Property Documentation

6.22.4.1 `ObservableCollection<DataListViewModel> RollingRoad.WinApplication.ViewModels.DataSetViewModel.Collection [get]`

6.22.4.2 `int RollingRoad.WinApplication.ViewModels.DataSetViewModel.DatasetIndex [get], [set]`

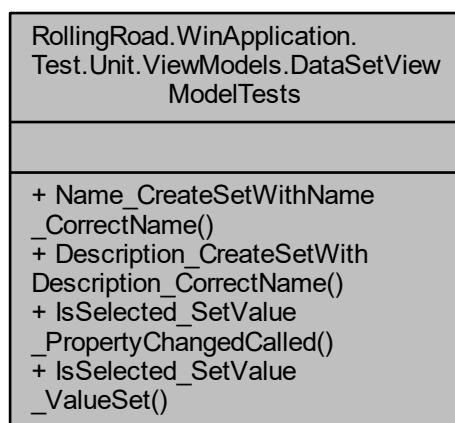
6.22.4.3 `bool RollingRoad.WinApplication.ViewModels.DataSetViewModel.IsSelected [get], [set]`

The documentation for this class was generated from the following file:

- [DataSetViewModel.cs](#)

## 6.23 RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetViewModelTests Class Reference

Collaboration diagram for RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetViewModelTests:



## Public Member Functions

- void [Name\\_CreateSetName\\_CorrectName](#) (string name)
- void [Description\\_CreateSetWithDescription\\_CorrectName](#) (string description)
- void [IsSelected\\_SetValue\\_PropertyChangedCalled](#) ()
- void [IsSelected\\_SetValue\\_ValueSet](#) (bool values)

### 6.23.1 Member Function Documentation

6.23.1.1 void [RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetViewModelTests.Description\\_CreateSetWithDescription\\_CorrectName](#) ( string *description* ) [inline]

6.23.1.2 void [RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetViewModelTests.IsSelected\\_SetValue\\_PropertyChangedCalled](#) ( ) [inline]

6.23.1.3 void [RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetViewModelTests.IsSelected\\_SetValue\\_ValueSet](#) ( bool *values* ) [inline]

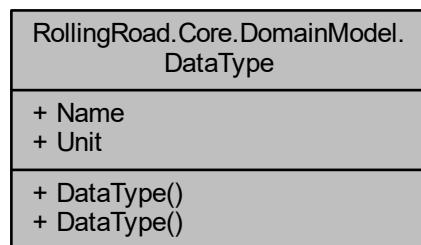
6.23.1.4 void [RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetViewModelTests.Name\\_CreateSetName\\_CorrectName](#) ( string *name* ) [inline]

The documentation for this class was generated from the following file:

- [DataSetViewModelTests.cs](#)

## 6.24 RollingRoad.Core.DomainModel.DataType Class Reference

Collaboration diagram for RollingRoad.Core.DomainModel.DataType:



## Public Member Functions

- [DataType](#) ()
- [DataType](#) (string name, string unit)

## Properties

- string [Name](#) [get, set]
- string [Unit](#) [get, set]

### 6.24.1 Constructor & Destructor Documentation

6.24.1.1 `RollingRoad.Core.DomainModel.DataType.DataType( )` [inline]

6.24.1.2 `RollingRoad.Core.DomainModel.DataType.DataType( string name, string unit )` [inline]

### 6.24.2 Property Documentation

6.24.2.1 `string RollingRoad.Core.DomainModel.DataType.Name` [get], [set]

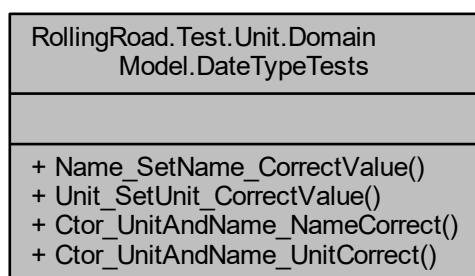
6.24.2.2 `string RollingRoad.Core.DomainModel.DataType.Unit` [get], [set]

The documentation for this class was generated from the following file:

- [DataType.cs](#)

## 6.25 RollingRoad.Test.Unit.DomainModel.DateTypeTests Class Reference

Collaboration diagram for RollingRoad.Test.Unit.DomainModel.DateTypeTests:



### Public Member Functions

- void [Name\\_SetName\\_CorrectValue](#) (string name)
- void [Unit\\_SetUnit\\_CorrectValue](#) (string unit)
- void [Ctor\\_UnitAndName\\_NameCorrect](#) ()
- void [Ctor\\_UnitAndName\\_UnitCorrect](#) ()

### 6.25.1 Member Function Documentation

6.25.1.1 void RollingRoad.Test.Unit.DomainModel.DateTypeTests.Ctor\_UnitAndName\_NameCorrect( ) [inline]

6.25.1.2 void RollingRoad.Test.Unit.DomainModel.DateTypeTests.Ctor\_UnitAndName\_UnitCorrect( ) [inline]

6.25.1.3 void RollingRoad.Test.Unit.DomainModel.DateTypeTests.Name\_SetName\_CorrectValue( string *name* ) [inline]

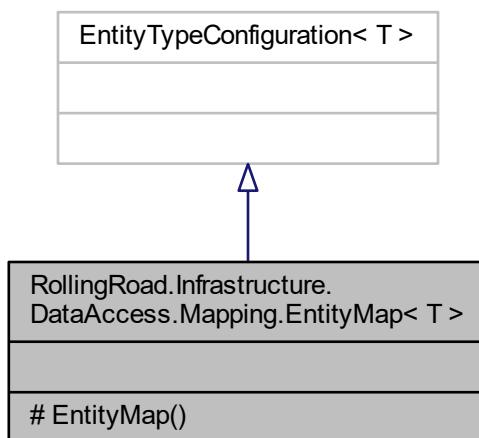
6.25.1.4 void RollingRoad.Test.Unit.DomainModel.DateTypeTests.Unit\_SetUnit\_CorrectValue( string *unit* ) [inline]

The documentation for this class was generated from the following file:

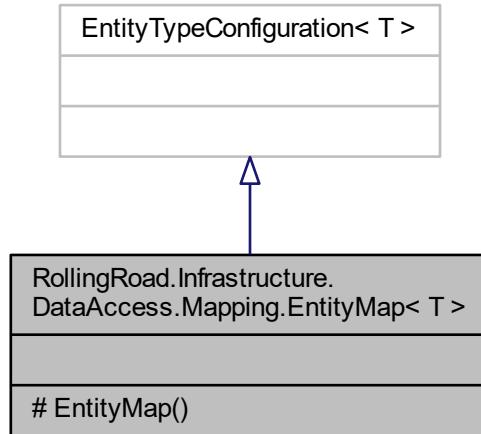
- [DateTypeTests.cs](#)

## 6.26 RollingRoad.Infrastructure.DataAccess.Mapping.EntityMap< T > Class Template Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.Mapping.EntityMap< T >:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.Mapping.EntityMap< T >:



## Protected Member Functions

- [EntityMap \(\)](#)

### 6.26.1 Constructor & Destructor Documentation

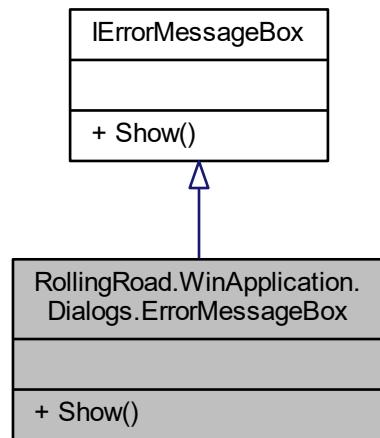
6.26.1.1 **RollingRoad.Infrastructure.DataAccess.Mapping.EntityMap< T >.EntityMap( ) [inline], [protected]**

The documentation for this class was generated from the following file:

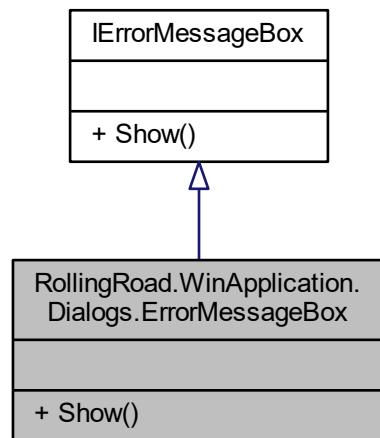
- [EntityMap.cs](#)

## 6.27 RollingRoad.WinApplication.Dialogs.ErrorMessageBox Class Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.ErrorMessageBox:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.ErrorMessageBox:



### Public Member Functions

- void [Show](#) (string title, string message)

### 6.27.1 Member Function Documentation

6.27.1.1 void RollingRoad.WinApplication.Dialogs.ErrorMessageBox.Show ( string *title*, string *message* ) [inline]

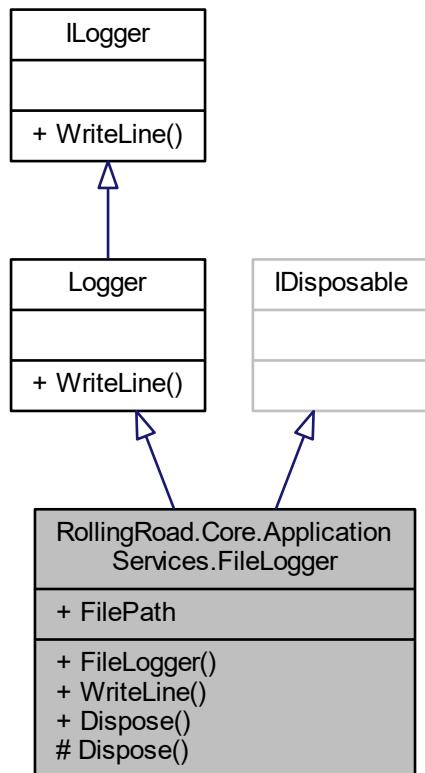
Implements [RollingRoad.WinApplication.Dialogs.IErrorMessageBox](#).

The documentation for this class was generated from the following file:

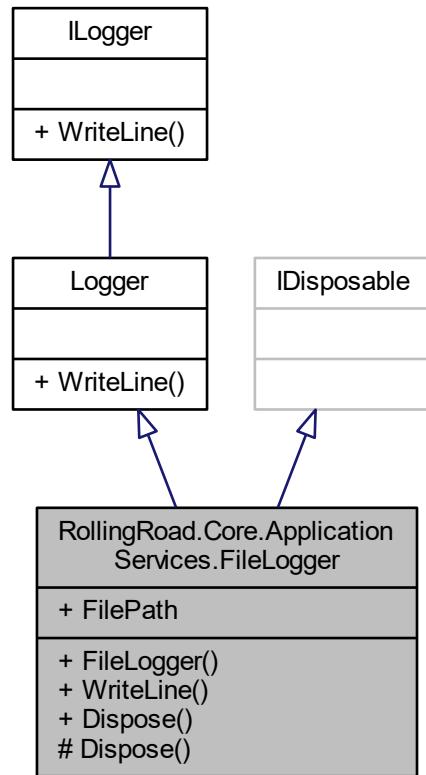
- [ErrorMessageBox.cs](#)

## 6.28 RollingRoad.Core.ApplicationServices.FileLogger Class Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.FileLogger:



Collaboration diagram for RollingRoad.Core.ApplicationServices.FileLogger:



## Public Member Functions

- `FileLogger` (string path)
- override void `WriteLine` (string line)  
*Write to log*
- void `Dispose` ()

## Protected Member Functions

- virtual void `Dispose` (bool disposing)

## Properties

- string `FilePath` [get ]

## Additional Inherited Members

### 6.28.1 Constructor & Destructor Documentation

6.28.1.1 `RollingRoad.Core.ApplicationServices.FileLogger.FileLogger ( string path ) [inline]`

### 6.28.2 Member Function Documentation

6.28.2.1 `void RollingRoad.Core.ApplicationServices.FileLogger.Dispose ( ) [inline]`

6.28.2.2 `virtual void RollingRoad.Core.ApplicationServices.FileLogger.Dispose ( bool disposing ) [inline], [protected], [virtual]`

6.28.2.3 `override void RollingRoad.Core.ApplicationServices.FileLogger.WriteLine ( string line ) [inline], [virtual]`

Write to log

Parameters

<code>line</code>	Line to write
-------------------	---------------

Reimplemented from [RollingRoad.Core.ApplicationServices.Logger](#).

### 6.28.3 Property Documentation

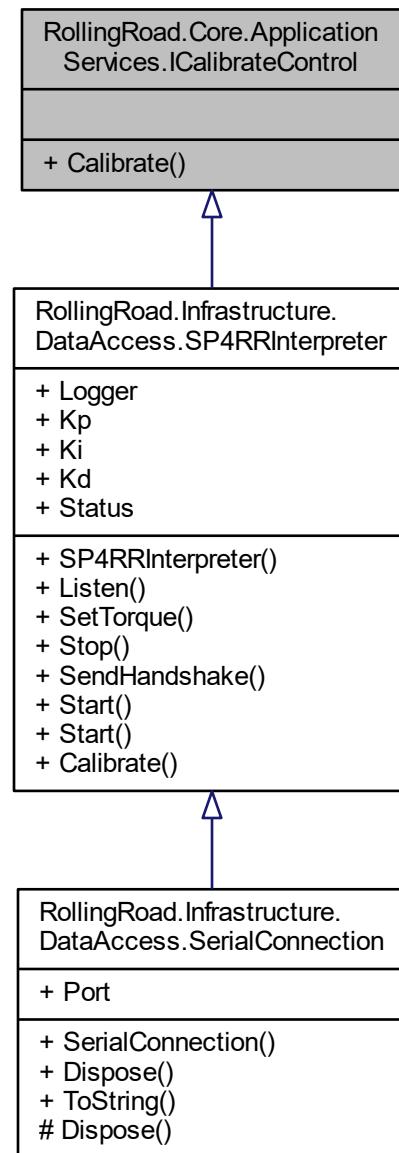
6.28.3.1 `string RollingRoad.Core.ApplicationServices.FileLogger.FilePath [get]`

The documentation for this class was generated from the following file:

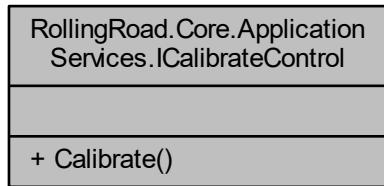
- [FileLogger.cs](#)

## 6.29 RollingRoad.Core.ApplicationServices.ICalibrateControl Interface Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.ICalibrateControl:



Collaboration diagram for RollingRoad.Core.ApplicationServices.ICalibrateControl:



## Public Member Functions

- void [Calibrate \(\)](#)

### 6.29.1 Member Function Documentation

#### 6.29.1.1 void RollingRoad.Core.ApplicationServices.ICalibrateControl.Calibrate ( )

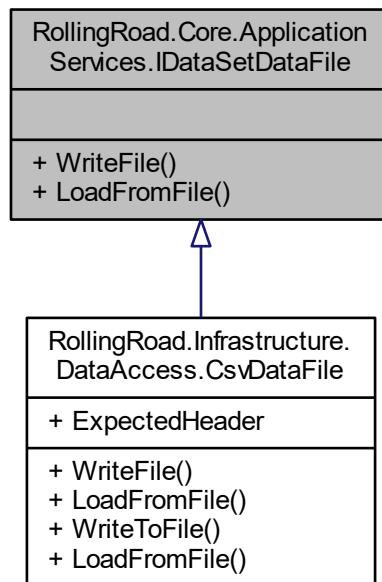
Implemented in [RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter](#).

The documentation for this interface was generated from the following file:

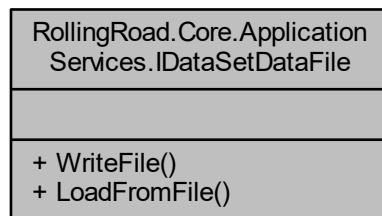
- [ICalibrateControl.cs](#)

## 6.30 RollingRoad.Core.ApplicationServices.IDataSetDataFile Interface Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.IDataSetDataFile:



Collaboration diagram for RollingRoad.Core.ApplicationServices.IDataSetDataFile:



### Public Member Functions

- void [WriteFile](#) (string path, [DataSet](#) dataset, string header)
- [DataSet LoadFromFile](#) (string path)

### 6.30.1 Member Function Documentation

6.30.1.1 `DataSet RollingRoad.Core.ApplicationServices.IDataSetDataFile.LoadFromFile ( string path )`

Implemented in [RollingRoad.Infrastructure.DataAccess.CsvDataFile](#).

6.30.1.2 `void RollingRoad.Core.ApplicationServices.IDataSetDataFile.WriteFile ( string path, DataSet dataset, string header )`

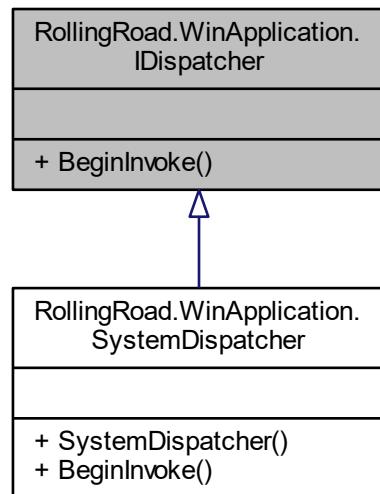
Implemented in [RollingRoad.Infrastructure.DataAccess.CsvDataFile](#).

The documentation for this interface was generated from the following file:

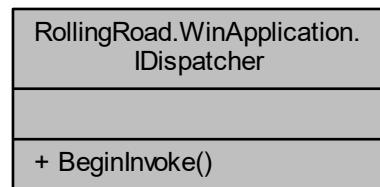
- [IDataSetDataFile.cs](#)

## 6.31 RollingRoad.WinApplication.IDispatcher Interface Reference

Inheritance diagram for RollingRoad.WinApplication.IDispatcher:



Collaboration diagram for RollingRoad.WinApplication.IDispatcher:



## Public Member Functions

- void [BeginInvoke](#) (DispatcherPriority prio, Delegate method)

### 6.31.1 Member Function Documentation

6.31.1.1 void RollingRoad.WinApplication.IDispatcher.BeginInvoke ( DispatcherPriority *prio*, Delegate *method* )

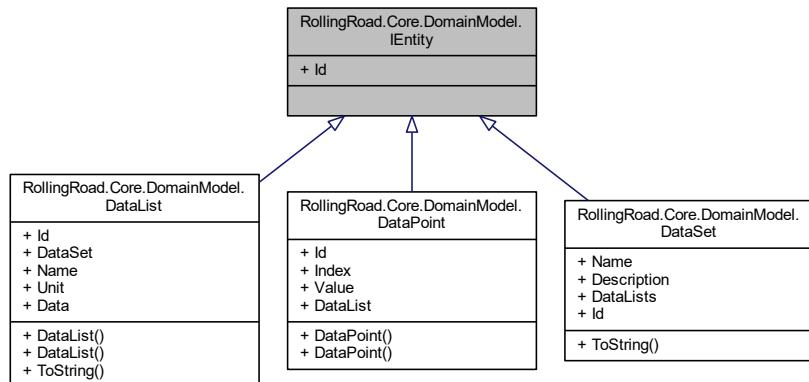
Implemented in [RollingRoad.WinApplication.SystemDispatcher](#).

The documentation for this interface was generated from the following file:

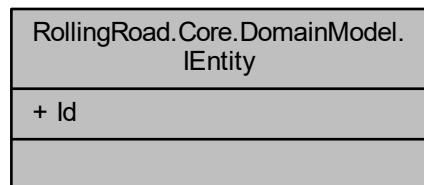
- [IDispatcher.cs](#)

## 6.32 RollingRoad.Core.DomainModel.IEntity Interface Reference

Inheritance diagram for RollingRoad.Core.DomainModel.IEntity:



Collaboration diagram for RollingRoad.Core.DomainModel.IEntity:



## Properties

- int `Id` [get, set]

### 6.32.1 Property Documentation

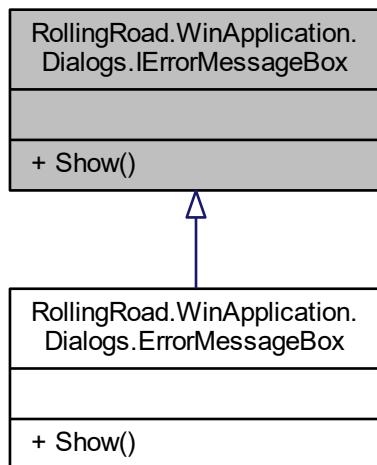
#### 6.32.1.1 int RollingRoad.Core.DomainModel.IEntity.Id [get], [set]

The documentation for this interface was generated from the following file:

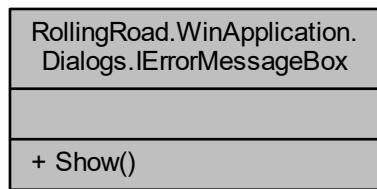
- [IEntity.cs](#)

## 6.33 RollingRoad.WinApplication.Dialogs.IErrorMessageBox Interface Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.IErrorMessageBox:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.IErrorMessageBox:



## Public Member Functions

- void [Show](#) (string title, string message)

### 6.33.1 Member Function Documentation

6.33.1.1 void RollingRoad.WinApplication.Dialogs.IErrorMessageBox.Show ( string *title*, string *message* )

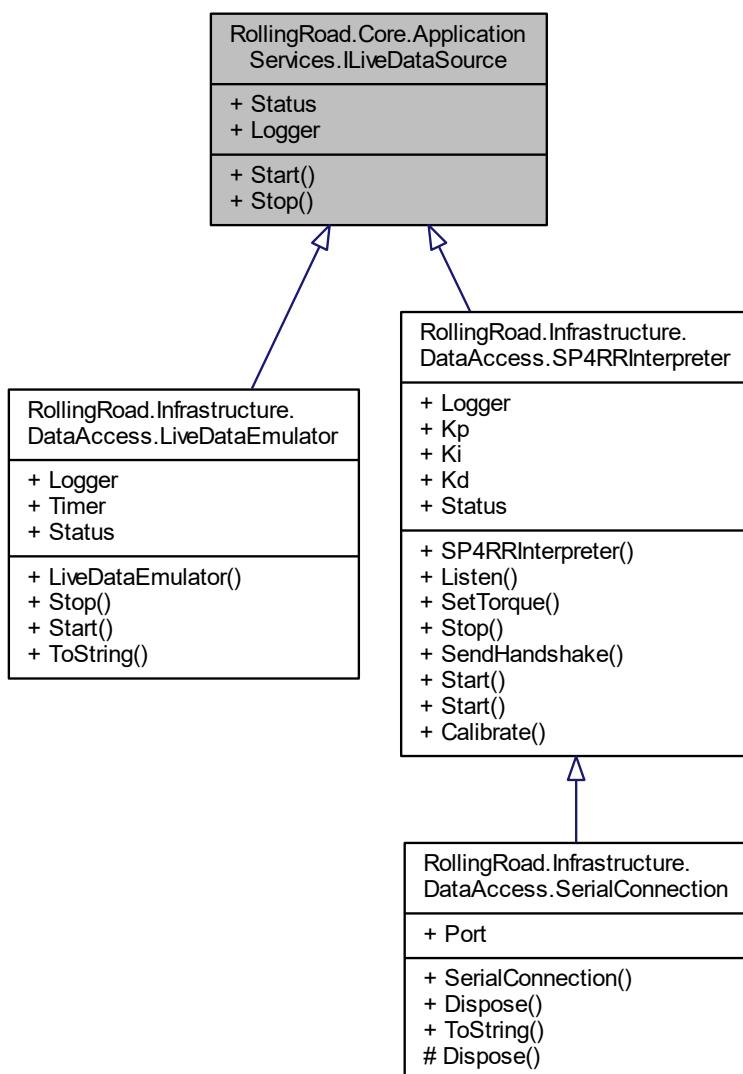
Implemented in [RollingRoad.WinApplication.Dialogs.ErrorMessageBox](#).

The documentation for this interface was generated from the following file:

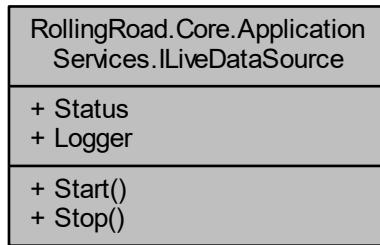
- [IErrorMessageBox.cs](#)

## 6.34 RollingRoad.Core.ApplicationServices.ILiveDataSource Interface Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.ILiveDataSource:



Collaboration diagram for RollingRoad.Core.ApplicationServices.ILiveDataSource:



## Public Member Functions

- void [Start \(\)](#)  
*Starts the transmission/recieving of data*
- void [Stop \(\)](#)  
*Stops the transmission/recieving of data*

## Properties

- [LiveDataSourceStatus Status](#) [get]
- [ILogger Logger](#) [set]  
*Logger used*

## Events

- [EventHandler< LiveDataPointsEventArgs > OnNextReadValue](#)  
*Updated each time a fullset om data has been received.*
- [OnStatusUpdate OnStatusChange](#)

### 6.34.1 Member Function Documentation

#### 6.34.1.1 void RollingRoad.Core.ApplicationServices.ILiveDataSource.Start ( )

Starts the transmission/recieving of data

Implemented in [RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter](#), and [RollingRoad.Infrastructure.DataAccess.LiveDataEmulator](#).

**6.34.1.2 void RollingRoad.Core.ApplicationServices.ILiveDataSource.Stop( )**

Stops the transmission/recieving of data

Implemented in [RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter](#), and [RollingRoad.Infrastructure.DataAccess.LiveDataEmulator](#).

**6.34.2 Property Documentation****6.34.2.1 ILogger RollingRoad.Core.ApplicationServices.ILiveDataSource.Logger [set]**

[Logger](#) used

**6.34.2.2 LiveDataDataSourceStatus RollingRoad.Core.ApplicationServices.ILiveDataSource.Status [get]****6.34.3 Event Documentation****6.34.3.1 EventHandler<LiveDataPointsEventArgs> RollingRoad.Core.ApplicationServices.ILiveDataSource.OnNext→ReadValue**

Updated each time a fullset om data has been recived.

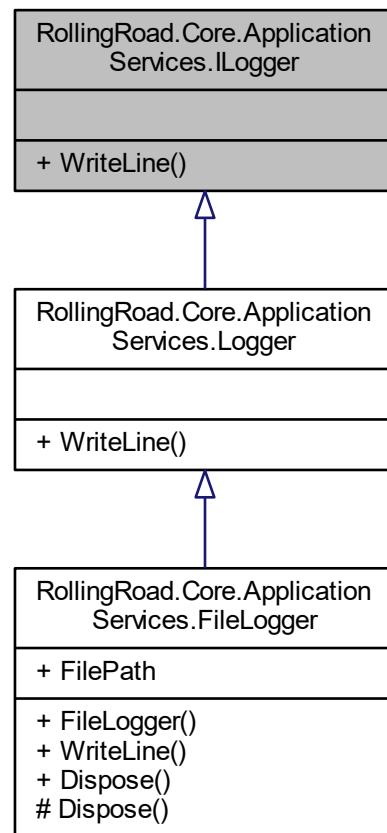
**6.34.3.2 OnStatusUpdate RollingRoad.Core.ApplicationServices.ILiveDataSource.OnStatusChange**

The documentation for this interface was generated from the following file:

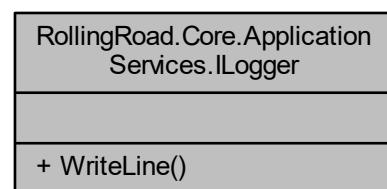
- [ILiveDataSource.cs](#)

## 6.35 RollingRoad.Core.ApplicationServices.ILogger Interface Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.ILogger:



Collaboration diagram for RollingRoad.Core.ApplicationServices.ILogger:



## Public Member Functions

- void [WriteLine](#) (string line)  
*Write a line to the log. (Appends newline)*

## Events

- EventHandler< string > [OnLog](#)  
*Event that may be called on line received*

### 6.35.1 Member Function Documentation

#### 6.35.1.1 void RollingRoad.Core.ApplicationServices.ILogger.WriteLine ( string line )

Write a line to the log. (Appends newline)

##### Parameters

<i>line</i>	<input type="text"/>
-------------	----------------------

Implemented in [RollingRoad.Core.ApplicationServices.FileLogger](#), and [RollingRoad.Core.ApplicationServices.Logger](#).

### 6.35.2 Event Documentation

#### 6.35.2.1 EventHandler<string> RollingRoad.Core.ApplicationServices.ILogger.OnLog

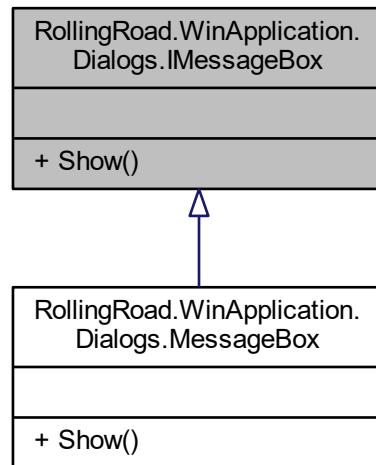
Event that may be called on line received

The documentation for this interface was generated from the following file:

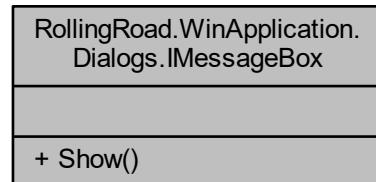
- [ILogger.cs](#)

## 6.36 RollingRoad.WinApplication.Dialogs.MessageBox Interface Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.MessageBox:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.MessageBox:



### Public Member Functions

- MessageBoxResult [Show](#) (string title, string message, MessageBoxButton button, MessageBoxImage image)

#### 6.36.1 Member Function Documentation

6.36.1.1 MessageBoxResult [RollingRoad.WinApplication.Dialogs.MessageBox.Show](#) ( string *title*, string *message*, MessageBoxButton *button*, MessageBoxImage *image* )

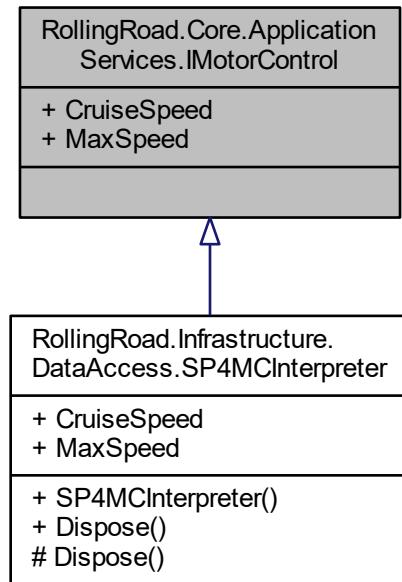
Implemented in [RollingRoad.WinApplication.Dialogs.MessageBox](#).

The documentation for this interface was generated from the following file:

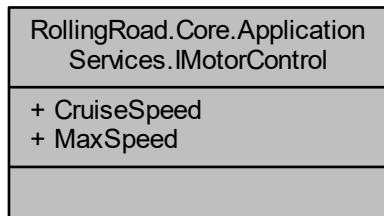
- [IMessageBox.cs](#)

## 6.37 RollingRoad.Core.ApplicationServices.IMotorControl Interface Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.IMotorControl:



Collaboration diagram for RollingRoad.Core.ApplicationServices.IMotorControl:



### Properties

- int `CruiseSpeed` [get, set]
- int `MaxSpeed` [get, set]

### 6.37.1 Property Documentation

6.37.1.1 int RollingRoad.Core.ApplicationServices.IMotorControl.CruiseSpeed [get], [set]

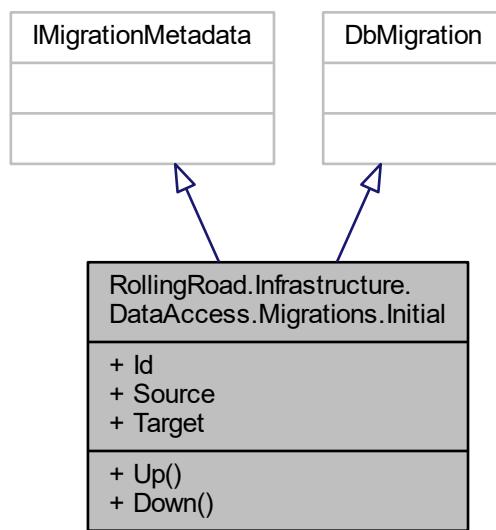
6.37.1.2 int RollingRoad.Core.ApplicationServices.IMotorControl.MaxSpeed [get], [set]

The documentation for this interface was generated from the following file:

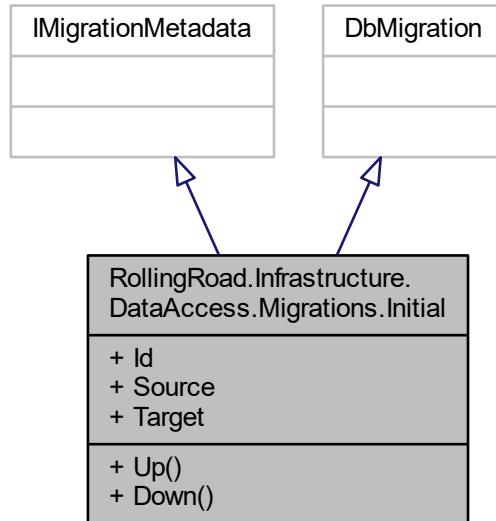
- [IMotorControl.cs](#)

## 6.38 RollingRoad.Infrastructure.DataAccess.Migrations.Initial Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.Migrations.Initial:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.Migrations.Initial:



## Public Member Functions

- override void [Up \(\)](#)
- override void [Down \(\)](#)

### 6.38.1 Member Function Documentation

6.38.1.1 `override void RollingRoad.Infrastructure.DataAccess.Migrations.Initial.Down ( ) [inline]`

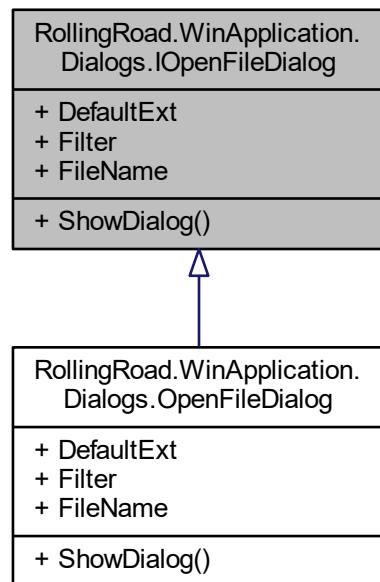
6.38.1.2 `override void RollingRoad.Infrastructure.DataAccess.Migrations.Initial.Up ( ) [inline]`

The documentation for this class was generated from the following files:

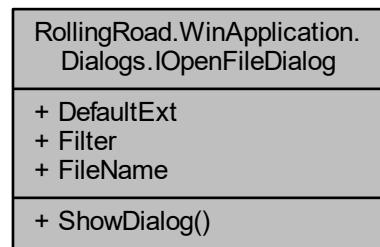
- [201604221231360\\_Initial.cs](#)
- [201604221231360\\_Initial.Designer.cs](#)

## 6.39 RollingRoad.WinApplication.Dialogs.IOpenFileDialog Interface Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.IOpenFileDialog:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.IOpenFileDialog:



### Public Member Functions

- bool [ShowDialog \(\)](#)

## Properties

- string [DefaultExt](#) [get, set]
- string [Filter](#) [get, set]
- string [FileName](#) [get]

### 6.39.1 Member Function Documentation

6.39.1.1 bool [RollingRoad.WinApplication.Dialogs.IOpenFileDialog.ShowDialog\(\)](#) ( )

Implemented in [RollingRoad.WinApplication.Dialogs.OpenFileDialog](#).

### 6.39.2 Property Documentation

6.39.2.1 string [RollingRoad.WinApplication.Dialogs.IOpenFileDialog.DefaultExt](#) [get], [set]

6.39.2.2 string [RollingRoad.WinApplication.Dialogs.IOpenFileDialog.FileName](#) [get]

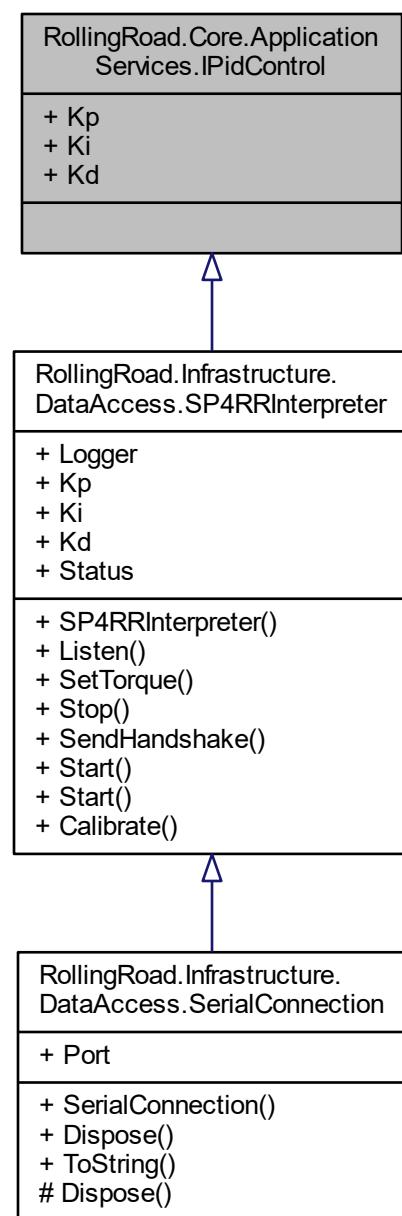
6.39.2.3 string [RollingRoad.WinApplication.Dialogs.IOpenFileDialog.Filter](#) [get], [set]

The documentation for this interface was generated from the following file:

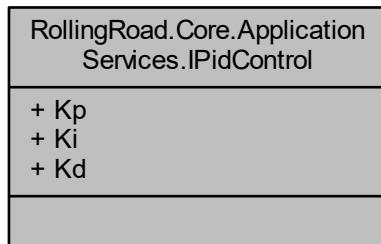
- [IOpenFileDialog.cs](#)

## 6.40 RollingRoad.Core.ApplicationServices.IPidControl Interface Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.IPidControl:



Collaboration diagram for RollingRoad.Core.ApplicationServices.IPidControl:



## Properties

- double **Kp** [get, set]
- double **Ki** [get, set]
- double **Kd** [get, set]

### 6.40.1 Property Documentation

6.40.1.1 double **RollingRoad.Core.ApplicationServices.IPidControl.Kd** [get], [set]

6.40.1.2 double **RollingRoad.Core.ApplicationServices.IPidControl.Ki** [get], [set]

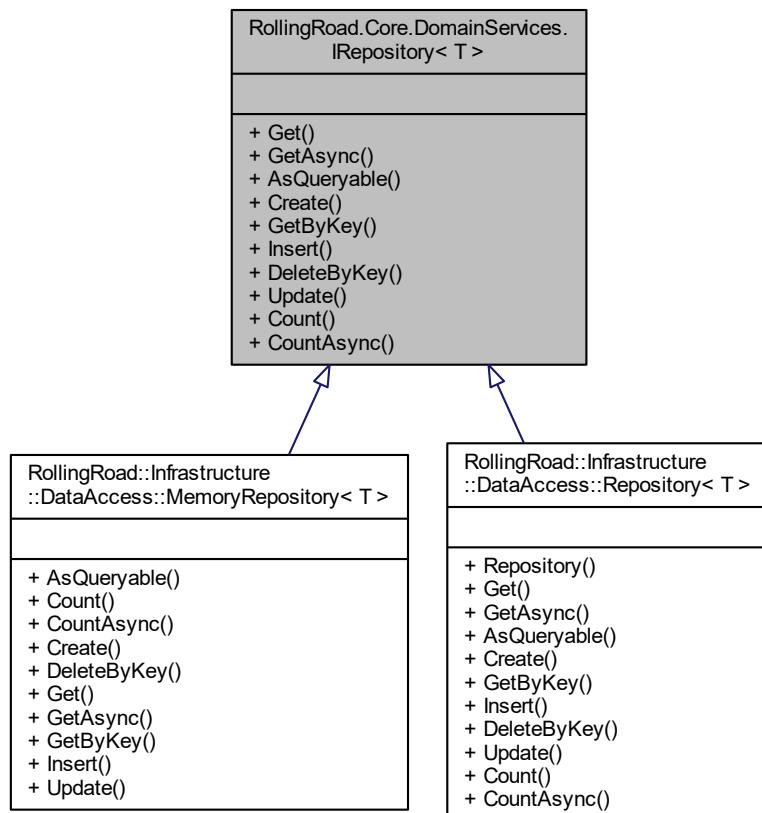
6.40.1.3 double **RollingRoad.Core.ApplicationServices.IPidControl.Kp** [get], [set]

The documentation for this interface was generated from the following file:

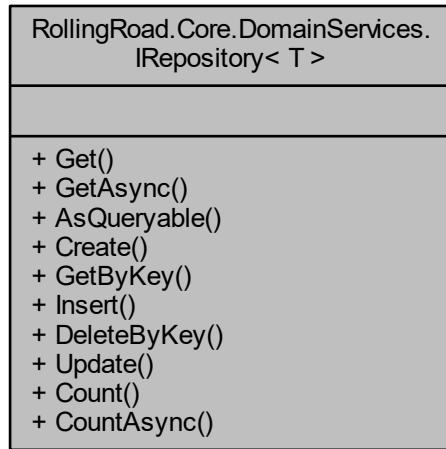
- [IPidControl.cs](#)

## 6.41 RollingRoad.Core.DomainServices.IRepository< T > Interface Template Reference

Inheritance diagram for RollingRoad.Core.DomainServices.IRepository< T >:



Collaboration diagram for RollingRoad.Core.DomainServices.IRepository< T >:



## Public Member Functions

- `IEnumerable< T > Get (Expression< Func< T, bool >> filter=null, Func< IQueryble< T >, IOrderedQueryble< T >> orderBy=null, string includeProperties="", int?page=null, int?pageSize=null)`
- `Task< IEnumerable< T > > GetAsync (Expression< Func< T, bool >> filter=null, Func< IQueryble< T >, IOrderedQueryble< T >> orderBy=null, string includeProperties="", int?page=null, int?pageSize=null)`
- `IQueryble< T > AsQueryable ()`
- `T Create ()`
- `T GetByKey (params object[] key)`
- `T Insert (T entity)`
- `void DeleteByKey (params object[] key)`
- `void Update (T entity)`
- `int Count (Expression< Func< T, bool >> filter=null)`
- `Task< int > CountAsync (Expression< Func< T, bool >> filter=null)`

### 6.41.1 Member Function Documentation

#### 6.41.1.1 IQueryble<T> RollingRoad.Core.DomainServices.IRepository< T >.AsQueryable ( )

Implemented in [RollingRoad.Infrastructure.DataAccess.Repository< T >](#), and [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#).

#### 6.41.1.2 int RollingRoad.Core.DomainServices.IRepository< T >.Count ( Expression< Func< T, bool >> filter = null )

Implemented in [RollingRoad.Infrastructure.DataAccess.Repository< T >](#), and [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#).

6.41.1.3 Task<int> **RollingRoad.Core.DomainServices.IRepository< T >.CountAsync** ( Expression< Func< T, bool >> filter = null )

Implemented in [RollingRoad.Infrastructure.DataAccess.Repository< T >](#), and [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#).

6.41.1.4 T **RollingRoad.Core.DomainServices.IRepository< T >.Create** ( )

Implemented in [RollingRoad.Infrastructure.DataAccess.Repository< T >](#), and [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#).

6.41.1.5 void **RollingRoad.Core.DomainServices.IRepository< T >.DeleteByKey** ( params object[] key )

Implemented in [RollingRoad.Infrastructure.DataAccess.Repository< T >](#), and [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#).

6.41.1.6 IEnumerable<T> **RollingRoad.Core.DomainServices.IRepository< T >.Get** ( Expression< Func< T, bool >> filter = null, Func< IQueryable< T >, IOrderedQueryable< T >> orderBy = null, string includeProperties = " ", int? page = null, int? pageSize = null )

Implemented in [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#), and [RollingRoad.Infrastructure.DataAccess.Repository< T >](#).

6.41.1.7 Task<IEnumerable<T>> **RollingRoad.Core.DomainServices.IRepository< T >.GetAsync** ( Expression< Func< T, bool >> filter = null, Func< IQueryable< T >, IOrderedQueryable< T >> orderBy = null, string includeProperties = " ", int? page = null, int? pageSize = null )

Implemented in [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#), and [RollingRoad.Infrastructure.DataAccess.Repository< T >](#).

6.41.1.8 T **RollingRoad.Core.DomainServices.IRepository< T >.GetByKey** ( params object[] key )

Implemented in [RollingRoad.Infrastructure.DataAccess.Repository< T >](#), and [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#).

6.41.1.9 T **RollingRoad.Core.DomainServices.IRepository< T >.Insert** ( T entity )

Implemented in [RollingRoad.Infrastructure.DataAccess.Repository< T >](#), and [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#).

6.41.1.10 void **RollingRoad.Core.DomainServices.IRepository< T >.Update** ( T entity )

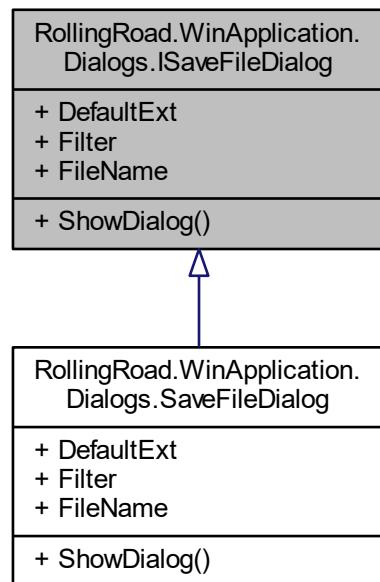
Implemented in [RollingRoad.Infrastructure.DataAccess.Repository< T >](#), and [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#).

The documentation for this interface was generated from the following file:

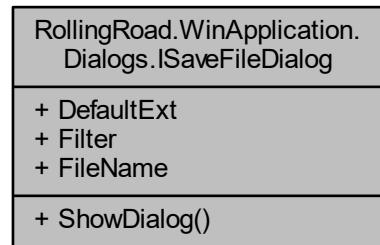
- [IRepository.cs](#)

## 6.42 RollingRoad.WinApplication.Dialogs.ISaveFileDialog Interface Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.ISaveFileDialog:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.ISaveFileDialog:



### Public Member Functions

- bool [ShowDialog \(\)](#)

## Properties

- string [DefaultExt](#) [get, set]
- string [Filter](#) [get, set]
- string [FileName](#) [get]

### 6.42.1 Member Function Documentation

6.42.1.1 bool [RollingRoad.WinApplication.Dialogs.ISaveFileDialog.ShowDialog\(\)](#)

Implemented in [RollingRoad.WinApplication.Dialogs.SaveFileDialog](#).

### 6.42.2 Property Documentation

6.42.2.1 string [RollingRoad.WinApplication.Dialogs.ISaveFileDialog.DefaultExt](#) [get], [set]

6.42.2.2 string [RollingRoad.WinApplication.Dialogs.ISaveFileDialog.FileName](#) [get]

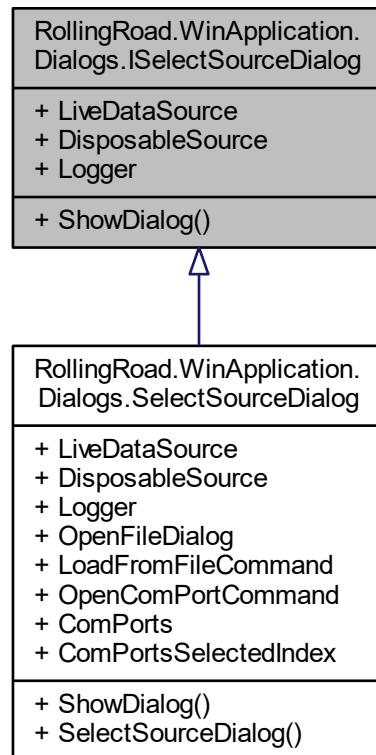
6.42.2.3 string [RollingRoad.WinApplication.Dialogs.ISaveFileDialog.Filter](#) [get], [set]

The documentation for this interface was generated from the following file:

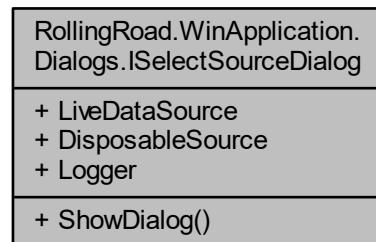
- [ISaveFileDialog.cs](#)

## 6.43 RollingRoad.WinApplication.Dialogs.ISelectSourceDialog Interface Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.ISelectSourceDialog:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.ISelectSourceDialog:



### Public Member Functions

- bool `ShowDialog ()`

## Properties

- [ILiveDataSource LiveDataSource](#) [get]
- [IDisposable DisposableSource](#) [get]
- [ILogger Logger](#) [get, set]

## Events

- [EventHandler<bool> OnClose](#)

### 6.43.1 Member Function Documentation

#### 6.43.1.1 bool RollingRoad.WinApplication.Dialogs.ISelectSourceDialog.ShowDialog ( )

Implemented in [RollingRoad.WinApplication.Dialogs.SelectSourceDialog](#).

### 6.43.2 Property Documentation

#### 6.43.2.1 IDisposable RollingRoad.WinApplication.Dialogs.ISelectSourceDialog.DisposableSource [get]

#### 6.43.2.2 IDataSource RollingRoad.WinApplication.Dialogs.ISelectSourceDialog.DataSource [get]

#### 6.43.2.3 ILogger RollingRoad.WinApplication.Dialogs.ISelectSourceDialog.Logger [get], [set]

### 6.43.3 Event Documentation

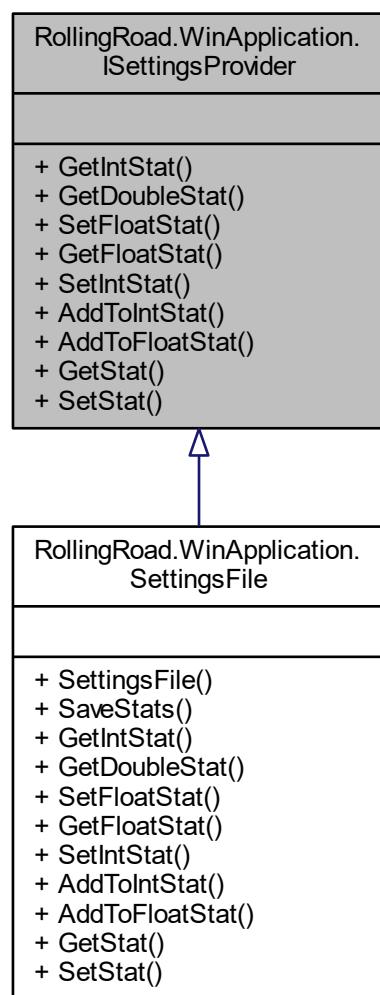
#### 6.43.3.1 EventHandler<bool> RollingRoad.WinApplication.Dialogs.ISelectSourceDialog.OnClose

The documentation for this interface was generated from the following file:

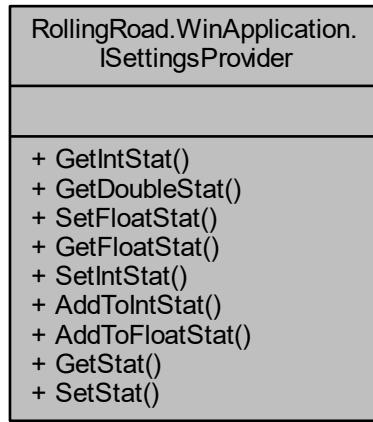
- [ISelectSourceDialog.cs](#)

## 6.44 RollingRoad.WinApplication.ISettingsProvider Interface Reference

Inheritance diagram for RollingRoad.WinApplication.ISettingsProvider:



Collaboration diagram for RollingRoad.WinApplication.ISettingsProvider:



## Public Member Functions

- int [GetIntStat](#) (string stat, int defaultValue=0)  
*Read int stats*
- double [GetDoubleStat](#) (string stat, double defaultValue=0)
- void [SetFloatStat](#) (string stat, float value)  
*Write float stat to file*
- float [GetFloatStat](#) (string stat)  
*Get float stat from file or cache*
- void [SetIntStat](#) (string stat, int value)  
*Set int stat*
- void [AddToIntStat](#) (string stat, int value)  
*Add to int stat*
- void [AddToFloatStat](#) (string stat, float value)  
*Add to float stat*
- string [GetStat](#) (string stat)  
*Get stat*
- void [SetStat](#) (string stat, string value)  
*Set stat, auto saves to file*

### 6.44.1 Member Function Documentation

#### 6.44.1.1 void RollingRoad.WinApplication.ISettingsProvider.AddToFloatStat ( string stat, float value )

Add to float stat

**Parameters**

<i>stat</i>	Stat key
<i>value</i>	How much to add to key

Implemented in [RollingRoad.WinApplication.SettingsFile](#).

**6.44.1.2 void RollingRoad.WinApplication.ISettingsProvider.AddToIntStat ( string stat, int value )**

Add to int stat

**Parameters**

<i>stat</i>	Stat key
<i>value</i>	How much to add to key

Implemented in [RollingRoad.WinApplication.SettingsFile](#).

**6.44.1.3 double RollingRoad.WinApplication.ISettingsProvider.GetDoubleStat ( string stat, double defaultValue = 0 )**

Implemented in [RollingRoad.WinApplication.SettingsFile](#).

**6.44.1.4 float RollingRoad.WinApplication.ISettingsProvider.GetFloatStat ( string stat )**

Get float stat from file or cache

**Parameters**

<i>stat</i>	The stat to retrieve
-------------	----------------------

**Returns**

Value of the stat, if unable to load or parse 0 will be returned

Implemented in [RollingRoad.WinApplication.SettingsFile](#).

**6.44.1.5 int RollingRoad.WinApplication.ISettingsProvider.GetIntStat ( string stat, int defaultValue = 0 )**

Read int stats

**Parameters**

<i>stat</i>	The stat to retrieve
<i>defaultValue</i>	Default value, used if no settings could be found

**Returns**

Value of the stat, if unable to load or parse 0 will be returned

Implemented in [RollingRoad.WinApplication.SettingsFile](#).

**6.44.1.6 string RollingRoad.WinApplication.ISettingsProvider.GetStat ( string stat )**

Get stat

**Parameters**

<i>stat</i>	Stat key
-------------	----------

**Returns**

Returns empty string if not found, else it return the string value of the key

Implemented in [RollingRoad.WinApplication.SettingsFile](#).

**6.44.1.7 void RollingRoad.WinApplication.ISettingsProvider.SetFloatStat ( string stat, float value )**

Write float stat to file

**Parameters**

<i>stat</i>	Stat key
<i>value</i>	Value to write

Implemented in [RollingRoad.WinApplication.SettingsFile](#).

**6.44.1.8 void RollingRoad.WinApplication.ISettingsProvider.SetIntStat ( string stat, int value )**

Set int stat

**Parameters**

<i>stat</i>	Stat key
<i>value</i>	Stat value

Implemented in [RollingRoad.WinApplication.SettingsFile](#).

**6.44.1.9 void RollingRoad.WinApplication.ISettingsProvider.SetStat ( string stat, string value )**

Set stat, auto saves to file

**Parameters**

<i>stat</i>	Stat key
<i>value</i>	Stat value

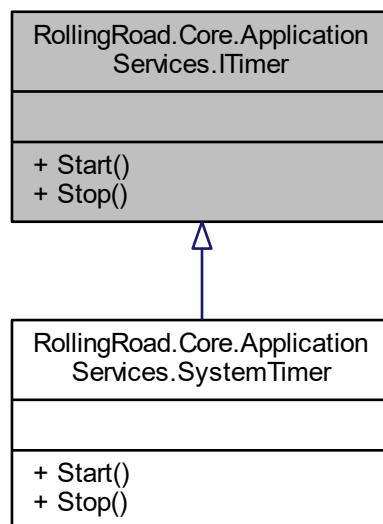
Implemented in [RollingRoad.WinApplication.SettingsFile](#).

The documentation for this interface was generated from the following file:

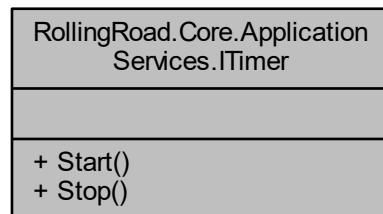
- [ISettingsProvider.cs](#)

## 6.45 RollingRoad.Core.ApplicationServices.ITimer Interface Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.ITimer:



Collaboration diagram for RollingRoad.Core.ApplicationServices.ITimer:



## Public Member Functions

- void [Start](#) (int ms)  
*Initiate timer to make a call to Elapsed*
- void [Stop](#) ()  
*Stop the timer if currently running*

## Events

- Action [Elapsed](#)  
*Event called when the timer is done*

### 6.45.1 Member Function Documentation

#### 6.45.1.1 void RollingRoad.Core.ApplicationServices.ITimer.Start ( int ms )

Initiate timer to make a call to [Elapsed](#)

##### Parameters

<code>ms</code>	Time to delay in milliseconds
-----------------	-------------------------------

Implemented in [RollingRoad.Core.ApplicationServices.SystemTimer](#).

#### 6.45.1.2 void RollingRoad.Core.ApplicationServices.ITimer.Stop ( )

Stop the timer if currently running

Implemented in [RollingRoad.Core.ApplicationServices.SystemTimer](#).

### 6.45.2 Event Documentation

#### 6.45.2.1 Action RollingRoad.Core.ApplicationServices.ITimer.Elapsed

Event called when the timer is done

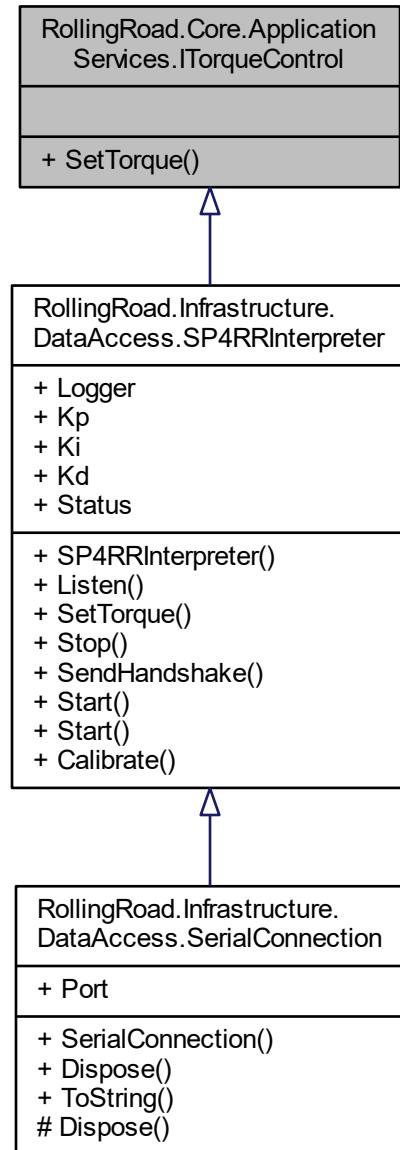
The documentation for this interface was generated from the following file:

- [ITimer.cs](#)

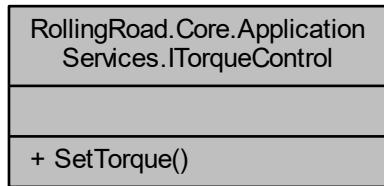
## 6.46 RollingRoad.Core.ApplicationServices.ITorqueControl Interface Reference

Allows the control of Rolling Road

Inheritance diagram for RollingRoad.Core.ApplicationServices.ITorqueControl:



Collaboration diagram for RollingRoad.Core.ApplicationServices.ITorqueControl:



## Public Member Functions

- void [SetTorque](#) (double torque)

*Sets the torque*

### 6.46.1 Detailed Description

Allows the control of Rolling Road

### 6.46.2 Member Function Documentation

#### 6.46.2.1 void RollingRoad.Core.ApplicationServices.ITorqueControl.SetTorque ( double *torque* )

Sets the torque

##### Parameters

<i>torque</i>	Must be higher than zero
---------------	--------------------------

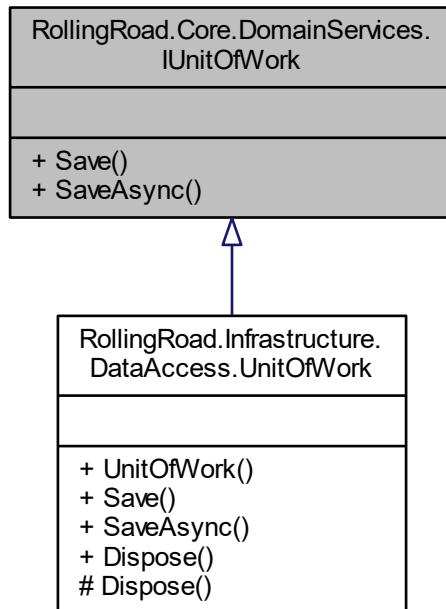
Implemented in [RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter](#).

The documentation for this interface was generated from the following file:

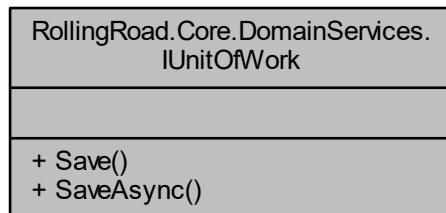
- [ITorqueControl.cs](#)

## 6.47 RollingRoad.Core.DomainServices.IUnitOfWork Interface Reference

Inheritance diagram for RollingRoad.Core.DomainServices.IUnitOfWork:



Collaboration diagram for RollingRoad.Core.DomainServices.IUnitOfWork:



### Public Member Functions

- int [Save \(\)](#)
- Task< int > [SaveAsync \(\)](#)

### 6.47.1 Member Function Documentation

6.47.1.1 `int RollingRoad.Core.DomainServices.IUnitOfWork.Save( )`

Implemented in [RollingRoad.Infrastructure.DataAccess.UnitOfWork](#).

6.47.1.2 `Task<int> RollingRoad.Core.DomainServices.IUnitOfWork.SaveAsync( )`

Implemented in [RollingRoad.Infrastructure.DataAccess.UnitOfWork](#).

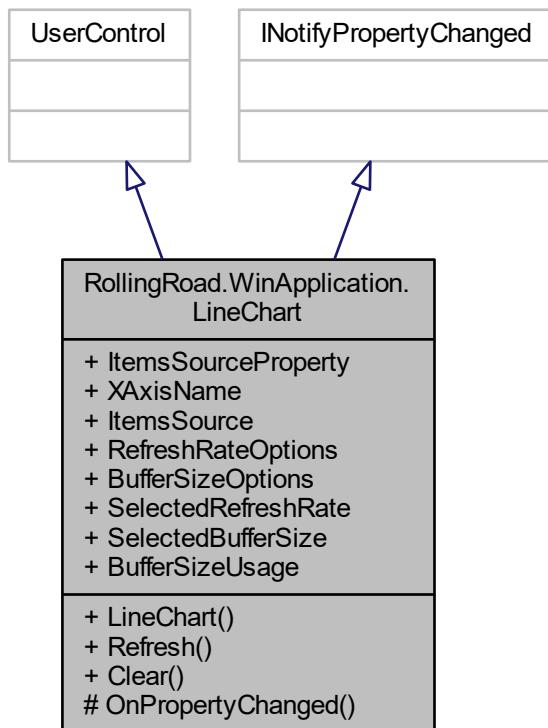
The documentation for this interface was generated from the following file:

- [IUnitOfWork.cs](#)

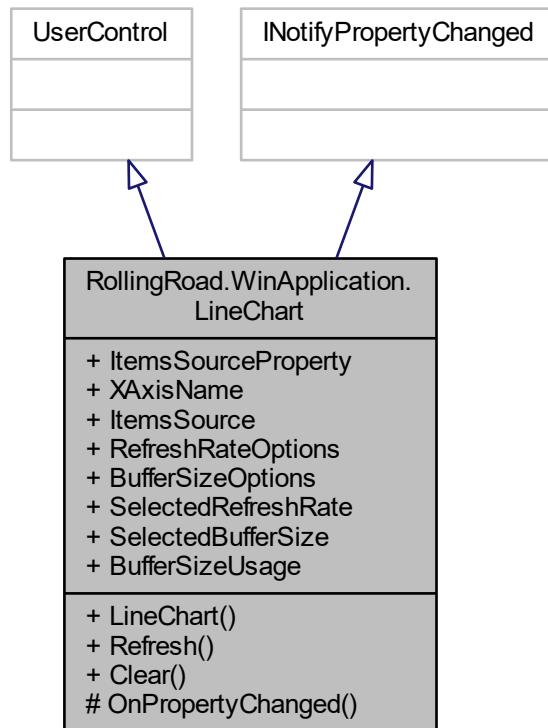
## 6.48 RollingRoad.WinApplication.LineChart Class Reference

Interaction logic for LineChart.xaml

Inheritance diagram for RollingRoad.WinApplication.LineChart:



Collaboration diagram for RollingRoad.WinApplication.LineChart:



## Public Member Functions

- `LineChart ()`
- `void Refresh ()`
- `void Clear ()`

## Static Public Attributes

- static readonly DependencyProperty `ItemsSourceProperty`

## Protected Member Functions

- virtual void `OnPropertyChanged ([CallerMemberName] string propertyName=null)`

## Properties

- string `XAxisName` [get]
- ICollection< `DataManager` > `ItemsSource` = "Time" [get, set]
- ICollection< string > `RefreshRateOptions` [get]
- ICollection< int > `BufferSizeOptions` = new List<string>() {"Off", "500 ms", "1000 ms", "5000 ms", "10000 ms"} [get]
- int `SelectedRefreshRate` = new List<int>() {100, 250, 500, 750, 1000, 10000} [get, set]
- int `SelectedBufferSize` [get, set]
- string `BufferSizeUsage` [get]

## Events

- PropertyChangedEventHandler [PropertyChanged](#)

### 6.48.1 Detailed Description

Interaction logic for LineChart.xaml

### 6.48.2 Constructor & Destructor Documentation

#### 6.48.2.1 RollingRoad.WinApplication.LineChart.LineChart( ) [inline]

### 6.48.3 Member Function Documentation

#### 6.48.3.1 void RollingRoad.WinApplication.LineChart.Clear( ) [inline]

#### 6.48.3.2 virtual void RollingRoad.WinApplication.LineChart.OnPropertyChanged( [CallerMemberName] string propertyName = null ) [inline], [protected], [virtual]

#### 6.48.3.3 void RollingRoad.WinApplication.LineChart.Refresh( ) [inline]

### 6.48.4 Member Data Documentation

#### 6.48.4.1 readonly DependencyProperty RollingRoad.WinApplication.LineChart.ItemsSourceProperty [static]

##### Initial value:

```
= DependencyProperty.Register(
    "ItemsSource",
    typeof(
        LineChart),
    new FrameworkPropertyMetadata(
        ItemsSourceChange, null))
```

### 6.48.5 Property Documentation

#### 6.48.5.1 ICollection<int> RollingRoad.WinApplication.LineChart.BufferSizeOptions = new List<string>() {"Off", "500 ms", "1000 ms", "5000 ms", "10000 ms"} [get]

#### 6.48.5.2 string RollingRoad.WinApplication.LineChart.BufferSizeUsage [get]

#### 6.48.5.3 ICollection<DataListViewModel> RollingRoad.WinApplication.LineChart.ItemsSource = "Time" [get], [set]

#### 6.48.5.4 ICollection<string> RollingRoad.WinApplication.LineChart.RefreshRateOptions [get]

6.48.5.5 `int RollingRoad.WinApplication.LineChart.SelectedBufferSize [get], [set]`

6.48.5.6 `int RollingRoad.WinApplication.LineChart.SelectedRefreshRate = new List<int>() {100, 250, 500, 750, 1000, 10000} [get], [set]`

6.48.5.7 `string RollingRoad.WinApplication.LineChart.XAxisName [get]`

## 6.48.6 Event Documentation

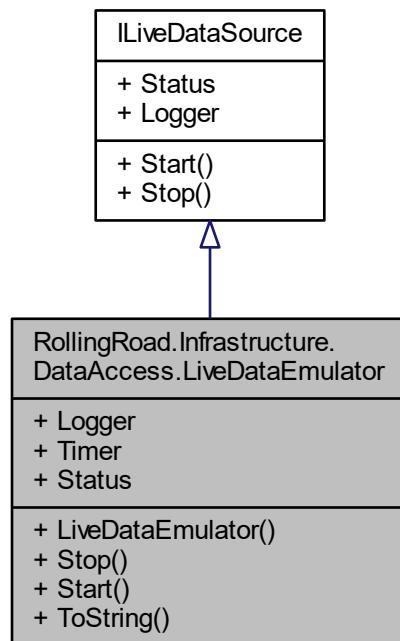
6.48.6.1 `PropertyChangedEventHandler RollingRoad.WinApplication.LineChart.PropertyChanged`

The documentation for this class was generated from the following file:

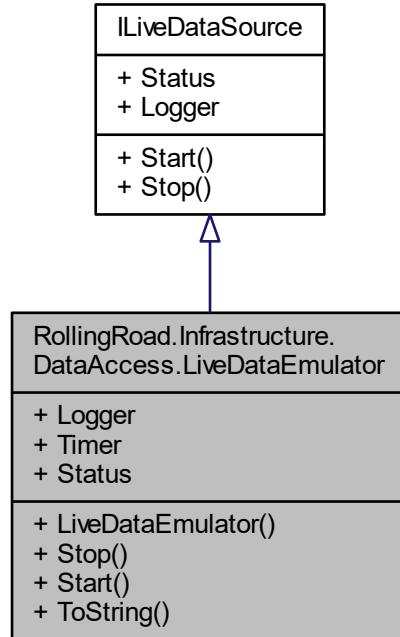
- [LineChart.xaml.cs](#)

## 6.49 RollingRoad.Infrastructure.DataAccess.LiveDataEmulator Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.LiveDataEmulator:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.LiveDataEmulator:



## Public Member Functions

- `LiveDataEmulator (DataSet source)`  
*Ctor, before the timer starts sending values, start must be called*
- `void Stop ()`  
*Stops the transmission/recieving of data*
- `void Start ()`  
*Start the timer*
- `override string ToString ()`

## Properties

- `ILogger Logger [get, set]`  
*Logger used for debug messages*
- `ITimer Timer [set]`  
*Timer used for timing when to send new values*
- `LiveDataSourceStatus Status [get]`

## Events

- `EventHandler< LiveDataPointsEventArgs > OnNextReadValue`  
*Event when at new value is sent*
- `OnStatusUpdate OnStatusChange`

## 6.49.1 Constructor & Destructor Documentation

6.49.1.1 `RollingRoad.Infrastructure.DataAccess.LiveDataEmulator.LiveDataEmulator ( DataSet source ) [inline]`

Ctor, before the timer starts sending values, start must be called

Parameters

<code>source</code>	Source to emulate
---------------------	-------------------

## 6.49.2 Member Function Documentation

6.49.2.1 `void RollingRoad.Infrastructure.DataAccess.LiveDataEmulator.Start ( ) [inline]`

Start the timer

Implements [RollingRoad.Core.ApplicationServices.ILiveDataSource](#).

6.49.2.2 `void RollingRoad.Infrastructure.DataAccess.LiveDataEmulator.Stop ( ) [inline]`

Stops the transmission/recieving of data

Implements [RollingRoad.Core.ApplicationServices.ILiveDataSource](#).

6.49.2.3 `override string RollingRoad.Infrastructure.DataAccess.LiveDataEmulator.ToString ( ) [inline]`

## 6.49.3 Property Documentation

6.49.3.1 `ILogger RollingRoad.Infrastructure.DataAccess.LiveDataEmulator.Logger [get], [set]`

Logger used for debug messages

6.49.3.2 `LiveDataSourceStatus RollingRoad.Infrastructure.DataAccess.LiveDataEmulator.Status [get]`

6.49.3.3 `ITimer RollingRoad.Infrastructure.DataAccess.LiveDataEmulator.Timer [set]`

Timer used for timing when to send new values

## 6.49.4 Event Documentation

6.49.4.1 `EventHandler<LiveDataPointsEventArgs> RollingRoad.Infrastructure.DataAccess.LiveDataEmulator.OnNext<ReadValue>`

Event when at new value is sent

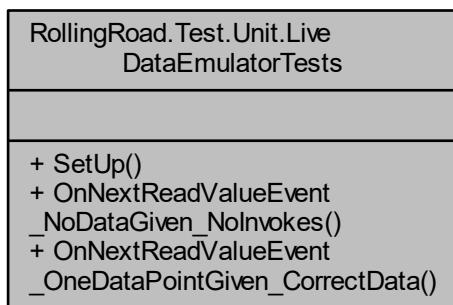
#### 6.49.4.2 OnStatusUpdate RollingRoad.Infrastructure.DataAccess.LiveDataEmulator.OnStatusChange

The documentation for this class was generated from the following file:

- [LiveDataEmulator.cs](#)

## 6.50 RollingRoad.Test.Unit.LiveDataEmulatorTests Class Reference

Collaboration diagram for RollingRoad.Test.Unit.LiveDataEmulatorTests:



### Public Member Functions

- void [SetUp \(\)](#)
- void [OnNextReadValueEvent\\_NoDataGiven\\_NoInvokes \(\)](#)
- void [OnNextReadValueEvent\\_OneDataPointGiven\\_CorrectData \(double value\)](#)

#### 6.50.1 Member Function Documentation

6.50.1.1 void RollingRoad.Test.Unit.LiveDataEmulatorTests.OnNextReadValueEvent\_NoDataGiven\_NoInvokes ( )  
[inline]

6.50.1.2 void RollingRoad.Test.Unit.LiveDataEmulatorTests.OnNextReadValueEvent\_OneDataPointGiven\_CorrectData ( double  
value ) [inline]

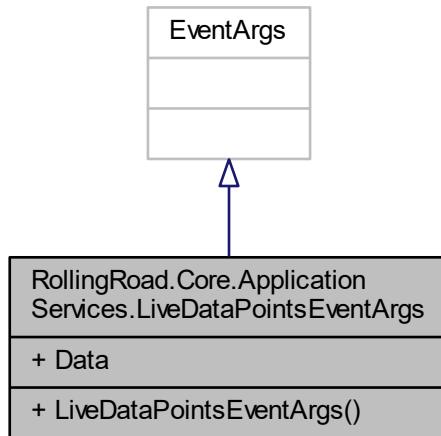
6.50.1.3 void RollingRoad.Test.Unit.LiveDataEmulatorTests.SetUp ( ) [inline]

The documentation for this class was generated from the following file:

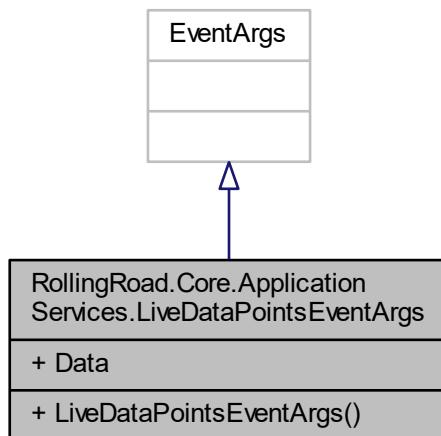
- [LiveDataEmulatorTests.cs](#)

## 6.51 RollingRoad.Core.ApplicationServices.LiveDataPointsEventArgs Class Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.LiveDataPointsEventArgs:



Collaboration diagram for RollingRoad.Core.ApplicationServices.LiveDataPointsEventArgs:



### Public Member Functions

- `LiveDataPointsEventArgs (ICollection< Tuple< DataPoint, DataType >> data)`

## Properties

- `ICollection< Tuple< DataPoint, DataType > > Data` [get]

### 6.51.1 Constructor & Destructor Documentation

6.51.1.1 `RollingRoad.Core.ApplicationServices.LiveDataPointsEventArgs.LiveDataPointsEventArgs ( ICollection< Tuple< DataPoint, DataType > >> data )` [inline]

### 6.51.2 Property Documentation

6.51.2.1 `ICollection< Tuple< DataPoint, DataType > > RollingRoad.Core.ApplicationServices.LiveDataPointsEventArgs.Data` [get]

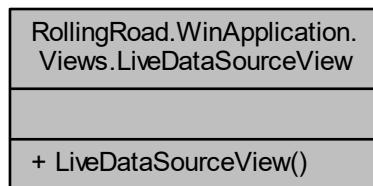
The documentation for this class was generated from the following file:

- [ILiveDataSource.cs](#)

## 6.52 RollingRoad.WinApplication.Views.LiveDataSourceView Class Reference

Interaction logic for `LiveDataDataSourceView.xaml`

Collaboration diagram for `RollingRoad.WinApplication.Views.LiveDataSourceView`:



### Public Member Functions

- [LiveDataDataSourceView \(\)](#)

### 6.52.1 Detailed Description

Interaction logic for `LiveDataDataSourceView.xaml`

## 6.52.2 Constructor & Destructor Documentation

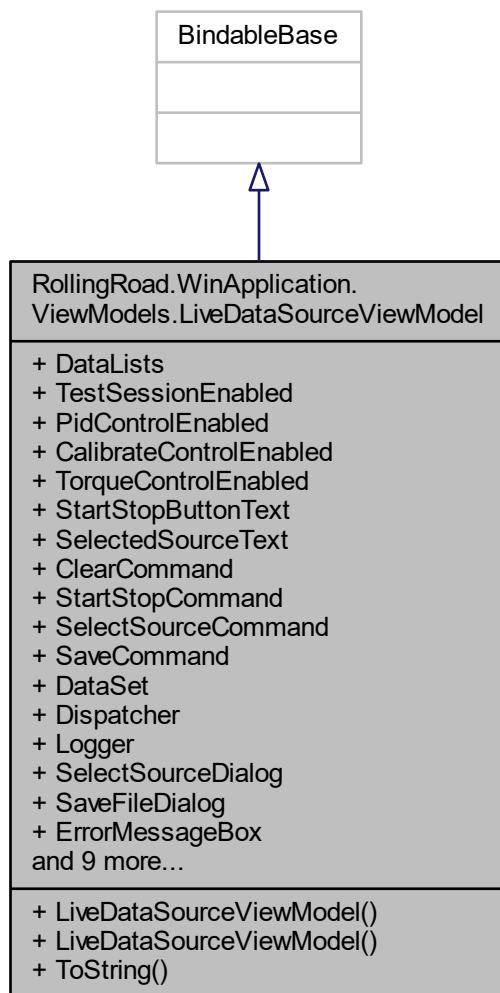
### 6.52.2.1 RollingRoad.WinApplication.Views.LiveDataSourceView.LiveDataSourceView( ) [inline]

The documentation for this class was generated from the following file:

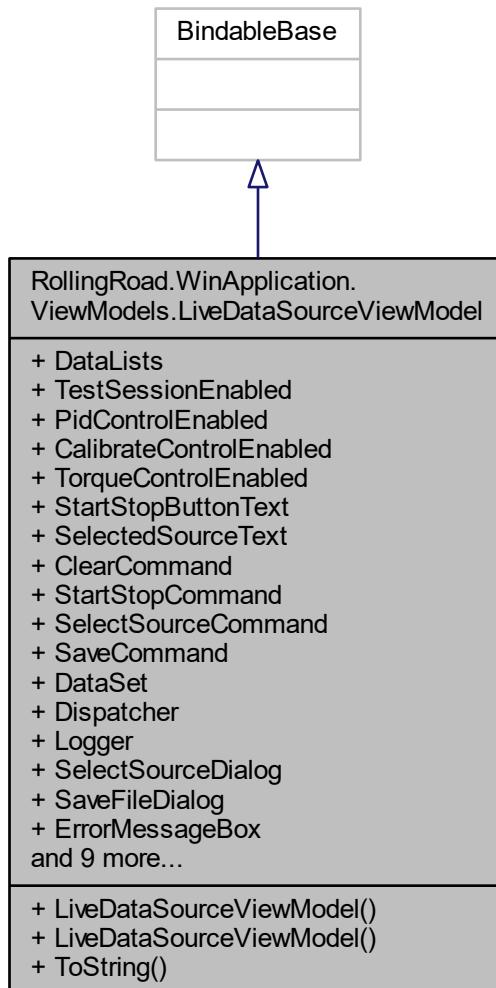
- [LiveDataSourceView.xaml.cs](#)

## 6.53 RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel:



## Public Member Functions

- `LiveDataSourceViewModel ()`
- `LiveDataSourceViewModel (ILiveDataSource initialSource)`
- override string `ToString ()`

## Public Attributes

- `ICollection< DataListViewModel > DataLists => DataSet.Collection`
- `bool TestSessionEnabled => TestSession != null`
- `bool PidControlEnabled => PidControl != null`
- `bool CalibrateControlEnabled => CalibrateControl != null`
- `bool TorqueControlEnabled => TorqueControl != null`
- `string StartStopButtonText => IsStarted ? "Stop" : "Start"`
- `string SelectedSourceText => "Source: " + Source`

## Properties

- DelegateCommand `ClearCommand` [get]
- DelegateCommand `StartStopCommand` [get]
- DelegateCommand `SelectSourceCommand` [get]
- DelegateCommand `SaveCommand` [get]
- `DataSetViewModel DataSet` [get]
- `IDispatcher Dispatcher` [get, set]
- `ILogger Logger` [get, set]
- `ISelectSourceDialog SelectSourceDialog` [get, set]
- `ISaveFileDialog SaveFileDialog = new SelectSourceDialog()` [get, set]
- `IErrorMessageBox ErrorMessageBox` [get, set]
- `IMessageBox AskAboutChangesMessageBox = new ErrorMessageBox()` [get, set]
- `IDataSetDataFile DataFileSaver = new Dialogs.MessageBox()` [get, set]
- `TestSessionViewModel TestSession = new CsvDataFile()` [get]
- `PidControlViewModel PidControl` [get]
- `CalibrateControlViewModel CalibrateControl` [get]
- `TorqueControlViewModel TorqueControl` [get]
- `bool HasBeenSaved` [get]
- `bool IsStarted` [get]
- `ILiveDataSource Source` [get]

### 6.53.1 Constructor & Destructor Documentation

6.53.1.1 `RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.LiveDataSourceViewModel( )` [inline]

6.53.1.2 `RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.LiveDataSourceViewModel( ILiveDataSource initialSource )` [inline]

### 6.53.2 Member Function Documentation

6.53.2.1 `override string RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.ToString( )` [inline]

### 6.53.3 Member Data Documentation

6.53.3.1 `bool RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.CalibrateControlEnabled => CalibrateControl != null`

6.53.3.2 `ICollection<DataListModel> RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.DataLists => DataSet.Collection`

6.53.3.3 `bool RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.PidControlEnabled => PidControl != null`

6.53.3.4 `string RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.SelectedSourceText => "Source: " + Source`

6.53.3.5 `string RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.StartStopButtonText => IsStarted ? "Stop" : "Start"`

6.53.3.6 bool RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.TestSessionEnabled => TestSession != null

6.53.3.7 bool RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.TorqueControlEnabled => TorqueControl != null

#### 6.53.4 Property Documentation

6.53.4.1 IMessagesBox RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.AskAboutChangesMessageBox = new ErrorMessageBox() [get], [set]

6.53.4.2 CalibrateControlViewModel RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.CalibrateControl [get]

6.53.4.3 DelegateCommand RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.ClearCommand [get]

6.53.4.4 IDataSetDataFile RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.DataFileSaver = new Dialogs.MessageBox() [get], [set]

6.53.4.5 DataSetViewModel RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.DataSet [get]

6.53.4.6 Dispatcher RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.Dispatcher [get], [set]

6.53.4.7 IErrorMessageBox RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.ErrorMessageBox [get], [set]

#### Initial value:

```
= new SaveFileDialog()
{
    DefaultExt = ".csv",
    Filter = "CSV Files (*.csv) | *.csv"
}
```

6.53.4.8 bool RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.HasBeenSaved [get]

6.53.4.9 bool RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.IsStarted [get]

6.53.4.10 ILogger RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.Logger [get], [set]

6.53.4.11 PidControlViewModel RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.PidControl [get]

6.53.4.12 DelegateCommand RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.SaveCommand [get]

6.53.4.13 ISaveFileDialog RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.SaveFileDialog = new SelectSourceDialog() [get], [set]

6.53.4.14 **DelegateCommand** RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.SelectSourceCommand  
[get]

6.53.4.15 **ISelectSourceDialog** RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.SelectSourceDialog  
[get], [set]

6.53.4.16 **ILiveDataSource** RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.Source [get]

6.53.4.17 **DelegateCommand** RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.StartStopCommand  
[get]

6.53.4.18 **TestSessionViewModel** RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.TestSession = new  
CsvDataFile() [get]

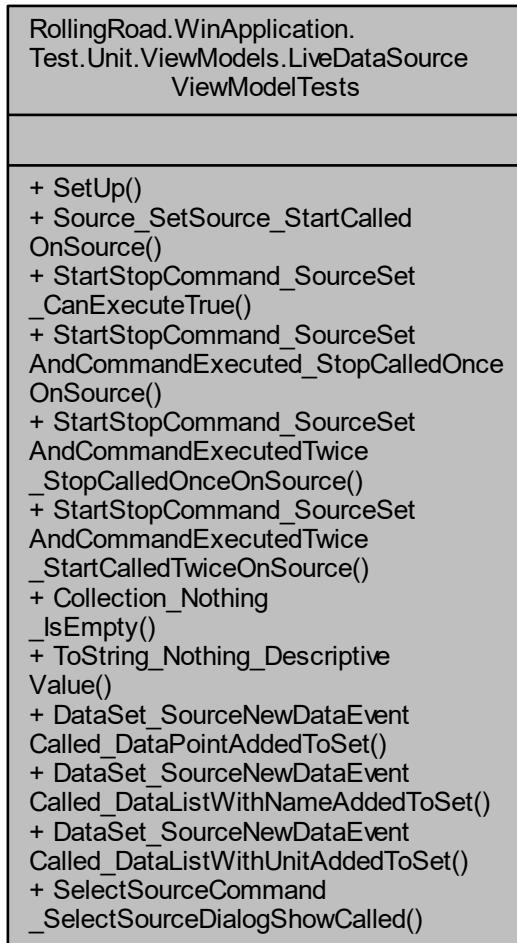
6.53.4.19 **TorqueControlViewModel** RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel.TorqueControl  
[get]

The documentation for this class was generated from the following file:

- [LiveDataSourceViewModel.cs](#)

## 6.54 RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests Class Reference

Collaboration diagram for RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests:



### Public Member Functions

- void [SetUp \(\)](#)
- void [Source\\_SetSource\\_StartCalledOnSource \(\)](#)
- void [StartStopCommand\\_SourceSet\\_CanExecuteTrue \(\)](#)
- async Task [StartStopCommand\\_SourceSetAndCommandExecuted\\_StopCalledOnceOnSource \(\)](#)
- async Task [StartStopCommand\\_SourceSetAndCommandExecutedTwice\\_StopCalledOnceOnSource \(\)](#)
- async Task [StartStopCommand\\_SourceSetAndCommandExecutedTwice\\_StartCalledTwiceOnSource \(\)](#)
- void [Collection\\_Nothing\\_IsEmpty \(\)](#)
- void [ToString\\_Nothing\\_DescriptiveValue \(\)](#)
- void [DataSet\\_SourceNewDataEventCalled\\_DataPointAddedToSet \(\)](#)
- void [DataSet\\_SourceNewDataEventCalled\\_DataListWithSimpleNameAddedToSet \(\)](#)
- void [DataSet\\_SourceNewDataEventCalled\\_DataListWithUnitAddedToSet \(\)](#)
- void [SelectSourceCommand\\_SelectSourceDialogShowCalled \(\)](#)

### 6.54.1 Member Function Documentation

6.54.1.1 void RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.Collection\_Nothing\_IsEmpty ( ) [inline]

6.54.1.2 void RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.DataSet\_SourceNewData← EventCalled\_DataListWithUnitAddedToSet ( ) [inline]

6.54.1.3 void RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.DataSet\_SourceNewData← EventCalled\_DataListWithUnitAddedToSet ( ) [inline]

6.54.1.4 void RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.DataSet\_SourceNewData← EventCalled\_DataPointAddedToSet ( ) [inline]

6.54.1.5 void RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.SelectSourceCommand\_← SelectSourceDialogShowCalled ( ) [inline]

6.54.1.6 void RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.SetUp ( ) [inline]

6.54.1.7 void RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.Source\_SetSource\_Start← CalledOnSource ( ) [inline]

6.54.1.8 void RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.StartStopCommand\_Source← Set\_CanExecuteTrue ( ) [inline]

6.54.1.9 async Task RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModel← Tests.StartStopCommand\_SourceSetAndCommandExecuted\_StopCalledOnceOnSource ( ) [inline]

6.54.1.10 async Task RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.← StartStopCommand\_SourceSetAndCommandExecutedTwice\_StartCalledTwiceOnSource ( ) [inline]

6.54.1.11 async Task RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.← StartStopCommand\_SourceSetAndCommandExecutedTwice\_StopCalledOnceOnSource ( ) [inline]

6.54.1.12 void RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests.ToString\_Nothing← DescriptiveValue ( ) [inline]

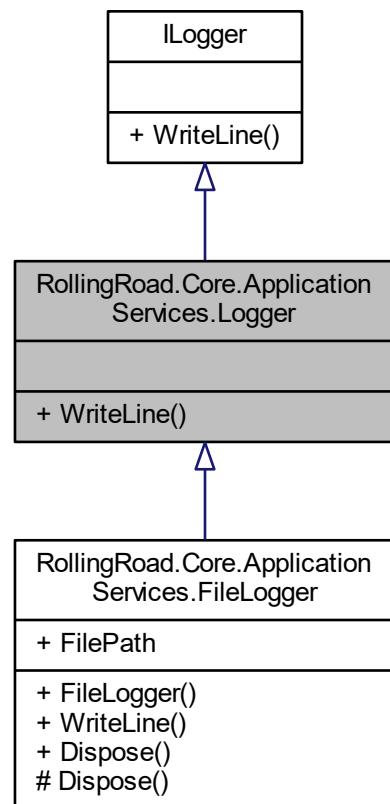
The documentation for this class was generated from the following file:

- [LiveDataSourceViewModelTests.cs](#)

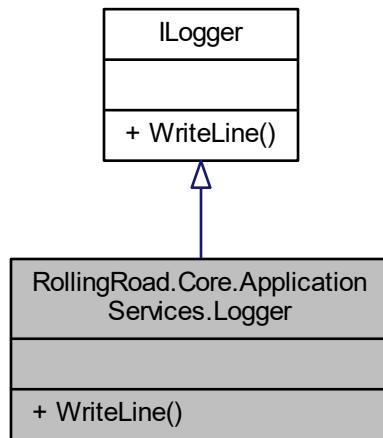
## 6.55 RollingRoad.Core.ApplicationServices.Logger Class Reference

Invokes OnLog every time there's a log message, does not store log.

Inheritance diagram for RollingRoad.Core.ApplicationServices.Logger:



Collaboration diagram for RollingRoad.Core.ApplicationServices.Logger:



## Public Member Functions

- virtual void [WriteLine](#) (string line)  
*Write to log*

## Events

- EventHandler< string > [OnLog](#)  
*Called when there's a new line written, without a newline at the end*

### 6.55.1 Detailed Description

Invokes OnLog every time there's a log message, does not store log.

### 6.55.2 Member Function Documentation

#### 6.55.2.1 virtual void RollingRoad.Core.ApplicationServices.Logger.WriteLine ( string line ) [inline], [virtual]

Write to log

##### Parameters

<i>line</i>	Line to write
-------------	---------------

Implements [RollingRoad.Core.ApplicationServices.ILogger](#).

Reimplemented in [RollingRoad.Core.ApplicationServices.FileLogger](#).

### 6.55.3 Event Documentation

#### 6.55.3.1 EventHandler<string> RollingRoad.Core.ApplicationServices.Logger.OnLog

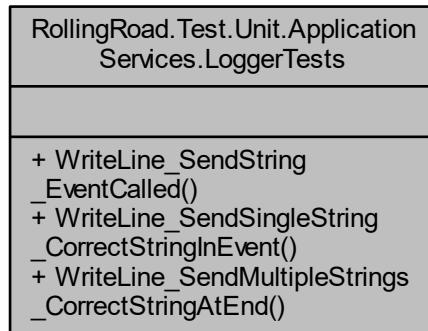
Called when there's a new line written, without a newline at the end

The documentation for this class was generated from the following file:

- [Logger.cs](#)

## 6.56 RollingRoad.Test.Unit.ApplicationServices.LoggerTests Class Reference

Collaboration diagram for RollingRoad.Test.Unit.ApplicationServices.LoggerTests:



### Public Member Functions

- void [WriteLine\\_SendString\\_EventCalled \(\)](#)
- void [WriteLine\\_SendSingleString\\_CorrectStringInEvent \(string str\)](#)
- void [WriteLine\\_SendMultipleStrings\\_CorrectStringAtEnd \(string prefix, int number\)](#)

### 6.56.1 Member Function Documentation

6.56.1.1 void RollingRoad.Test.Unit.ApplicationServices.LoggerTests.WriteLine\_SendMultipleStrings\_CorrectStringAtEnd ( string *prefix*, int *number* ) [inline]

6.56.1.2 void RollingRoad.Test.Unit.ApplicationServices.LoggerTests.WriteLine\_SendSingleString\_CorrectStringInEvent ( string *str* ) [inline]

6.56.1.3 void RollingRoad.Test.Unit.ApplicationServices.LoggerTests.WriteLine\_SendString\_EventCalled ( ) [inline]

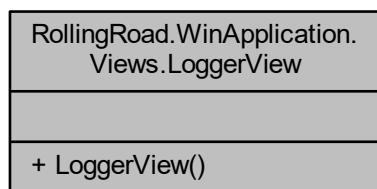
The documentation for this class was generated from the following file:

- [LoggerTests.cs](#)

## 6.57 RollingRoad.WinApplication.Views.LoggerView Class Reference

Interaction logic for LoggerView.xaml

Collaboration diagram for RollingRoad.WinApplication.Views.LoggerView:



### Public Member Functions

- [LoggerView \(\)](#)

#### 6.57.1 Detailed Description

Interaction logic for LoggerView.xaml

#### 6.57.2 Constructor & Destructor Documentation

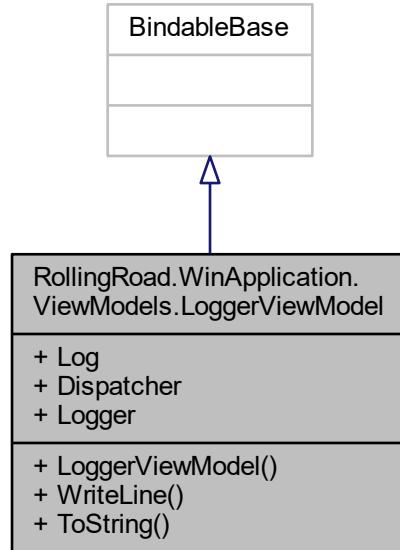
##### 6.57.2.1 RollingRoad.WinApplication.Views.LoggerView.LoggerView ( ) [inline]

The documentation for this class was generated from the following file:

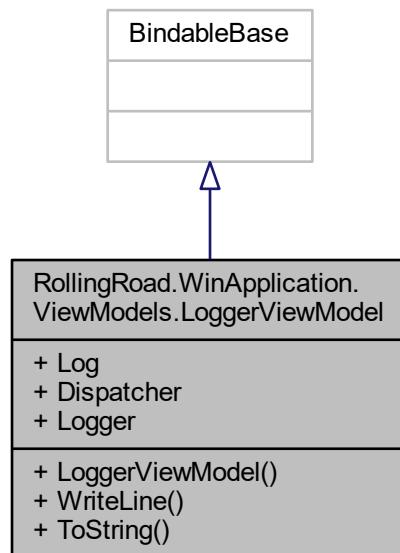
- [LoggerView.xaml.cs](#)

## 6.58 RollingRoad.WinApplication.ViewModels.LoggerViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.LoggerViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.LoggerViewModel:



## Public Member Functions

- [LoggerViewModel \(IDispatcher dispatcher=null, ILogger logger=null\)](#)
- void [WriteLine \(string line\)](#)
- override string [ToString \(\)](#)

## Properties

- ObservableCollection< Tuple< string, string > > [Log \[get\]](#)
- [IDispatcher Dispatcher = new ObservableCollection< Tuple< string, string > > \(\) \[get, set\]](#)
- [ILogger Logger \[get\]](#)

### 6.58.1 Constructor & Destructor Documentation

6.58.1.1 [RollingRoad.WinApplication.ViewModels.LoggerViewModel.LoggerViewModel \( IDispatcher dispatcher = null, ILogger logger = null \) \[inline\]](#)

### 6.58.2 Member Function Documentation

6.58.2.1 [override string RollingRoad.WinApplication.ViewModels.LoggerViewModel.ToString \( \) \[inline\]](#)

6.58.2.2 [void RollingRoad.WinApplication.ViewModels.LoggerViewModel.WriteLine \( string line \) \[inline\]](#)

### 6.58.3 Property Documentation

6.58.3.1 [IDispatcher RollingRoad.WinApplication.ViewModels.LoggerViewModel.Dispatcher = new ObservableCollection< Tuple< string, string > > \(\) \[get\], \[set\]](#)

6.58.3.2 [ObservableCollection< Tuple< string, string > > RollingRoad.WinApplication.ViewModels.LoggerViewModel.Log \[get\]](#)

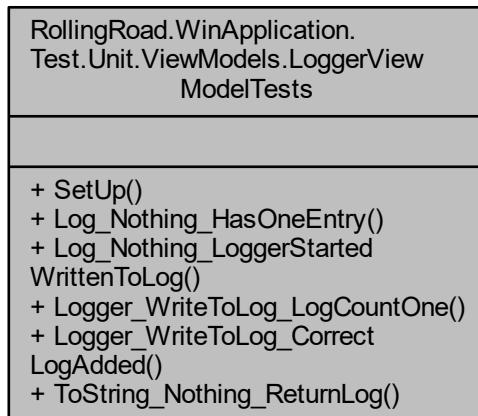
6.58.3.3 [ILogger RollingRoad.WinApplication.ViewModels.LoggerViewModel.Logger \[get\]](#)

The documentation for this class was generated from the following file:

- [LoggerViewModel.cs](#)

## 6.59 RollingRoad.WinApplication.Test.Unit.ViewModels.LoggerViewModelTests Class Reference

Collaboration diagram for RollingRoad.WinApplication.Test.Unit.ViewModels.LoggerViewModelTests:



### Public Member Functions

- void [SetUp \(\)](#)
- void [Log\\_Nothing\\_HasOneEntry \(\)](#)
- void [Log\\_Nothing\\_LOGGERStartedWrittenToLog \(\)](#)
- void [Logger\\_WriteToLog\\_LogCountOne \(\)](#)
- void [Logger\\_WriteToLog\\_CorrectLogAdded \(string value\)](#)
- void [ToString\\_Nothing\\_ReturnLog \(\)](#)

#### 6.59.1 Member Function Documentation

6.59.1.1 void RollingRoad.WinApplication.Test.Unit.ViewModels.LoggerViewModelTests.Log\_Nothing\_HasOneEntry ( )  
[inline]

6.59.1.2 void RollingRoad.WinApplication.Test.Unit.ViewModels.LoggerViewModelTests.Log\_Nothing\_LOGGERStartedWritten  
ToLog ( ) [inline]

6.59.1.3 void RollingRoad.WinApplication.Test.Unit.ViewModels.LoggerViewModelTests.Logger\_WriteToLog\_CorrectLogAdded  
( string value ) [inline]

6.59.1.4 void RollingRoad.WinApplication.Test.Unit.ViewModels.LoggerViewModelTests.Logger\_WriteToLog\_LogCountOne ( )  
[inline]

6.59.1.5 void RollingRoad.WinApplication.Test.Unit.ViewModels.LoggerViewModelTests.SetUp ( ) [inline]

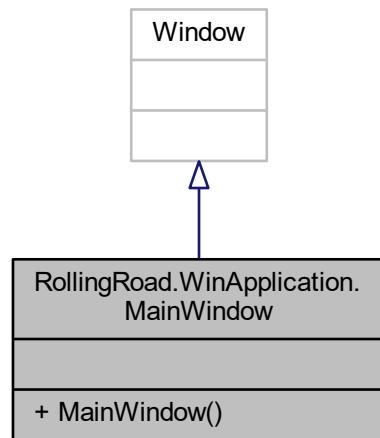
6.59.1.6 void RollingRoad.WinApplication.Test.Unit.ViewModels.LoggerViewModelTests.ToString\_Nothing\_ReturnLog ( )  
[inline]

The documentation for this class was generated from the following file:

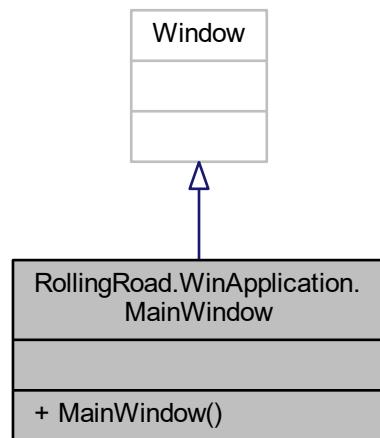
- [LoggerViewModelTests.cs](#)

## 6.60 RollingRoad.WinApplication.MainWindow Class Reference

Inheritance diagram for RollingRoad.WinApplication.MainWindow:



Collaboration diagram for RollingRoad.WinApplication.MainWindow:



### Public Member Functions

- [MainWindow \(\)](#)

### 6.60.1 Constructor & Destructor Documentation

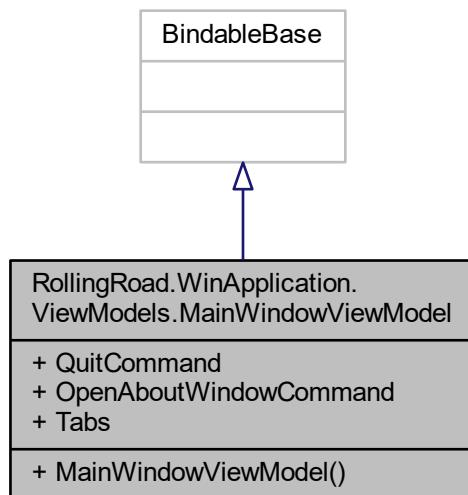
#### 6.60.1.1 RollingRoad.WinApplication.MainWindow.MainWindow( ) [inline]

The documentation for this class was generated from the following file:

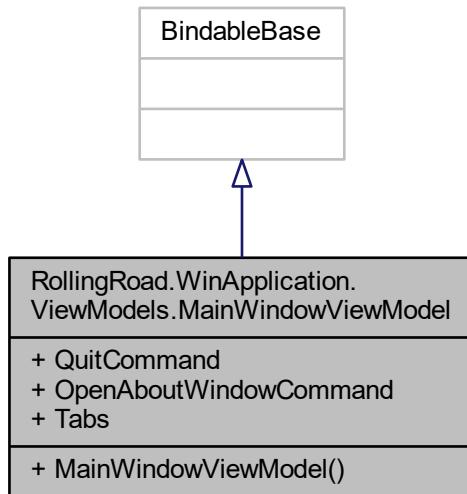
- [MainWindow.xaml.cs](#)

## 6.61 RollingRoad.WinApplication.ViewModels.MainWindowViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.MainWindowViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.MainWindowViewModel:



## Public Member Functions

- [MainWindowViewModel \(\)](#)

## Properties

- ICommand [QuitCommand](#) [get]
- ICommand [OpenAboutWindowCommand](#) [get]
- ObservableCollection< object > [Tabs](#) [get]

### 6.61.1 Constructor & Destructor Documentation

6.61.1.1 [RollingRoad.WinApplication.ViewModels.MainWindowViewModel.MainWindowViewModel \( \)](#) [inline]

### 6.61.2 Property Documentation

6.61.2.1 ICommand [RollingRoad.WinApplication.ViewModels.MainWindowViewModel.OpenAboutWindowCommand](#) [get]

6.61.2.2 ICommand [RollingRoad.WinApplication.ViewModels.MainWindowViewModel.QuitCommand](#) [get]

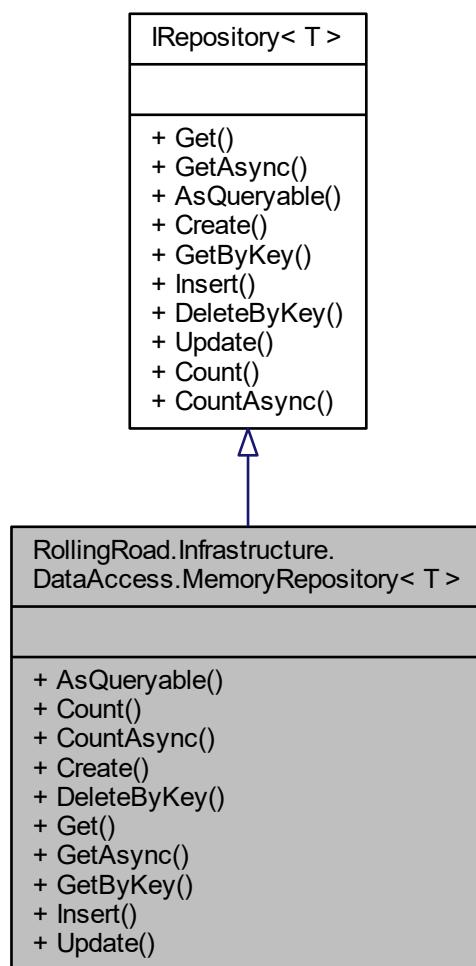
6.61.2.3 ObservableCollection<object> [RollingRoad.WinApplication.ViewModels.MainWindowViewModel.Tabs](#) [get]

The documentation for this class was generated from the following file:

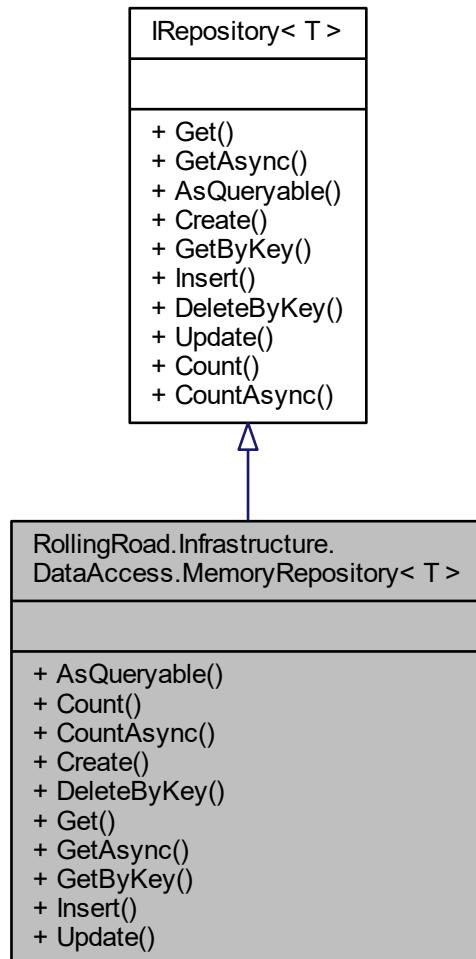
- [MainWindowViewModel.cs](#)

## 6.62 RollingRoad.Infrastructure.DataAccess.MemoryRepository< T > Class Template Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >:



## Public Member Functions

- `IQueryable< T > AsQueryable ()`
- `int Count (Expression< Func< T, bool >> filter=null)`
- `Task< int > CountAsync (Expression< Func< T, bool >> filter=null)`
- `T Create ()`
- `void DeleteByKey (params object[] key)`
- `IEnumerable< T > Get (Expression< Func< T, bool >> filter=null, Func< IQueryable< T >, IOrderedQueryable< T >> orderBy=null, string includeProperties="", int?page=default(int?), int?pageSize=default(int?))`
- `Task< IEnumerable< T > > GetAsync (Expression< Func< T, bool >> filter=null, Func< IQueryable< T >, IObservable< T >> orderBy=null, string includeProperties="", int?page=default(int?), int?pageSize=default(int?))`
- `T GetByKey (params object[] key)`
- `T Insert (T entity)`
- `void Update (T entity)`

## 6.62.1 Member Function Documentation

6.62.1.1 `IQueryable<T> RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.AsQueryable( ) [inline]`

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.62.1.2 `int RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.Count( Expression< Func< T, bool >> filter = null ) [inline]`

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.62.1.3 `Task<int> RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.CountAsync( Expression< Func< T, bool >> filter = null ) [inline]`

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.62.1.4 `T RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.Create( ) [inline]`

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.62.1.5 `void RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.DeleteByKey( params object[] key ) [inline]`

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.62.1.6 `IEnumerable<T> RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.Get( Expression< Func< T, bool >> filter = null, Func< IQueryable< T >, IOrderedQueryable< T >> orderBy = null, string includeProperties = " ", int? page = default(int?), int? pageSize = default(int?) ) [inline]`

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.62.1.7 `Task<IEnumerable<T>> RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.GetAsync( Expression< Func< T, bool >> filter = null, Func< IQueryable< T >, IOrderedQueryable< T >> orderBy = null, string includeProperties = " ", int? page = default(int?), int? pageSize = default(int?) ) [inline]`

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.62.1.8 `T RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.GetByKey( params object[] key ) [inline]`

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.62.1.9 `T RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.Insert ( T entity ) [inline]`

Implements `RollingRoad.Core.DomainServices.IRepository< T >`.

6.62.1.10 `void RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >.Update ( T entity ) [inline]`

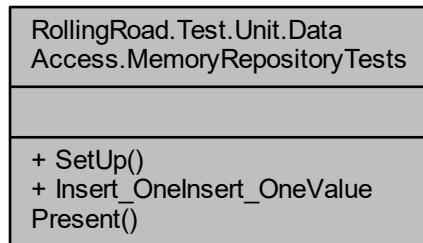
Implements `RollingRoad.Core.DomainServices.IRepository< T >`.

The documentation for this class was generated from the following file:

- `MemoryRepository.cs`

## 6.63 RollingRoad.Test.Unit.DataAccess.MemoryRepositoryTests Class Reference

Collaboration diagram for `RollingRoad.Test.Unit.DataAccess.MemoryRepositoryTests`:



### Public Member Functions

- `void SetUp ()`
- `void Insert_OneInsert_OneValuePresent ()`

#### 6.63.1 Member Function Documentation

6.63.1.1 `void RollingRoad.Test.Unit.DataAccess.MemoryRepositoryTests.Insert_OneInsert_OneValuePresent ( ) [inline]`

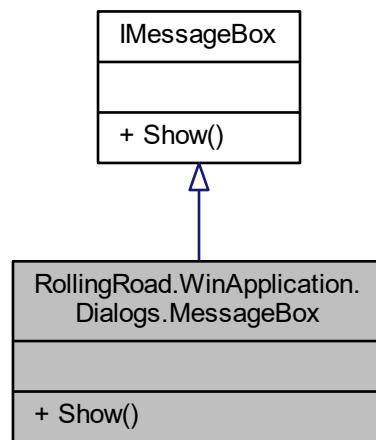
6.63.1.2 `void RollingRoad.Test.Unit.DataAccess.MemoryRepositoryTests.SetUp ( ) [inline]`

The documentation for this class was generated from the following file:

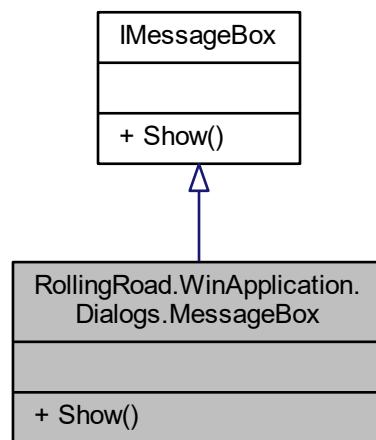
- `MemoryRepositoryTests.cs`

## 6.64 RollingRoad.WinApplication.Dialogs.MessageBox Class Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.MessageBox:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.MessageBox:



### Public Member Functions

- `MessageBoxResult Show(string title, string message, MessageBoxButton button, MessageBoxImage image)`

### 6.64.1 Member Function Documentation

6.64.1.1 `MessageBoxResult RollingRoad.WinApplication.Dialogs.MessageBox.Show ( string title, string message, MessageBoxButton button, MessageBoxImage image ) [inline]`

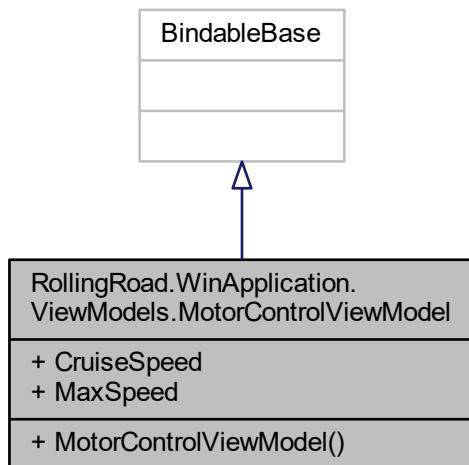
Implements [RollingRoad.WinApplication.Dialogs.IMessageBox](#).

The documentation for this class was generated from the following file:

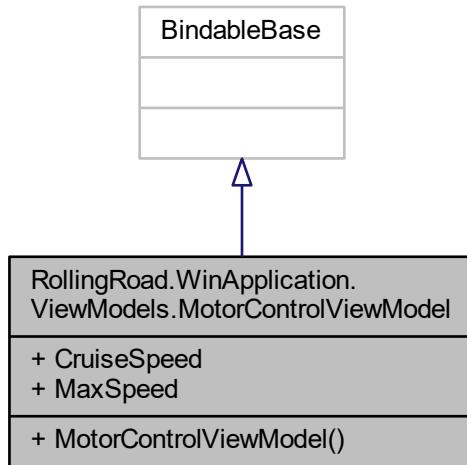
- [MessageBox.cs](#)

## 6.65 RollingRoad.WinApplication.ViewModels.MotorControlViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.MotorControlViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.MotorControlViewModel:



## Public Member Functions

- `MotorControlViewModel (IMotorControl control)`

## Properties

- `int CruiseSpeed [get, set]`
- `int MaxSpeed [get, set]`

### 6.65.1 Constructor & Destructor Documentation

6.65.1.1 `RollingRoad.WinApplication.ViewModels.MotorControlViewModel.MotorControlViewModel ( IMotorControl control )`  
[inline]

### 6.65.2 Property Documentation

6.65.2.1 `int RollingRoad.WinApplication.ViewModels.MotorControlViewModel.CruiseSpeed [get], [set]`

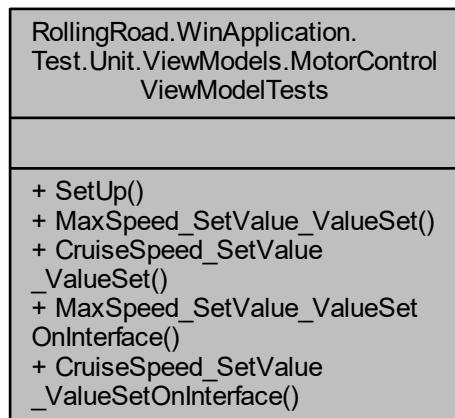
6.65.2.2 `int RollingRoad.WinApplication.ViewModels.MotorControlViewModel.MaxSpeed [get], [set]`

The documentation for this class was generated from the following file:

- `MotorControlViewModel.cs`

## 6.66 RollingRoad.WinApplication.Test.Unit.ViewModels.MotorControlViewModelTests Class Reference

Collaboration diagram for RollingRoad.WinApplication.Test.Unit.ViewModels.MotorControlViewModelTests:



### Public Member Functions

- void [SetUp \(\)](#)
- void [MaxSpeed\\_SetValue\\_ValueSet \(int value\)](#)
- void [CruiseSpeed\\_SetValue\\_ValueSet \(int value\)](#)
- void [MaxSpeed\\_SetValue\\_ValueSetOnInterface \(int value\)](#)
- void [CruiseSpeed\\_SetValue\\_ValueSetOnInterface \(int value\)](#)

#### 6.66.1 Member Function Documentation

6.66.1.1 void [RollingRoad.WinApplication.Test.Unit.ViewModels.MotorControlViewModelTests.CruiseSpeed\\_SetValue\\_ValueSet \( int value \) \[inline\]](#)

6.66.1.2 void [RollingRoad.WinApplication.Test.Unit.ViewModels.MotorControlViewModelTests.CruiseSpeed\\_SetValue\\_ValueSetOnInterface \( int value \) \[inline\]](#)

6.66.1.3 void [RollingRoad.WinApplication.Test.Unit.ViewModels.MotorControlViewModelTests.MaxSpeed\\_SetValue\\_ValueSet \( int value \) \[inline\]](#)

6.66.1.4 void [RollingRoad.WinApplication.Test.Unit.ViewModels.MotorControlViewModelTests.MaxSpeed\\_SetValue\\_ValueSetOnInterface \( int value \) \[inline\]](#)

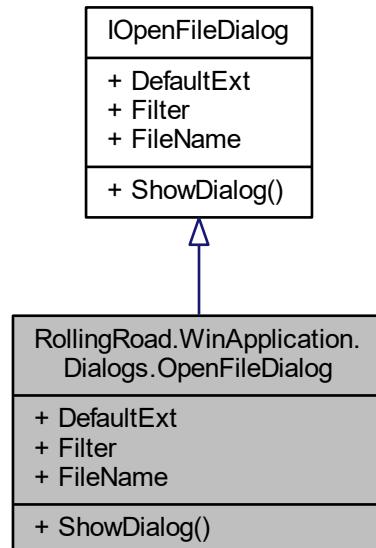
6.66.1.5 void [RollingRoad.WinApplication.Test.Unit.ViewModels.MotorControlViewModelTests.SetUp \( \) \[inline\]](#)

The documentation for this class was generated from the following file:

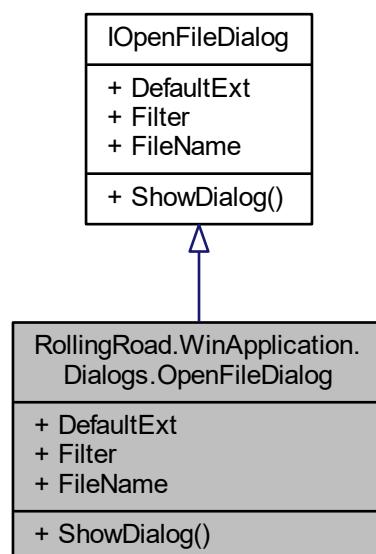
- [MotorControlViewModelTests.cs](#)

## 6.67 RollingRoad.WinApplication.Dialogs.OpenFileDialog Class Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.OpenFileDialog:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.OpenFileDialog:



## Public Member Functions

- bool [ShowDialog \(\)](#)

## Properties

- string [DefaultExt](#) [get, set]
- string [Filter](#) [get, set]
- string [FileName](#) [get]

### 6.67.1 Member Function Documentation

6.67.1.1 bool [RollingRoad.WinApplication.Dialogs.OpenFileDialog.ShowDialog \( \)](#) [inline]

Implements [RollingRoad.WinApplication.Dialogs.IOpenFileDialog](#).

### 6.67.2 Property Documentation

6.67.2.1 string [RollingRoad.WinApplication.Dialogs.OpenFileDialog.DefaultExt](#) [get], [set]

6.67.2.2 string [RollingRoad.WinApplication.Dialogs.OpenFileDialog.FileName](#) [get]

6.67.2.3 string [RollingRoad.WinApplication.Dialogs.OpenFileDialog.Filter](#) [get], [set]

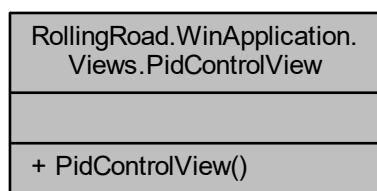
The documentation for this class was generated from the following file:

- [OpenFileDialog.cs](#)

## 6.68 RollingRoad.WinApplication.Views.PidControlView Class Reference

Interaction logic for PidControlView.xaml

Collaboration diagram for RollingRoad.WinApplication.Views.PidControlView:



## Public Member Functions

- [PidControlView \(\)](#)

### 6.68.1 Detailed Description

Interaction logic for PidControlView.xaml

### 6.68.2 Constructor & Destructor Documentation

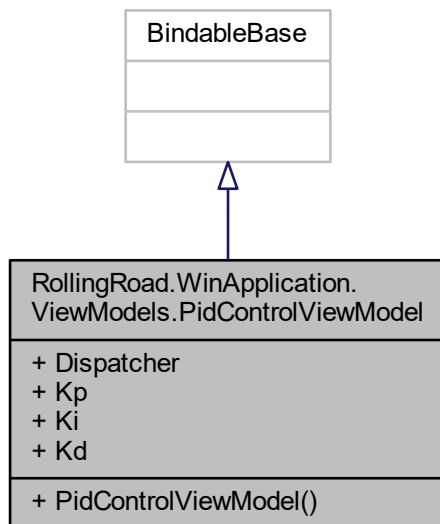
#### 6.68.2.1 RollingRoad.WinApplication.Views.PidControlView.PidControlView ( ) [inline]

The documentation for this class was generated from the following file:

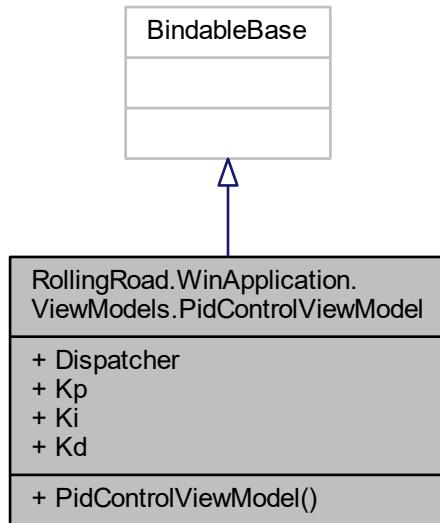
- [PidControlView.xaml.cs](#)

## 6.69 RollingRoad.WinApplication.ViewModels.PidControlViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.PidControlViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.PidControlViewModel:



## Public Member Functions

- [PidControlViewModel \(IPidControl control\)](#)

## Properties

- [IDispatcher Dispatcher \[get, set\]](#)
- [double Kp \[get, set\]](#)
- [double Ki \[get, set\]](#)
- [double Kd \[get, set\]](#)

### 6.69.1 Constructor & Destructor Documentation

6.69.1.1 [RollingRoad.WinApplication.ViewModels.PidControlViewModel.PidControlViewModel \( IPidControl control \)](#)  
[\[inline\]](#)

### 6.69.2 Property Documentation

6.69.2.1 [IDispatcher RollingRoad.WinApplication.ViewModels.PidControlViewModel.Dispatcher \[get\], \[set\]](#)

6.69.2.2 [double RollingRoad.WinApplication.ViewModels.PidControlViewModel.Kd \[get\], \[set\]](#)

6.69.2.3 [double RollingRoad.WinApplication.ViewModels.PidControlViewModel.Ki \[get\], \[set\]](#)

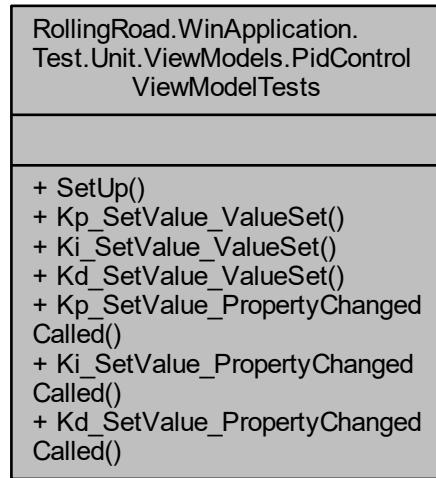
6.69.2.4 [double RollingRoad.WinApplication.ViewModels.PidControlViewModel.Kp \[get\], \[set\]](#)

The documentation for this class was generated from the following file:

- [PidControlViewModel.cs](#)

## 6.70 RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests Class Reference

Collaboration diagram for RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests:



### Public Member Functions

- void [SetUp \(\)](#)
- void [Kp\\_SetValue\\_ValueSet \(double value\)](#)
- void [Ki\\_SetValue\\_ValueSet \(double value\)](#)
- void [Kd\\_SetValue\\_ValueSet \(double value\)](#)
- void [Kp\\_SetValue\\_PropertyChangedCalled \(\)](#)
- void [Ki\\_SetValue\\_PropertyChangedCalled \(\)](#)
- void [Kd\\_SetValue\\_PropertyChangedCalled \(\)](#)

#### 6.70.1 Member Function Documentation

**6.70.1.1 void RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests.Kd\_SetValue\_PropertyChangedCalled( ) [inline]**

**6.70.1.2 void RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests.Kd\_SetValue\_ValueSet( double value ) [inline]**

**6.70.1.3 void RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests.Ki\_SetValue\_PropertyChangedCalled( ) [inline]**

**6.70.1.4 void RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests.Ki\_SetValue\_ValueSet( double value ) [inline]**

6.70.1.5 void RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests.Kp\_SetValue\_PropertyChanged←  
Called( ) [inline]

6.70.1.6 void RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests.Kp\_SetValue\_ValueSet( double  
value ) [inline]

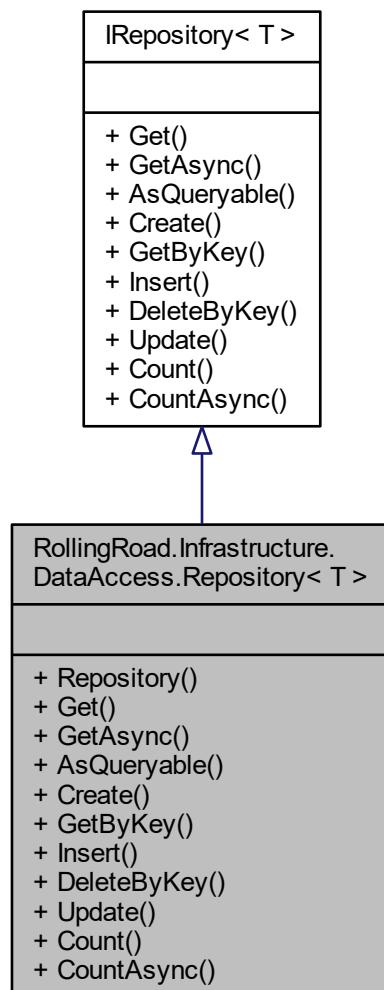
6.70.1.7 void RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests.SetUp( ) [inline]

The documentation for this class was generated from the following file:

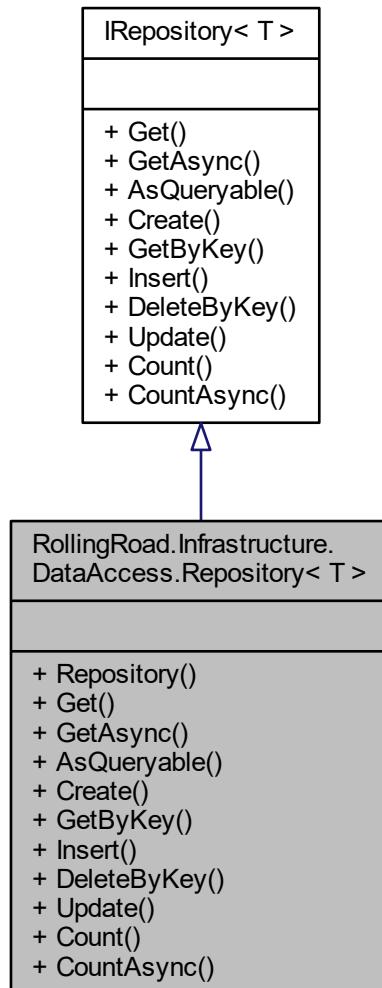
- [PidControlViewModelTests.cs](#)

## 6.71 RollingRoad.Infrastructure.DataAccess.Repository< T > Class Template Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.Repository< T >:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.Repository< T >:



## Public Member Functions

- `Repository ( IDbSet< T > dbset)`
- `IEnumerable< T > Get (Expression< Func< T, bool >> filter=null, Func< IQueryable< T >, IObservable< Queryable< T >> orderBy=null, string includeProperties="", int?page=null, int?pageSize=null)`
- `async Task< IEnumerable< T > > GetAsync (Expression< Func< T, bool >> filter=null, Func< IObservable< Queryable< T >, IObservable< Queryable< T >> orderBy=null, string includeProperties="", int?page=null, int?pageSize=null)`
- `IQueryable< T > AsQueryable ()`
- `T Create ()`
- `T GetByKey (params object[] key)`
- `T Insert (T entity)`
- `void DeleteByKey (params object[] key)`
- `void Update (T entity)`
- `int Count (Expression< Func< T, bool >> filter=null)`
- `async Task< int > CountAsync (Expression< Func< T, bool >> filter=null)`

## 6.71.1 Constructor & Destructor Documentation

6.71.1.1 **RollingRoad.Infrastructure.DataAccess.Repository< T >.Repository ( IDbSet< T > dbset )** [inline]

## 6.71.2 Member Function Documentation

6.71.2.1 **IQueryable<T> RollingRoad.Infrastructure.DataAccess.Repository< T >.AsQueryable ( )** [inline]

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.71.2.2 **int RollingRoad.Infrastructure.DataAccess.Repository< T >.Count ( Expression< Func< T, bool >> filter = null )** [inline]

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.71.2.3 **async Task<int> RollingRoad.Infrastructure.DataAccess.Repository< T >.CountAsync ( Expression< Func< T, bool >> filter = null )** [inline]

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.71.2.4 **T RollingRoad.Infrastructure.DataAccess.Repository< T >.Create ( )** [inline]

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.71.2.5 **void RollingRoad.Infrastructure.DataAccess.Repository< T >.DeleteByKey ( params object[] key )** [inline]

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.71.2.6 **IEnumerable<T> RollingRoad.Infrastructure.DataAccess.Repository< T >.Get ( Expression< Func< T, bool >> filter = null, Func< IQueryable< T >, IOrderedQueryable< T >> orderBy = null, string includeProperties = " ", int? page = null, int? pageSize = null )** [inline]

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.71.2.7 **async Task<IQueryable<T>> RollingRoad.Infrastructure.DataAccess.Repository< T >.GetAsync ( Expression< Func< T, bool >> filter = null, Func< IQueryable< T >, IOrderedQueryable< T >> orderBy = null, string includeProperties = " ", int? page = null, int? pageSize = null )** [inline]

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.71.2.8 `T RollingRoad.Infrastructure.DataAccess.Repository< T >.GetByKey ( params object[] key )` [inline]

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.71.2.9 `T RollingRoad.Infrastructure.DataAccess.Repository< T >.Insert ( T entity )` [inline]

Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

6.71.2.10 `void RollingRoad.Infrastructure.DataAccess.Repository< T >.Update ( T entity )` [inline]

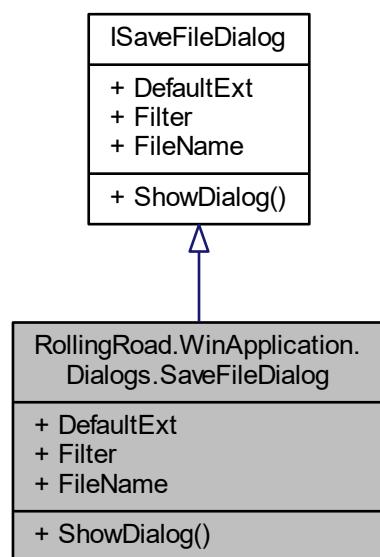
Implements [RollingRoad.Core.DomainServices.IRepository< T >](#).

The documentation for this class was generated from the following file:

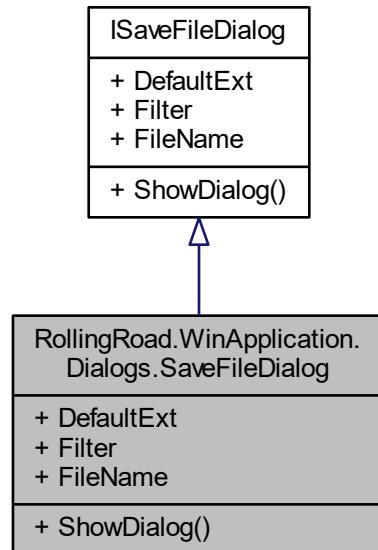
- [Repository.cs](#)

## 6.72 RollingRoad.WinApplication.Dialogs.SaveFileDialog Class Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.SaveFileDialog:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.SaveFileDialog:



## Public Member Functions

- bool [ShowDialog \(\)](#)

## Properties

- string [DefaultExt](#) [get, set]
- string [Filter](#) [get, set]
- string [FileName](#) [get]

### 6.72.1 Member Function Documentation

#### 6.72.1.1 bool RollingRoad.WinApplication.Dialogs.SaveFileDialog.ShowDialog ( ) [inline]

Implements [RollingRoad.WinApplication.Dialogs.ISaveFileDialog](#).

### 6.72.2 Property Documentation

#### 6.72.2.1 string RollingRoad.WinApplication.Dialogs.SaveFileDialog.DefaultExt [get], [set]

#### 6.72.2.2 string RollingRoad.WinApplication.Dialogs.SaveFileDialog.FileName [get]

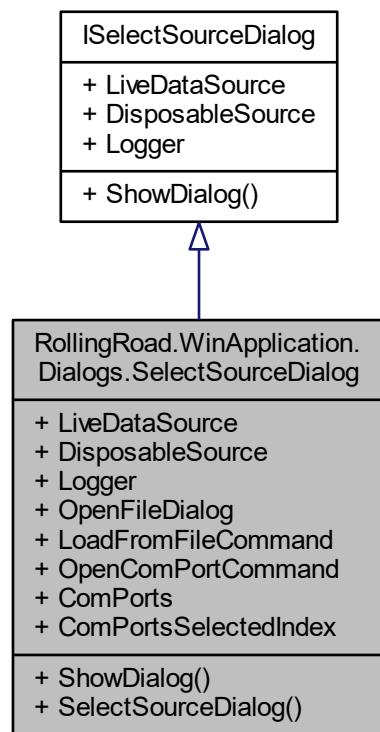
#### 6.72.2.3 string RollingRoad.WinApplication.Dialogs.SaveFileDialog.Filter [get], [set]

The documentation for this class was generated from the following file:

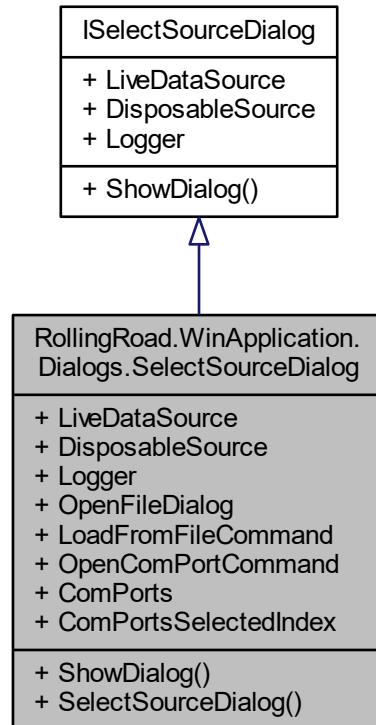
- [SaveFileDialog.cs](#)

## 6.73 RollingRoad.WinApplication.Dialogs.SelectSourceDialog Class Reference

Inheritance diagram for RollingRoad.WinApplication.Dialogs.SelectSourceDialog:



Collaboration diagram for RollingRoad.WinApplication.Dialogs.SelectSourceDialog:



## Public Member Functions

- bool [ShowDialog \(\)](#)
- [SelectSourceDialog \(\)](#)

## Properties

- [ILiveDataSource LiveDataSource \[get\]](#)
- [IDisposable DisposableSource \[get\]](#)
- [ILogger Logger \[get, set\]](#)
- [IFileDialog OpenFileDialog \[get, set\]](#)
- [ICommand LoadFromFileCommand \[get\]](#)
- [ICommand OpenComPortCommand \[get\]](#)
- [ObservableCollection< string > ComPorts \[get\]](#)
- [int ComPortsSelectedIndex \[get, set\]](#)

## Events

- [EventHandler< bool > OnClose](#)

### 6.73.1 Constructor & Destructor Documentation

6.73.1.1 `RollingRoad.WinApplication.Dialogs.SelectSourceDialog.SelectSourceDialog( )` [inline]

### 6.73.2 Member Function Documentation

6.73.2.1 `bool RollingRoad.WinApplication.Dialogs.SelectSourceDialog.ShowDialog( )` [inline]

Implements [RollingRoad.WinApplication.Dialogs.ISelectSourceDialog](#).

### 6.73.3 Property Documentation

6.73.3.1 `ObservableCollection<string> RollingRoad.WinApplication.Dialogs.SelectSourceDialog.ComPorts` [get]

6.73.3.2 `int RollingRoad.WinApplication.Dialogs.SelectSourceDialog.ComPortsSelectedIndex` [get], [set]

6.73.3.3 `IDisposable RollingRoad.WinApplication.Dialogs.SelectSourceDialog.DisposableSource` [get]

6.73.3.4 `ILiveDataSource RollingRoad.WinApplication.Dialogs.SelectSourceDialog.LiveDataSource` [get]

6.73.3.5 `ICommand RollingRoad.WinApplication.Dialogs.SelectSourceDialog.LoadFromFileCommand` [get]

#### Initial value:

```
= new OpenFileDialog()
{
    DefaultExt = ".csv",
    Filter = "CSV Files (*.csv)|*.csv"
}
```

6.73.3.6 `ILogger RollingRoad.WinApplication.Dialogs.SelectSourceDialog.Logger` [get], [set]

6.73.3.7 `ICommand RollingRoad.WinApplication.Dialogs.SelectSourceDialog.OpenComPortCommand` [get]

6.73.3.8 `IFileDialog RollingRoad.WinApplication.Dialogs.SelectSourceDialog.OpenFileDialog` [get], [set]

### 6.73.4 Event Documentation

6.73.4.1 `EventHandler<bool> RollingRoad.WinApplication.Dialogs.SelectSourceDialog.OnClose`

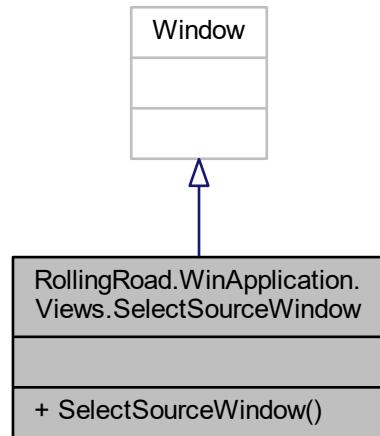
The documentation for this class was generated from the following file:

- [SelectSourceDialog.cs](#)

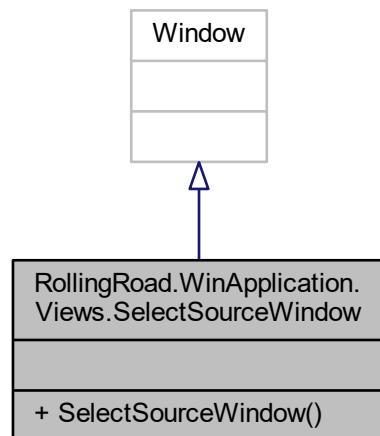
## 6.74 RollingRoad.WinApplication.Views.SelectSourceWindow Class Reference

Interaction logic for SelectSourceDialog.xaml

Inheritance diagram for RollingRoad.WinApplication.Views.SelectSourceWindow:



Collaboration diagram for RollingRoad.WinApplication.Views.SelectSourceWindow:



### Public Member Functions

- `SelectSourceWindow (ISelectSourceDialog vm)`

### 6.74.1 Detailed Description

Interaction logic for SelectSourceDialog.xaml

### 6.74.2 Constructor & Destructor Documentation

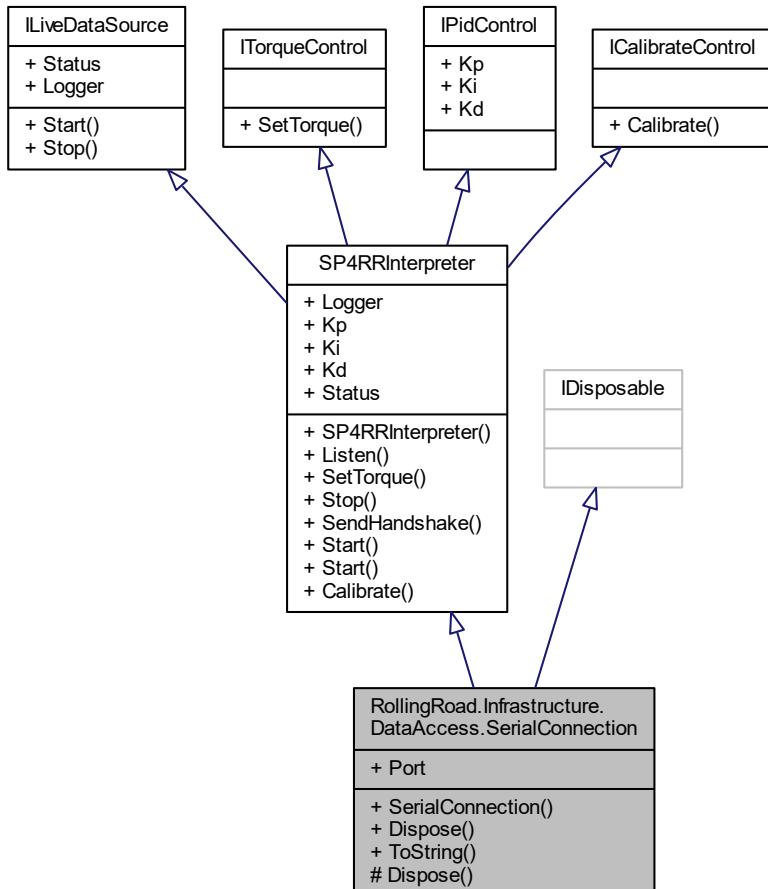
#### 6.74.2.1 RollingRoad.WinApplication.Views.SelectSourceWindow.SelectSourceWindow ( ISelectSourceDialog vm ) [inline]

The documentation for this class was generated from the following file:

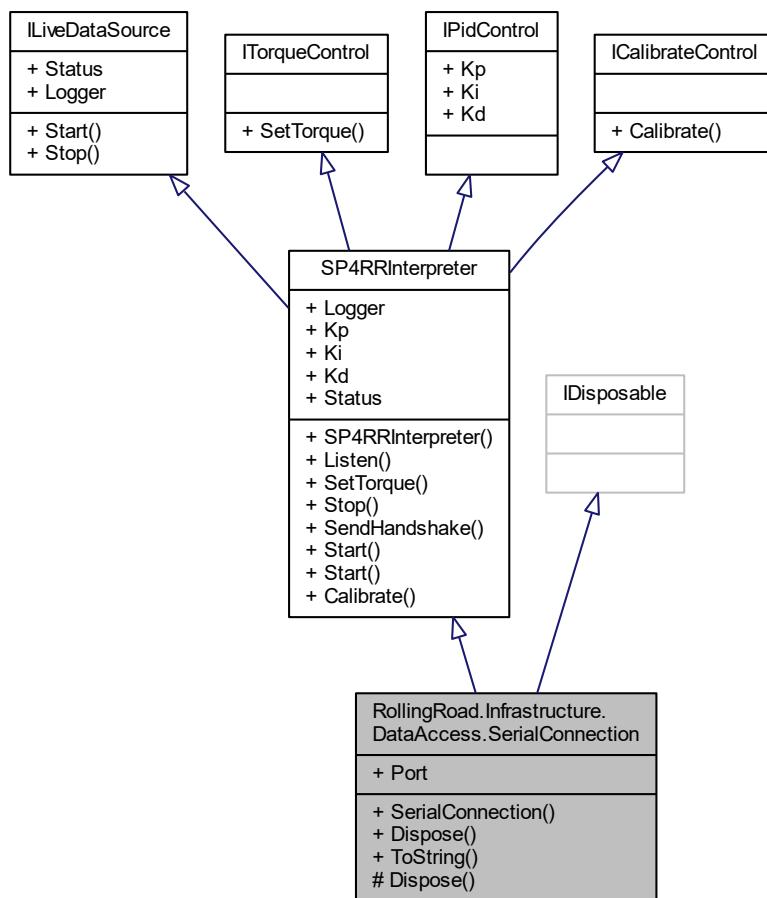
- [SelectSourceWindow.xaml.cs](#)

## 6.75 RollingRoad.Infrastructure.DataAccess.SerialConnection Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.SerialConnection:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.SerialConnection:



## Public Member Functions

- [SerialConnection \(SerialPort port\)](#)
- void [Dispose \(\)](#)
- override string [ToString \(\)](#)

## Protected Member Functions

- virtual void [Dispose \(bool disposing\)](#)

## Properties

- SerialPort [Port](#) [get]

## Additional Inherited Members

### 6.75.1 Constructor & Destructor Documentation

6.75.1.1 `RollingRoad.Infrastructure.DataAccess.SerialConnection.SerialConnection ( SerialPort port ) [inline]`

### 6.75.2 Member Function Documentation

6.75.2.1 `void RollingRoad.Infrastructure.DataAccess.SerialConnection.Dispose ( ) [inline]`

6.75.2.2 `virtual void RollingRoad.Infrastructure.DataAccess.SerialConnection.Dispose ( bool disposing ) [inline], [protected], [virtual]`

6.75.2.3 `override string RollingRoad.Infrastructure.DataAccess.SerialConnection.ToString ( ) [inline]`

### 6.75.3 Property Documentation

6.75.3.1 `SerialPort RollingRoad.Infrastructure.DataAccess.SerialConnection.Port [get]`

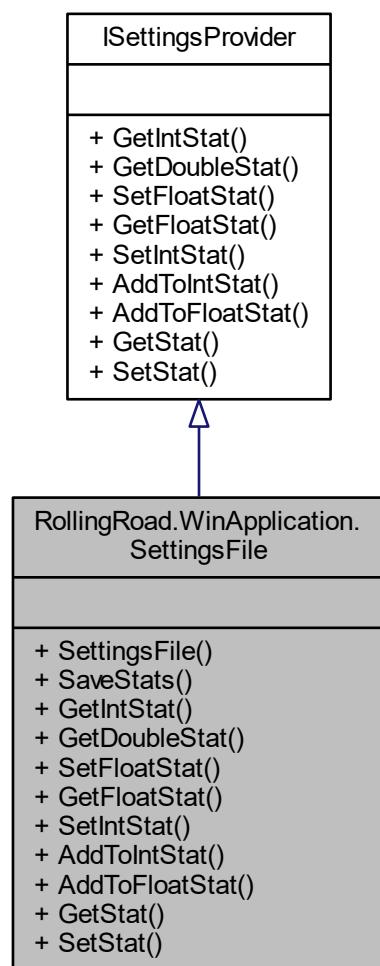
The documentation for this class was generated from the following file:

- [SerialConnection.cs](#)

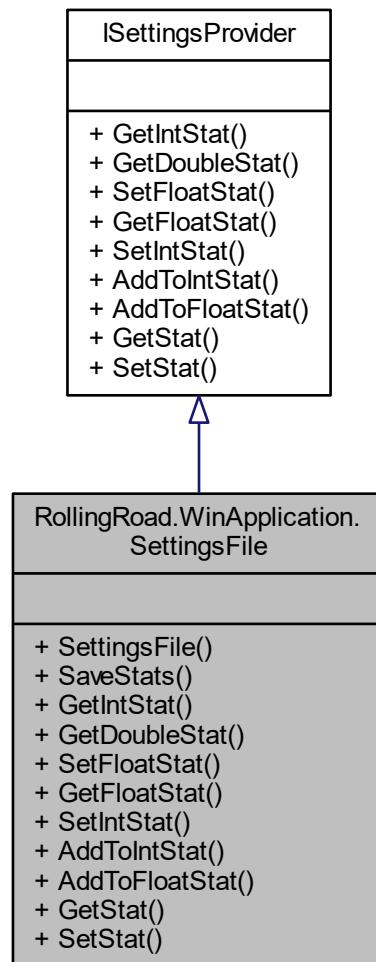
## 6.76 RollingRoad.WinApplication.SettingsFile Class Reference

Settings file originally used in the game "Norse"

Inheritance diagram for RollingRoad.WinApplication.SettingsFile:



Collaboration diagram for RollingRoad.WinApplication.SettingsFile:



## Public Member Functions

- **SettingsFile** (string path)  
*Try to load or create a new settings file*
- void **SaveStats** ()  
*Save stats to file*
- int **GetIntStat** (string stat, int defaultValue=0)  
*Read int stats*
- double **GetDoubleStat** (string stat, double defaultValue=0)
- void **SetFloatStat** (string stat, float value)  
*Write float stat to file*
- float **GetFloatStat** (string stat)  
*Get float stat from file or cache*
- void **SetIntStat** (string stat, int value)

- Set int stat*
- void [AddToIntStat](#) (string stat, int value)
- Add to int stat*
- void [AddToFloatStat](#) (string stat, float value)
- Add to float stat*
- string [GetStat](#) (string stat)
- Get stat*
- void [SetStat](#) (string stat, string value)
- Set stat, auto saves to file*

### 6.76.1 Detailed Description

Settings file originally used in the game "Norse"

### 6.76.2 Constructor & Destructor Documentation

#### 6.76.2.1 `RollingRoad.WinApplication.SettingsFile.SettingsFile( string path )` [inline]

Try to load or create a new settings file

##### Parameters

<i>path</i>	The path of the file to open/create
-------------	-------------------------------------

### 6.76.3 Member Function Documentation

#### 6.76.3.1 `void RollingRoad.WinApplication.SettingsFile.AddToFloatStat( string stat, float value )` [inline]

Add to float stat

##### Parameters

<i>stat</i>	Stat key
<i>value</i>	How much to add to key

Implements [RollingRoad.WinApplication.ISettingsProvider](#).

#### 6.76.3.2 `void RollingRoad.WinApplication.SettingsFile.AddToIntStat( string stat, int value )` [inline]

Add to int stat

##### Parameters

<i>stat</i>	Stat key
<i>value</i>	How much to add to key

Implements [RollingRoad.WinApplication.ISettingsProvider](#).

#### 6.76.3.3 double RollingRoad.WinApplication.SettingsFile.GetDoubleStat ( string stat, double defaultValue = 0 ) [inline]

Implements [RollingRoad.WinApplication.ISettingsProvider](#).

#### 6.76.3.4 float RollingRoad.WinApplication.SettingsFile.GetFloatStat ( string stat ) [inline]

Get float stat from file or cache

Parameters

<i>stat</i>	The stat to retrieve
-------------	----------------------

Returns

Value of the stat, if unable to load or parse 0 will be returned

Implements [RollingRoad.WinApplication.ISettingsProvider](#).

#### 6.76.3.5 int RollingRoad.WinApplication.SettingsFile.GetIntStat ( string stat, int defaultValue = 0 ) [inline]

Read int stats

Parameters

<i>stat</i>	The stat to retrieve
-------------	----------------------

Returns

Value of the stat, if unable to load or parse 0 will be returned

Implements [RollingRoad.WinApplication.ISettingsProvider](#).

#### 6.76.3.6 string RollingRoad.WinApplication.SettingsFile.GetStat ( string stat ) [inline]

Get stat

Parameters

<i>stat</i>	Stat key
-------------	----------

Returns

Returns empty string if not found, else it return the string value of the key

Implements [RollingRoad.WinApplication.ISettingsProvider](#).

6.76.3.7 void RollingRoad.WinApplication.SettingsFile.SaveStats( ) [inline]

Save stats to file

6.76.3.8 void RollingRoad.WinApplication.SettingsFile.SetFloatStat( string stat, float value ) [inline]

Write float stat to file

Parameters

<i>stat</i>	Stat key
<i>value</i>	Value to write

Implements [RollingRoad.WinApplication.ISettingsProvider](#).

6.76.3.9 void RollingRoad.WinApplication.SettingsFile.SetIntStat( string stat, int value ) [inline]

Set int stat

Parameters

<i>stat</i>	Stat key
<i>value</i>	Stat value

Implements [RollingRoad.WinApplication.ISettingsProvider](#).

6.76.3.10 void RollingRoad.WinApplication.SettingsFile.SetStat( string stat, string value ) [inline]

Set stat, auto saves to file

Parameters

<i>stat</i>	Stat key
<i>value</i>	Stat value

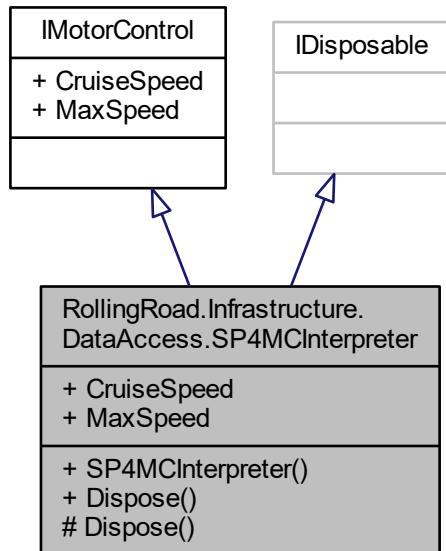
Implements [RollingRoad.WinApplication.ISettingsProvider](#).

The documentation for this class was generated from the following file:

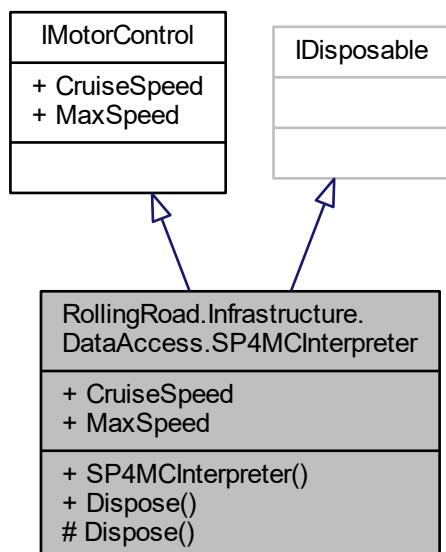
- [SettingsFile.cs](#)

## 6.77 RollingRoad.Infrastructure.DataAccess.SP4MCInterpreter Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.SP4MCInterpreter:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.SP4MCInterpreter:



## Public Member Functions

- [SP4MCInterpreter](#) (`Stream stream`)
- void [Dispose](#) ()

## Protected Member Functions

- virtual void [Dispose](#) (`bool disposing`)

## Properties

- int [CruiseSpeed](#) [get, set]
- int [MaxSpeed](#) [get, set]

### 6.77.1 Constructor & Destructor Documentation

6.77.1.1 `RollingRoad.Infrastructure.DataAccess.SP4MCInterpreter.SP4MCInterpreter ( Stream stream )` [[inline](#)]

### 6.77.2 Member Function Documentation

6.77.2.1 `void RollingRoad.Infrastructure.DataAccess.SP4MCInterpreter.Dispose ( )` [[inline](#)]

6.77.2.2 `virtual void RollingRoad.Infrastructure.DataAccess.SP4MCInterpreter.Dispose ( bool disposing )` [[inline](#)],  
[[protected](#)], [[virtual](#)]

### 6.77.3 Property Documentation

6.77.3.1 `int RollingRoad.Infrastructure.DataAccess.SP4MCInterpreter.CruiseSpeed` [`get`], [`set`]

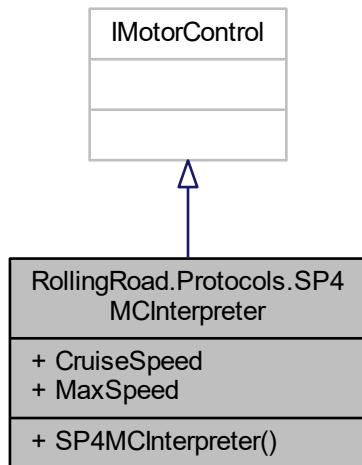
6.77.3.2 `int RollingRoad.Infrastructure.DataAccess.SP4MCInterpreter.MaxSpeed` [`get`], [`set`]

The documentation for this class was generated from the following file:

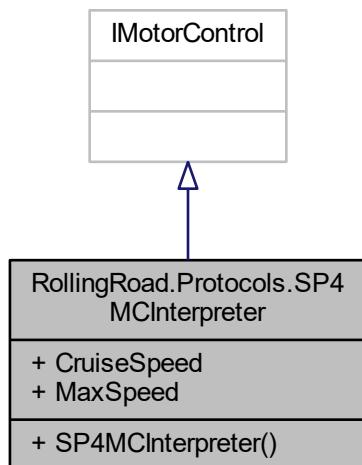
- [SP4MCInterpreter.cs](#)

## 6.78 RollingRoad.Protocols.SP4MCInterpreter Class Reference

Inheritance diagram for RollingRoad.Protocols.SP4MCInterpreter:



Collaboration diagram for RollingRoad.Protocols.SP4MCInterpreter:



### Public Member Functions

- [SP4MCInterpreter \(Stream stream\)](#)

## Properties

- int [CruiseSpeed](#) [get, set]
- int [MaxSpeed](#) [get, set]

### 6.78.1 Constructor & Destructor Documentation

6.78.1.1 [RollingRoad.Protocols.SP4MCInterpreter.SP4MCInterpreter \( Stream stream \)](#) [inline]

### 6.78.2 Property Documentation

6.78.2.1 int [RollingRoad.Protocols.SP4MCInterpreter.CruiseSpeed](#) [get], [set]

6.78.2.2 int [RollingRoad.Protocols.SP4MCInterpreter.MaxSpeed](#) [get], [set]

The documentation for this class was generated from the following file:

- [Protocols/SP4MCInterpreter.cs](#)

## 6.79 RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests Class Reference

Collaboration diagram for RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests:

RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests
+ SetUp() + TearDown() + SetCruiseSpeed_PositiveValue _ValueSent() + SetMaxSpeed_PositiveValue _ValueSent() + SetCruiseSpeed_PositiveValue _CorrectId() + SetMaxSpeed_PositiveValue _CorrectId()

## Public Member Functions

- void [SetUp \(\)](#)
- void [TearDown \(\)](#)
- void [SetCruiseSpeed\\_PositiveValue\\_ValueSent \(int value\)](#)
- void [SetMaxSpeed\\_PositiveValue\\_ValueSent \(int value\)](#)
- void [SetCruiseSpeed\\_PositiveValue\\_CorrectId \(\)](#)
- void [SetMaxSpeed\\_PositiveValue\\_CorrectId \(\)](#)

### 6.79.1 Member Function Documentation

6.79.1.1 void RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests.SetCruiseSpeed\_PositiveValue\_CorrectId ( )  
[inline]

6.79.1.2 void RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests.SetCruiseSpeed\_PositiveValue\_ValueSent ( int *value* )  
[inline]

6.79.1.3 void RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests.SetMaxSpeed\_PositiveValue\_CorrectId ( )  
[inline]

6.79.1.4 void RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests.SetMaxSpeed\_PositiveValue\_ValueSent ( int *value* )  
[inline]

6.79.1.5 void RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests.SetUp ( ) [inline]

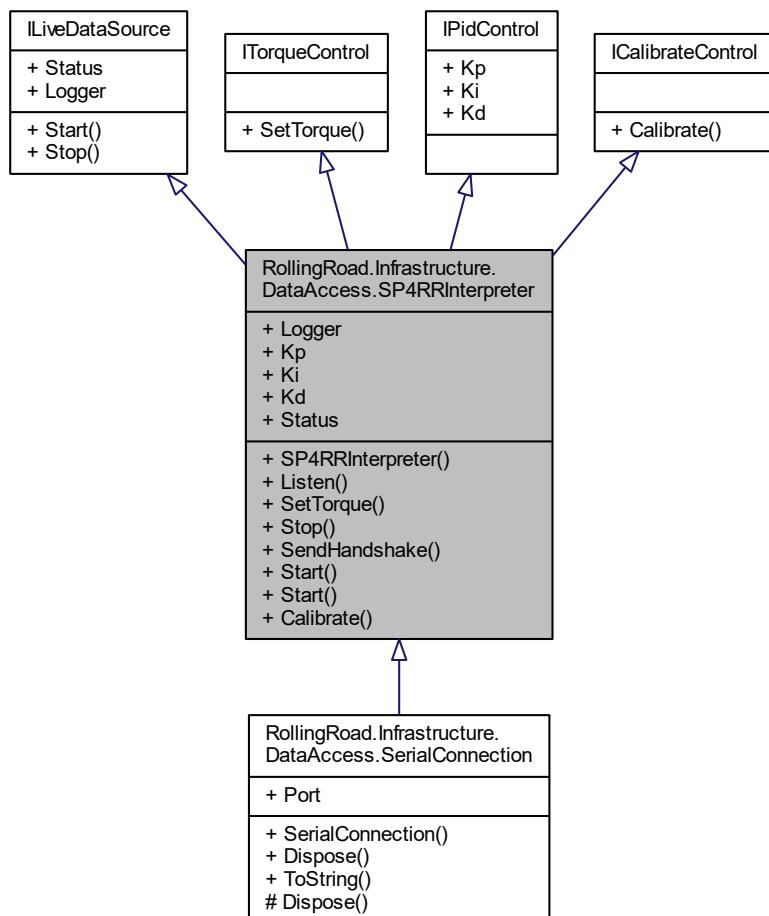
6.79.1.6 void RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests.TearDown ( ) [inline]

The documentation for this class was generated from the following file:

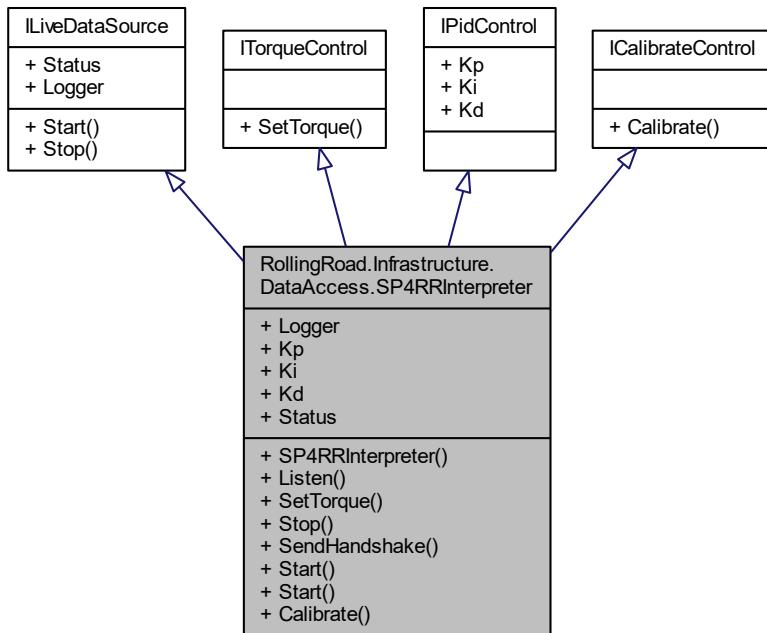
- [SP4MCInterpreterTests.cs](#)

## 6.80 RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter:



## Public Member Functions

- `SP4RRInterpreter` (StreamReader reader, StreamWriter writer)
- void `Listen` ()
 

*Listens a single time for incoming messages (Is blocking until the line is received)*
- void `SetTorque` (double torque)
 

*Send a new torque to set to the rollingroad*
- void `Stop` ()
 

*Stops the transmission/receiving of data*
- void `SendHandshake` ()
 

*Starts the transmission/receiving of data*
- void `Start` (bool startThread)
 

*Starts the transmission/receiving of data*
- void `Calibrate` ()
 

*Starts the transmission/receiving of data*

## Properties

- `ILogger Logger` [get, set]
 

*Logger used*
- double `Kp` [get, set]
- double `Ki` [get, set]
- double `Kd` [get, set]
- `LiveDataSourceStatus Status` [get]

## Events

- EventHandler< [LiveDataPointsEventArgs](#) > [OnNextReadValue](#)  
*Updated each time a fullset of data has been received.*
- OnStatusUpdate [OnStatusChange](#)

### 6.80.1 Constructor & Destructor Documentation

6.80.1.1 `RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.SP4RRInterpreter ( StreamReader reader, StreamWriter writer ) [inline]`

### 6.80.2 Member Function Documentation

6.80.2.1 `void RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Calibrate ( ) [inline]`

Implements [RollingRoad.Core.ApplicationServices.ILocalizeControl](#).

6.80.2.2 `void RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Listen ( ) [inline]`

Listens a single time for incoming messages (Is blocking until the line is received)

6.80.2.3 `void RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.SendHandshake ( ) [inline]`

6.80.2.4 `void RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.SetTorque ( double torque ) [inline]`

Send a new torque to set to the rollingroad

#### Parameters

<code>torque</code>	<input type="text"/>
---------------------	----------------------

Implements [RollingRoad.Core.ApplicationServices.ITorqueControl](#).

6.80.2.5 `void RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Start ( ) [inline]`

Starts the transmission/receiving of data

Implements [RollingRoad.Core.ApplicationServices.ILiveDataSource](#).

6.80.2.6 `void RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Start ( bool startThread ) [inline]`

6.80.2.7 `void RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Stop ( ) [inline]`

Stops the transmission/receiving of data

Implements [RollingRoad.Core.ApplicationServices.ILiveDataSource](#).

### 6.80.3 Property Documentation

- 6.80.3.1 double RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Kd [get], [set]
- 6.80.3.2 double RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Ki [get], [set]
- 6.80.3.3 double RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Kp [get], [set]
- 6.80.3.4 ILogger RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Logger [get], [set]

Logger used

- 6.80.3.5 LiveDataDataSource RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.Status [get]

### 6.80.4 Event Documentation

- 6.80.4.1 EventHandler<LiveDataPointsEventArgs> RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.OnNext←  
ReadValue

Updated each time a fullset om data has been received.

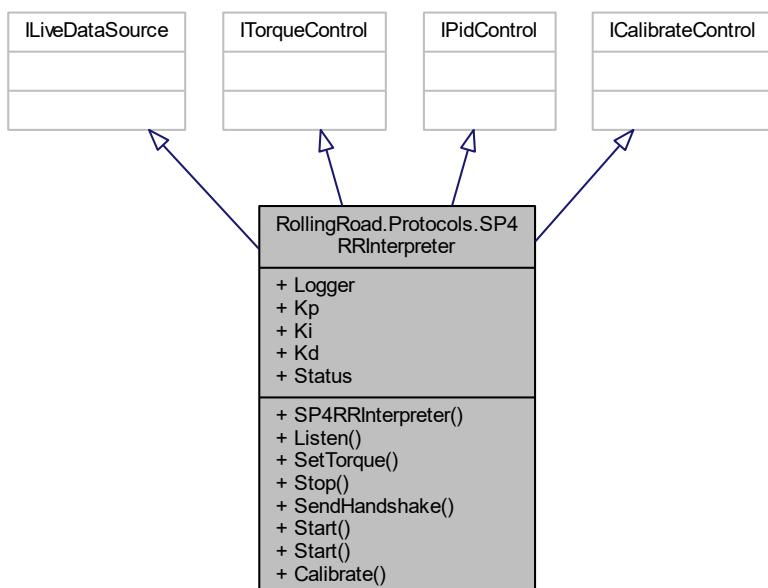
- 6.80.4.2 OnStatusUpdate RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter.OnStatusChange

The documentation for this class was generated from the following file:

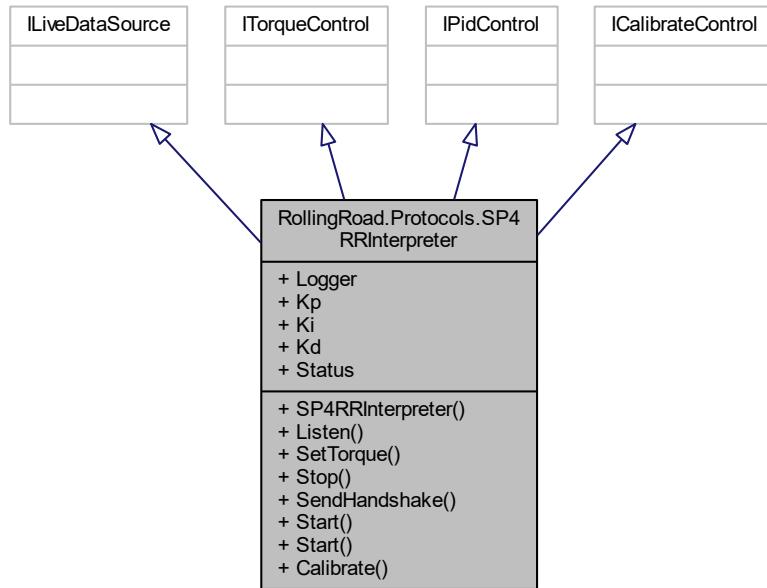
- [SP4RRInterpreter.cs](#)

## 6.81 RollingRoad.Protocols.SP4RRInterpreter Class Reference

Inheritance diagram for RollingRoad.Protocols.SP4RRInterpreter:



Collaboration diagram for RollingRoad.Protocols.SP4RRInterpreter:



## Public Member Functions

- `SP4RRInterpreter (StreamReader reader, StreamWriter writer)`
- void `Listen ()`  
*Listens a single time for incoming messages (Is blocking until the line is received)*
- void `SetTorque (double torque)`  
*Send a new torque to set to the rollingroad*
- void `Stop ()`
- void `SendHandshake ()`
- void `Start ()`
- void `Start (bool startThread)`
- void `Calibrate ()`

## Properties

- `ILogger Logger [get, set]`  
*Logger used*
- `double Kp [get, set]`
- `double Ki [get, set]`
- `double Kd [get, set]`
- `LiveDataSourceStatus Status [get]`

## Events

- `ReadOnlyDataEntryList OnNextReadValue`  
*Updated each time a fullset of data has been received.*
- `OnStatusUpdate OnStatusChange`

### 6.81.1 Constructor & Destructor Documentation

6.81.1.1 `RollingRoad.Protocols.SP4RRInterpreter.SP4RRInterpreter ( StreamReader reader, StreamWriter writer )` [inline]

### 6.81.2 Member Function Documentation

6.81.2.1 `void RollingRoad.Protocols.SP4RRInterpreter.Calibrate ( )` [inline]

6.81.2.2 `void RollingRoad.Protocols.SP4RRInterpreter.Listen ( )` [inline]

Lists a single time for incoming messages (Is blocking until the line is received)

6.81.2.3 `void RollingRoad.Protocols.SP4RRInterpreter.SendHandshake ( )` [inline]

6.81.2.4 `void RollingRoad.Protocols.SP4RRInterpreter.SetTorque ( double torque )` [inline]

Send a new torque to set to the rollingroad

#### Parameters

`torque`

6.81.2.5 `void RollingRoad.Protocols.SP4RRInterpreter.Start ( )` [inline]

6.81.2.6 `void RollingRoad.Protocols.SP4RRInterpreter.Start ( bool startThread )` [inline]

6.81.2.7 `void RollingRoad.Protocols.SP4RRInterpreter.Stop ( )` [inline]

### 6.81.3 Property Documentation

6.81.3.1 `double RollingRoad.Protocols.SP4RRInterpreter.Kd [get], [set]`

6.81.3.2 `double RollingRoad.Protocols.SP4RRInterpreter.Ki [get], [set]`

6.81.3.3 `double RollingRoad.Protocols.SP4RRInterpreter.Kp [get], [set]`

6.81.3.4 `ILogger RollingRoad.Protocols.SP4RRInterpreter.Logger [get], [set]`

Logger used

6.81.3.5 `LiveDataSourceStatus RollingRoad.Protocols.SP4RRInterpreter.Status` [get]

#### 6.81.4 Event Documentation

6.81.4.1 `ReadOnlyDataEntryList RollingRoad.Protocols.SP4RRInterpreter.OnNextReadValue`

Updated each time a fullset om data has been received.

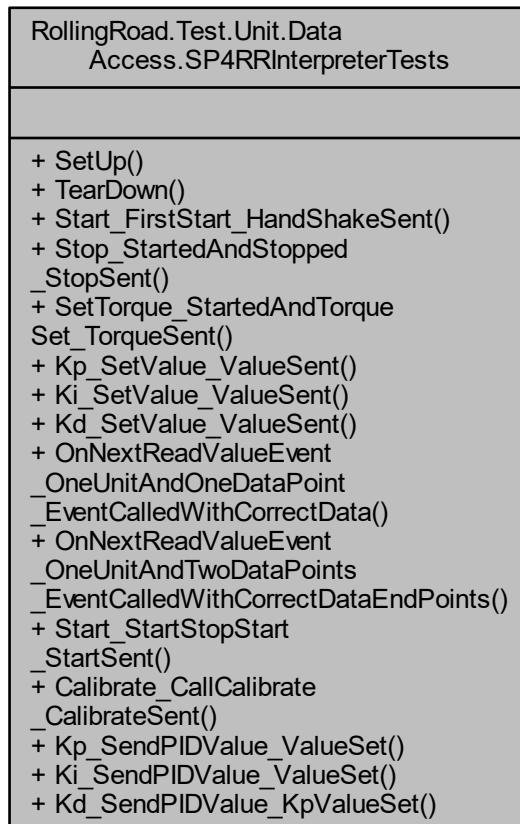
6.81.4.2 `OnStatusUpdate RollingRoad.Protocols.SP4RRInterpreter.OnStatusChange`

The documentation for this class was generated from the following file:

- [Protocols/SP4RRInterpreter.cs](#)

## 6.82 RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests Class Reference

Collaboration diagram for RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests:



## Public Member Functions

- void [SetUp \(\)](#)
- void [TearDown \(\)](#)
- void [Start\\_FirstStart\\_HandShakeSent \(\)](#)
- void [Stop\\_StartedAndStopped\\_StopSent \(\)](#)
- void [SetTorque\\_StartedAndTorqueSet\\_TorqueSent \(double value\)](#)
- void [Kp\\_SetValue\\_ValueSent \(double value\)](#)
- void [Ki\\_SetValue\\_ValueSent \(double value\)](#)
- void [Kd\\_SetValue\\_ValueSent \(double value\)](#)
- void [OnNextReadValueEvent\\_OneUnitAndOneDataPoint\\_EventCalledWithCorrectData \(double value\)](#)
- void [OnNextReadValueEvent\\_OneUnitAndTwoDataPoints\\_EventCalledWithCorrectDataEndPoints \(double value\)](#)
- void [Start\\_StartStopStart\\_StartSent \(\)](#)
- void [Calibrate\\_CallCalibrate\\_CalibrateSent \(\)](#)
- void [Kp\\_SendPIDValue\\_ValueSet \(double value\)](#)
- void [Ki\\_SendPIDValue\\_ValueSet \(double value\)](#)
- void [Kd\\_SendPIDValue\\_KpValueSet \(double value\)](#)

### 6.82.1 Member Function Documentation

- 6.82.1.1 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Calibrate\\_CallCalibrate\\_CalibrateSent \( \)](#)  
[inline]
- 6.82.1.2 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Kd\\_SendPIDValue\\_KpValueSet \( double value \)](#)  
[inline]
- 6.82.1.3 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Kd\\_SetValue\\_ValueSent \( double value \)](#)  
[inline]
- 6.82.1.4 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Ki\\_SendPIDValue\\_ValueSet \( double value \)](#)  
[inline]
- 6.82.1.5 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Ki\\_SetValue\\_ValueSent \( double value \)](#) [inline]
- 6.82.1.6 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Kp\\_SendPIDValue\\_ValueSet \( double value \)](#)  
[inline]
- 6.82.1.7 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Kp\\_SetValue\\_ValueSent \( double value \)](#)  
[inline]
- 6.82.1.8 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.OnNextReadValueEvent\\_OneUnitAndOneDataPoint\\_EventCalledWithCorrectData \( double value \)](#) [inline]
- 6.82.1.9 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.OnNextReadValueEvent\\_OneUnitAndTwoDataPoints\\_EventCalledWithCorrectDataEndPoints \( double value \)](#) [inline]
- 6.82.1.10 void [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.SetTorque\\_StartedAndTorqueSet\\_TorqueSent \( double value \)](#) [inline]

6.82.1.11 void RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.SetUp( ) [inline]

6.82.1.12 void RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Start\_FirstStart\_HandShakeSent( ) [inline]

6.82.1.13 void RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Start\_StartStopStart\_StartSent( ) [inline]

6.82.1.14 void RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.Stop\_StartedAndStopped\_StopSent( )  
[inline]

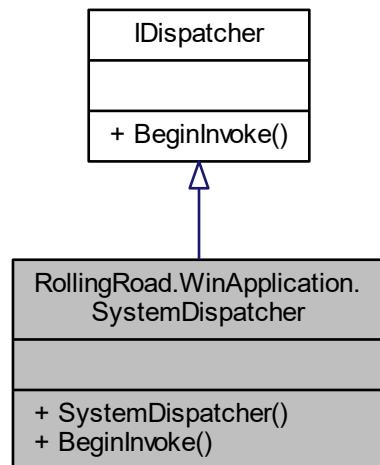
6.82.1.15 void RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests.TearDown( ) [inline]

The documentation for this class was generated from the following file:

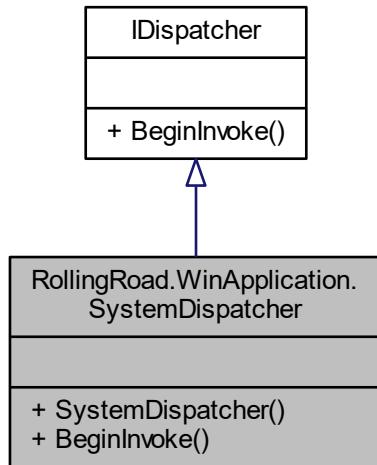
- [SP4RRInterpreterTests.cs](#)

## 6.83 RollingRoad.WinApplication.SystemDispatcher Class Reference

Inheritance diagram for RollingRoad.WinApplication.SystemDispatcher:



Collaboration diagram for RollingRoad.WinApplication.SystemDispatcher:



## Public Member Functions

- [SystemDispatcher](#) (Dispatcher *disp*)
- void [BeginInvoke](#) (DispatcherPriority *prio*, Delegate *method*)

### 6.83.1 Constructor & Destructor Documentation

6.83.1.1 `RollingRoad.WinApplication.SystemDispatcher.SystemDispatcher ( Dispatcher disp )` [inline]

### 6.83.2 Member Function Documentation

6.83.2.1 void `RollingRoad.WinApplication.SystemDispatcher.BeginInvoke ( DispatcherPriority prio, Delegate method )` [inline]

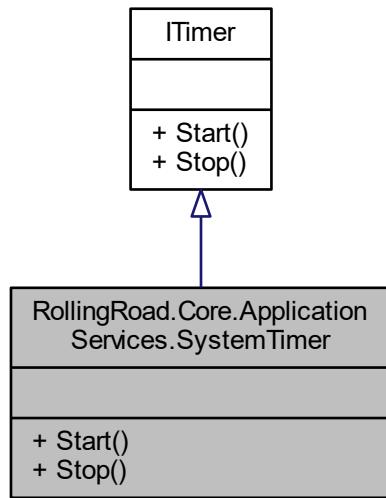
Implements [RollingRoad.WinApplication.IDispatcher](#).

The documentation for this class was generated from the following file:

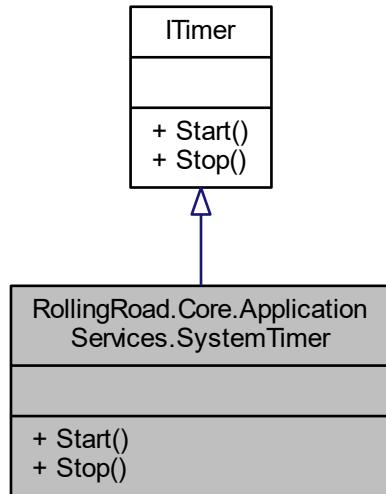
- [SystemDispatcher.cs](#)

## 6.84 RollingRoad.Core.ApplicationServices.SystemTimer Class Reference

Inheritance diagram for RollingRoad.Core.ApplicationServices.SystemTimer:



Collaboration diagram for RollingRoad.Core.ApplicationServices.SystemTimer:



### Public Member Functions

- void [Start](#) (int ms)

- Initiate timer to make a call to [Elapsed](#)*
- void [Stop \(\)](#)  
*Stop the timer if currently running*

## Events

- Action [Elapsed](#)

### 6.84.1 Member Function Documentation

#### 6.84.1.1 void RollingRoad.Core.ApplicationServices.SystemTimer.Start ( int *ms* ) [inline]

Initiate timer to make a call to [Elapsed](#)

##### Parameters

<i>ms</i>	Time to delay in milliseconds
-----------	-------------------------------

Implements [RollingRoad.Core.ApplicationServices.ITimer](#).

#### 6.84.1.2 void RollingRoad.Core.ApplicationServices.SystemTimer.Stop ( ) [inline]

Stop the timer if currently running

Implements [RollingRoad.Core.ApplicationServices.ITimer](#).

### 6.84.2 Event Documentation

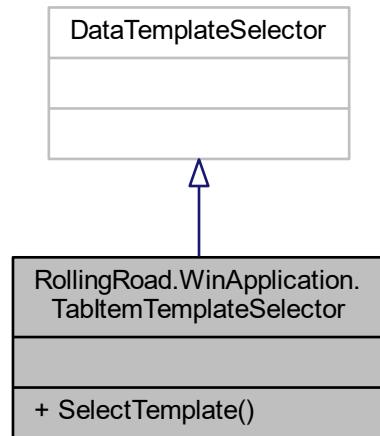
#### 6.84.2.1 Action RollingRoad.Core.ApplicationServices.SystemTimer.Elapsed

The documentation for this class was generated from the following file:

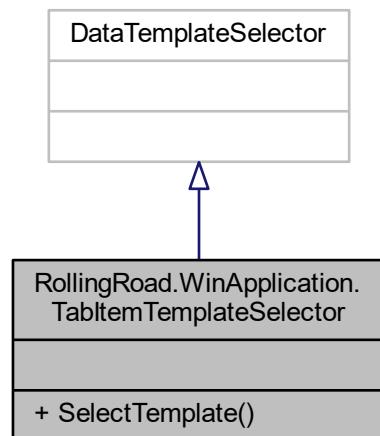
- [SystemTimer.cs](#)

## 6.85 RollingRoad.WinApplication.TabItemTemplateSelector Class Reference

Inheritance diagram for RollingRoad.WinApplication.TabItemTemplateSelector:



Collaboration diagram for RollingRoad.WinApplication.TabItemTemplateSelector:



### Public Member Functions

- override DataTemplate [SelectTemplate](#) (object item, DependencyObject container)

### 6.85.1 Member Function Documentation

6.85.1.1 `override DataTemplate RollingRoad.WinApplication.TabItemTemplateSelector.SelectTemplate ( object item, DependencyObject container ) [inline]`

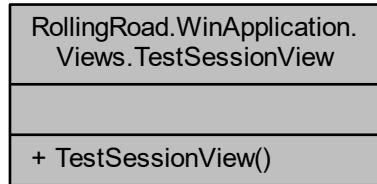
The documentation for this class was generated from the following file:

- [TabItemTemplateSelector.cs](#)

## 6.86 RollingRoad.WinApplication.Views.TestSessionView Class Reference

Interaction logic for TestSessionView.xaml

Collaboration diagram for RollingRoad.WinApplication.Views.TestSessionView:



### Public Member Functions

- [TestSessionView \(\)](#)

### 6.86.1 Detailed Description

Interaction logic for TestSessionView.xaml

### 6.86.2 Constructor & Destructor Documentation

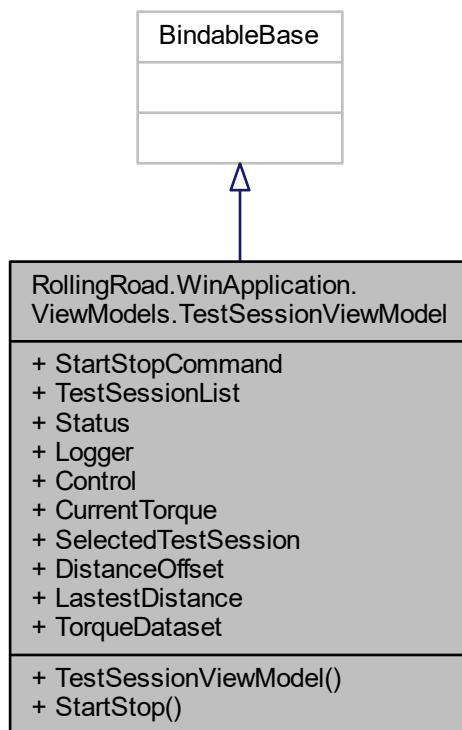
6.86.2.1 `RollingRoad.WinApplication.Views.TestSessionView.TestSessionView ( ) [inline]`

The documentation for this class was generated from the following file:

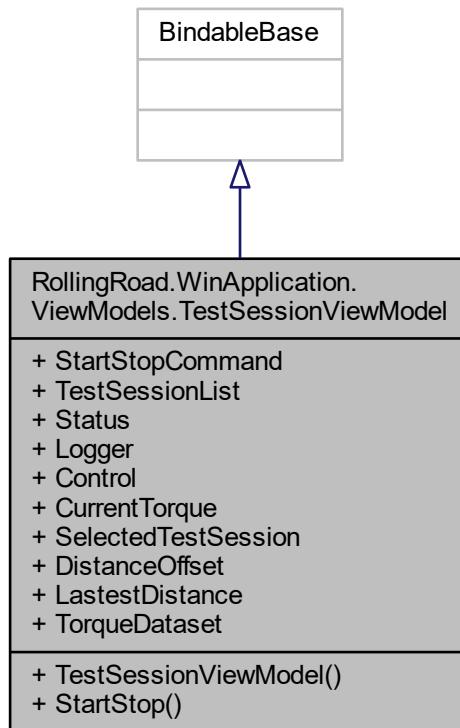
- [TestSessionView.xaml.cs](#)

## 6.87 RollingRoad.WinApplication.ViewModels.TestSessionViewModel Class Reference

Inheritance diagram for RollingRoad.WinApplication.ViewModels.TestSessionViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.TestSessionViewModel:



## Public Types

- enum `TestSessionStatus` { `TestSessionStatus.Stopped`, `TestSessionStatus.Running` }

## Public Member Functions

- `TestSessionViewModel (TorqueControlViewModel control=null)`
- `void StartStop ()`

## Properties

- `DelegateCommand StartStopCommand [get]`
- `ICollection< string > TestSessionList [get]`
- `TestSessionStatus Status [get]`
- `ILogger Logger [get, set]`
- `TorqueControlViewModel Control [get, set]`
- `double CurrentTorque [get]`
- `int SelectedTestSession [get, set]`
- `double DistanceOffset [get, set]`
- `double LastestDistance [set]`

### 6.87.1 Member Enumeration Documentation

6.87.1.1 enum RollingRoad.WinApplication.ViewModels.TestSessionViewModel.TestSessionStatus  
[strong]

Enumerator

*Stopped*

*Running*

### 6.87.2 Constructor & Destructor Documentation

6.87.2.1 RollingRoad.WinApplication.ViewModels.TestSessionViewModel.TestSessionViewModel (TorqueControlViewModel *control* = null) [inline]

### 6.87.3 Member Function Documentation

6.87.3.1 void RollingRoad.WinApplication.ViewModels.TestSessionViewModel.StartStop() [inline]

### 6.87.4 Property Documentation

6.87.4.1 TorqueControlViewModel RollingRoad.WinApplication.ViewModels.TestSessionViewModel.Control [get], [set]

6.87.4.2 double RollingRoad.WinApplication.ViewModels.TestSessionViewModel.CurrentTorque [get]

6.87.4.3 double RollingRoad.WinApplication.ViewModels.TestSessionViewModel.DistanceOffset [get], [set]

6.87.4.4 double RollingRoad.WinApplication.ViewModels.TestSessionViewModel.LastestDistance [set]

6.87.4.5 ILogger RollingRoad.WinApplication.ViewModels.TestSessionViewModel.Logger [get], [set]

6.87.4.6 int RollingRoad.WinApplication.ViewModels.TestSessionViewModel.SelectedTestSession [get], [set]

6.87.4.7 DelegateCommand RollingRoad.WinApplication.ViewModels.TestSessionViewModel.StartStopCommand [get]

6.87.4.8 TestSessionStatus RollingRoad.WinApplication.ViewModels.TestSessionViewModel.Status [get]

6.87.4.9 ICollection<string> RollingRoad.WinApplication.ViewModels.TestSessionViewModel.TestSessionList [get]

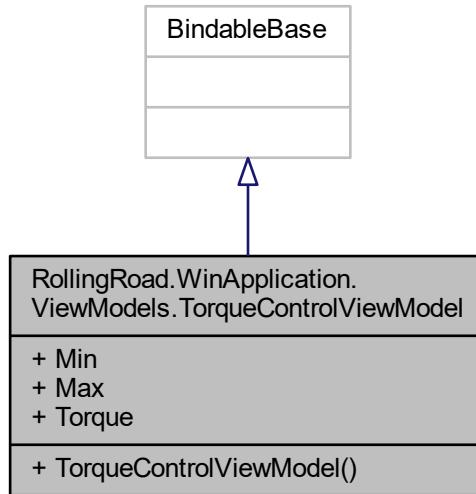
The documentation for this class was generated from the following file:

- [TestSessionViewModel.cs](#)

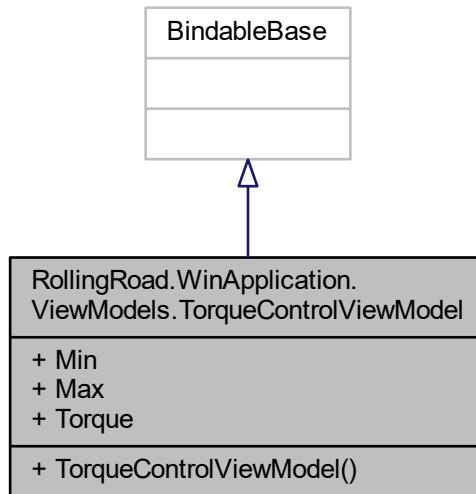
## 6.88 RollingRoad.WinApplication.ViewModels.TorqueControlViewModel Class Reference

Torque view model, uses "TorqueMin" and "TorqueMax" from DefaultSettings file to enable limits

Inheritance diagram for RollingRoad.WinApplication.ViewModels.TorqueControlViewModel:



Collaboration diagram for RollingRoad.WinApplication.ViewModels.TorqueControlViewModel:



## Public Member Functions

- [TorqueControlViewModel \(ITorqueControl control, ISettingsProvider settings=null\)](#)

## Properties

- [double Min \[get\]](#)
- [double Max \[get\]](#)
- [double Torque \[get, set\]](#)

### 6.88.1 Detailed Description

Torque view model, uses "TorqueMin" and "TorqueMax" from DefaultSettings file to enable limits

### 6.88.2 Constructor & Destructor Documentation

6.88.2.1 [RollingRoad.WinApplication.ViewModels.TorqueControlViewModel.TorqueControlViewModel \( ITorqueControl control, ISettingsProvider settings = null \) \[inline\]](#)

### 6.88.3 Property Documentation

6.88.3.1 [double RollingRoad.WinApplication.ViewModels.TorqueControlViewModel.Max \[get\]](#)

6.88.3.2 [double RollingRoad.WinApplication.ViewModels.TorqueControlViewModel.Min \[get\]](#)

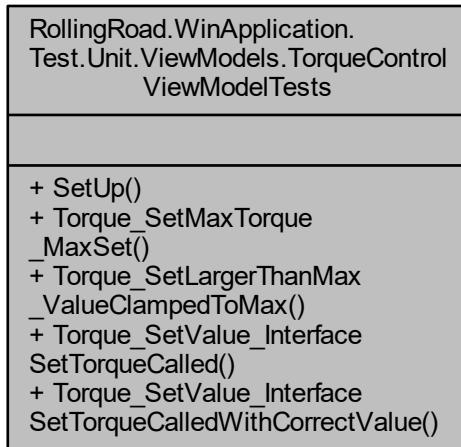
6.88.3.3 [double RollingRoad.WinApplication.ViewModels.TorqueControlViewModel.Torque \[get\], \[set\]](#)

The documentation for this class was generated from the following file:

- [TorqueControlViewModel.cs](#)

## 6.89 RollingRoad.WinApplication.Test.Unit.ViewModels.TorqueControlViewModelTests Class Reference

Collaboration diagram for RollingRoad.WinApplication.Test.Unit.ViewModels.TorqueControlViewModelTests:



### Public Member Functions

- void [SetUp \(\)](#)
- void [Torque\\_SetMaxTorque\\_MaxSet \(\)](#)
- void [Torque\\_SetLargerThanMax\\_ValueClampedToMax \(\)](#)
- void [Torque\\_SetValue\\_InterfaceSetTorqueCalled \(\)](#)
- void [Torque\\_SetValue\\_InterfaceSetTorqueCalledWithCorrectValue \(\)](#)

#### 6.89.1 Member Function Documentation

6.89.1.1 void RollingRoad.WinApplication.Test.Unit.ViewModels.TorqueControlViewModelTests.[SetUp \(\)](#) [inline]

6.89.1.2 void RollingRoad.WinApplication.Test.Unit.ViewModels.TorqueControlViewModelTests.[Torque\\_SetLargerThanMax\\_ValueClampedToMax \(\)](#) [inline]

6.89.1.3 void RollingRoad.WinApplication.Test.Unit.ViewModels.TorqueControlViewModelTests.[Torque\\_SetMaxTorque\\_MaxSet \(\)](#) [inline]

6.89.1.4 void RollingRoad.WinApplication.Test.Unit.ViewModels.TorqueControlViewModelTests.[Torque\\_SetValue\\_InterfaceSetTorqueCalled \(\)](#) [inline]

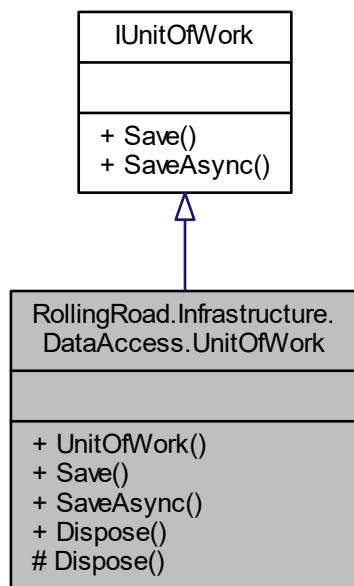
6.89.1.5 void RollingRoad.WinApplication.Test.Unit.ViewModels.TorqueControlViewModelTests.[Torque\\_SetValue\\_InterfaceSetTorqueCalledWithCorrectValue \(\)](#) [inline]

The documentation for this class was generated from the following file:

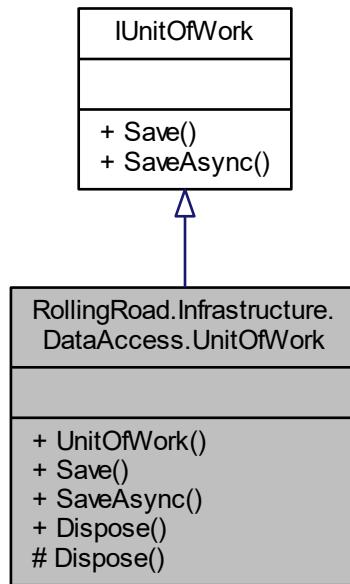
- [TorqueControlViewModelTests.cs](#)

## 6.90 RollingRoad.Infrastructure.DataAccess.UnitOfWork Class Reference

Inheritance diagram for RollingRoad.Infrastructure.DataAccess.UnitOfWork:



Collaboration diagram for RollingRoad.Infrastructure.DataAccess.UnitOfWork:



## Public Member Functions

- [UnitOfWork](#) (DbContext context)
- int [Save](#) ()
- async Task< int > [SaveAsync](#) ()
- void [Dispose](#) ()

## Protected Member Functions

- virtual void [Dispose](#) (bool disposing)

### 6.90.1 Constructor & Destructor Documentation

6.90.1.1 `RollingRoad.Infrastructure.DataAccess.UnitOfWork.UnitOfWork ( DbContext context )` [inline]

### 6.90.2 Member Function Documentation

6.90.2.1 `virtual void RollingRoad.Infrastructure.DataAccess.UnitOfWork.Dispose ( bool disposing )` [inline],  
[protected], [virtual]

6.90.2.2 `void RollingRoad.Infrastructure.DataAccess.UnitOfWork.Dispose ( )` [inline]

6.90.2.3 `int RollingRoad.Infrastructure.DataAccess.UnitOfWork.Save ( )` [inline]

Implements [RollingRoad.Core.DomainServices.IUnitOfWork](#).

6.90.2.4 `async Task<int> RollingRoad.Infrastructure.DataAccess.UnitOfWork.SaveAsync( ) [inline]`

Implements [RollingRoad.Core.DomainServices.IUnitOfWork](#).

The documentation for this class was generated from the following file:

- [UnitOfWork.cs](#)

# Chapter 7

## File Documentation

### 7.1 201604221231360\_Initial.cs File Reference

#### Classes

- class [RollingRoad.Infrastructure.DataAccess.Migrations.Initial](#)

#### Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess.Migrations](#)

### 7.2 201604221231360\_Initial.Designer.cs File Reference

#### Classes

- class [RollingRoad.Infrastructure.DataAccess.Migrations.Initial](#)

#### Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess.Migrations](#)

### 7.3 201604221324298\_DataPointIndex.cs File Reference

#### Classes

- class [RollingRoad.Infrastructure.DataAccess.Migrations.DataPointIndex](#)

#### Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess.Migrations](#)

## 7.4 201604221324298\_DataPointIndex.Designer.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.Migrations.DataPointIndex](#)

### Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess.Migrations](#)

## 7.5 AboutWindow.xaml.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Views.AboutWindow](#)  
*Interaction logic for AboutWindow.xaml*

### Namespaces

- namespace [RollingRoad.WinApplication.Views](#)

## 7.6 App.xaml.cs File Reference

### Classes

- class [RollingRoad.WinApplication.App](#)  
*Interaction logic for App.xaml*

### Namespaces

- namespace [RollingRoad.WinApplication](#)

## 7.7 ApplicationContext.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.ApplicationContext](#)

### Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)

## 7.8 AssemblyInfo.cs File Reference

### 7.9 AssemblyInfo.cs File Reference

### 7.10 AssemblyInfo.cs File Reference

### 7.11 AssemblyInfo.cs File Reference

### 7.12 AssemblyInfo.cs File Reference

### 7.13 AssemblyInfo.cs File Reference

## 7.14 CalibrateControlViewModel.cs File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.CalibrateControlViewModel](#)

### Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.15 CalibrateControlViewModelTests.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Test.Unit.ViewModels.CalibrateControlViewModelTests](#)

### Namespaces

- namespace [RollingRoad.WinApplication.Test.Unit.ViewModels](#)

## 7.16 Configuration.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.Migrations.Configuration](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess.Migrations](#)

## 7.17 CsvDataFile.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.CsvDataFile](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)

## 7.18 CsvDataInterpreterTests.cs File Reference

### Classes

- class [RollingRoad.Test.Unit.DataAccess.CsvDataInterpreterTests](#)

## Namespaces

- namespace [RollingRoad.Test.Unit.DataAccess](#)

## 7.19 CsvDataInterpreter.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.CsvDataInterpreter](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)

## 7.20 CsvDataInterpreter.cs File Reference

### Classes

- class [RollingRoad.Protocols.CsvDataInterpreter](#)

## Namespaces

- namespace [RollingRoad.Protocols](#)

## 7.21 `DataList.cs` File Reference

### Classes

- class [RollingRoad.Core.DomainModel.DataList](#)

## Namespaces

- namespace [RollingRoad.Core.DomainModel](#)

## 7.22 `DataListMap.cs` File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.Mapping.DataListMap](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess.Mapping](#)

## 7.23 `DataListTests.cs` File Reference

### Classes

- class [RollingRoad.Test.Unit.DomainModel.DataListTests](#)

## Namespaces

- namespace [RollingRoad.Test.Unit.DomainModel](#)

## 7.24 `DataListViewModel.cs` File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.DataListViewModel](#)

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.25 DataPoint.cs File Reference

### Classes

- class [RollingRoad.Core.DomainModel.DataPoint](#)

## Namespaces

- namespace [RollingRoad.Core.DomainModel](#)

## 7.26 DataPointMap.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.Mapping.DataPointMap](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess.Mapping](#)

## 7.27 DataPointTests.cs File Reference

### Classes

- class [RollingRoad.Test.Unit.DomainModel.DatapointTests](#)

## Namespaces

- namespace [RollingRoad.Test.Unit.DomainModel](#)

## 7.28 DataSet.cs File Reference

### Classes

- class [RollingRoad.Core.DomainModel.DataSet](#)

## Namespaces

- namespace [RollingRoad.Core.DomainModel](#)

## 7.29 DataSetMap.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.Mapping.DataSetMap](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess.Mapping](#)

## 7.30 DataSetsView.xaml.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Views.DataSetsView](#)

*Interaction logic for DataSetsView.xaml*

## Namespaces

- namespace [RollingRoad.WinApplication.Views](#)

## 7.31 DataSetsViewModel.cs File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.DataSetsViewModel](#)

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.32 DataSetsViewModelTests.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetsViewModelTests](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Test.Unit.ViewModels](#)

## 7.33 DatasetTests.cs File Reference

### Classes

- class [RollingRoad.Test.Unit.DomainModel.DataSetTests](#)

## Namespaces

- namespace [RollingRoad.Test.Unit.DomainModel](#)

## 7.34 DataSetViewModel.cs File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.DataSetViewModel](#)

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.35 DataSetViewModelTests.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Test.Unit.ViewModels.DataSetViewModelTests](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Test.Unit.ViewModels](#)

## 7.36 DataType.cs File Reference

### Classes

- class [RollingRoad.Core.DomainModel.DataType](#)

## Namespaces

- namespace [RollingRoad.Core.DomainModel](#)

## 7.37 DateTypeTests.cs File Reference

### Classes

- class [RollingRoad.Test.Unit.DomainModel.DateTypeTests](#)

## Namespaces

- namespace [RollingRoad.Test.Unit.DomainModel](#)

## 7.38 EntityMap.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.Mapping.EntityMap< T >](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess.Mapping](#)

## 7.39 ErrorMessageBox.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Dialogs.ErrorMessageBox](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

## 7.40 FileLogger.cs File Reference

### Classes

- class [RollingRoad.Core.ApplicationServices.FileLogger](#)

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.41 ICalibrateControl.cs File Reference

### Classes

- interface [RollingRoad.Core.ApplicationServices.ICalibrateControl](#)

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.42 IDatasetDataFile.cs File Reference

### Classes

- interface [RollingRoad.Core.ApplicationServices.IDatasetDataFile](#)

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.43 IDispatcher.cs File Reference

### Classes

- interface [RollingRoad.WinApplication.IDispatcher](#)

## Namespaces

- namespace [RollingRoad.WinApplication](#)

## 7.44 IEntity.cs File Reference

### Classes

- interface [RollingRoad.Core.DomainModel.IEntity](#)

## Namespaces

- namespace [RollingRoad.Core.DomainModel](#)

# 7.45 IErrorMessageBox.cs File Reference

## Classes

- interface [RollingRoad.WinApplication.Dialogs.IErrorMessageBox](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

# 7.46 ILiveDataSource.cs File Reference

## Classes

- class [RollingRoad.Core.ApplicationServices.LiveDataPointsEventArgs](#)
- interface [RollingRoad.Core.ApplicationServices.ILiveDataSource](#)

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## Enumerations

- enum [RollingRoad.Core.ApplicationServices.LiveDataSourceStatus](#) { [RollingRoad.Core.ApplicationServices.LiveDataSourceStatus.Stopped](#), [RollingRoad.Core.ApplicationServices.LiveDataSourceStatus.Running](#), [RollingRoad.Core.ApplicationServices.LiveDataSourceStatus.Disconnected](#) }

## Functions

- delegate void [RollingRoad.Core.ApplicationServices.OnStatusUpdate](#) (object sender, [LiveDataSourceStatus](#) status)

# 7.47 ILogger.cs File Reference

## Classes

- interface [RollingRoad.Core.ApplicationServices.ILogger](#)

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.48 IMessagesBox.cs File Reference

### Classes

- interface [RollingRoad.WinApplication.Dialogs.IMessageBox](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

## 7.49 IMotorControl.cs File Reference

### Classes

- interface [RollingRoad.Core.ApplicationServices.ILogger](#)

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.50 IOpenFileDialog.cs File Reference

### Classes

- interface [RollingRoad.WinApplication.Dialogs.IOpenFileDialog](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

## 7.51 IPidControl.cs File Reference

### Classes

- interface [RollingRoad.Core.ApplicationServices.IPidControl](#)

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.52 IRepository.cs File Reference

### Classes

- interface [RollingRoad.Core.DomainServices.IRepository< T >](#)

## Namespaces

- namespace [RollingRoad.Core.DomainServices](#)

## 7.53 ISaveFileDialog.cs File Reference

### Classes

- interface [RollingRoad.WinApplication.Dialogs.ISaveFileDialog](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

## 7.54 ISelectSourceDialog.cs File Reference

### Classes

- interface [RollingRoad.WinApplication.Dialogs.ISelectSourceDialog](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

## 7.55 ISettingsProvider.cs File Reference

### Classes

- interface [RollingRoad.WinApplication.ISettingsProvider](#)

## Namespaces

- namespace [RollingRoad.WinApplication](#)

## 7.56 ITimer.cs File Reference

### Classes

- interface [RollingRoad.Core.ApplicationServices.ITimer](#)

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.57 ITorqueControl.cs File Reference

### Classes

- interface [RollingRoad.Core.ApplicationServices.ITorqueControl](#)  
*Allows the control of Rolling Road*

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.58 IUnitOfWork.cs File Reference

### Classes

- interface [RollingRoad.Core.DomainServices.IUnitOfWork](#)

## Namespaces

- namespace [RollingRoad.Core.DomainServices](#)

## 7.59 LineChart.xaml.cs File Reference

### Classes

- class [RollingRoad.WinApplication.LineChart](#)  
*Interaction logic for LineChart.xaml*

## Namespaces

- namespace [RollingRoad.WinApplication](#)

## Typedefs

- using [Color](#) = System.Windows.Media.Color
- using [ColorConverter](#) = System.Windows.Media.ColorConverter

### 7.59.1 Typedef Documentation

#### 7.59.1.1 using Color = System.Windows.Media.Color

#### 7.59.1.2 using ColorConverter = System.Windows.Media.ColorConverter

## 7.60 LiveDataEmulator.cs File Reference

## Classes

- class [RollingRoad.Infrastructure.DataAccess.LiveDataEmulator](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)

## 7.61 LiveDataEmulatorTests.cs File Reference

## Classes

- class [RollingRoad.Test.Unit.LiveDataEmulatorTests](#)

## Namespaces

- namespace [RollingRoad.Test.Unit](#)

## 7.62 LiveDataSourceView.xaml.cs File Reference

## Classes

- class [RollingRoad.WinApplication.Views.LiveDataSourceView](#)  
*Interaction logic for LiveDataSourceView.xaml*

## Namespaces

- namespace [RollingRoad.WinApplication.Views](#)

## 7.63 LiveDataSourceViewModel.cs File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.LiveDataSourceViewModel](#)

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.64 LiveDataSourceViewModelTests.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Test.Unit.ViewModels.LiveDataSourceViewModelTests](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Test.Unit.ViewModels](#)

## 7.65 Logger.cs File Reference

### Classes

- class [RollingRoad.Core.ApplicationServices.Logger](#)  
*Invokes OnLog every time there's a log message, does not store log.*

## Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.66 LoggerTests.cs File Reference

### Classes

- class [RollingRoad.Test.Unit.ApplicationServices.LoggerTests](#)

## Namespaces

- namespace [RollingRoad.Test.Unit.ApplicationServices](#)

## 7.67 LoggerView.xaml.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Views.LoggerView](#)  
*Interaction logic for LoggerView.xaml*

## Namespaces

- namespace [RollingRoad.WinApplication.Views](#)

## 7.68 LoggerViewModel.cs File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.LoggerViewModel](#)

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.69 LoggerViewModelTests.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Test.Unit.ViewModels.LoggerViewModelTests](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Test.Unit.ViewModels](#)

## 7.70 MainWindow.xaml.cs File Reference

### Classes

- class [RollingRoad.WinApplication.MainWindow](#)

## Namespaces

- namespace [RollingRoad.WinApplication](#)

## 7.71 MainWindowViewModel.cs File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.MainWindowViewModel](#)

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.72 MathExtensions.cs File Reference

### Classes

- class [RollingRoad.WinApplication.MathExtensions](#)

## Namespaces

- namespace [RollingRoad.WinApplication](#)

## 7.73 MemoryRepository.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.MemoryRepository< T >](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)

## 7.74 MemoryRepositoryTests.cs File Reference

### Classes

- class [RollingRoad.Test.Unit.DataAccess.MemoryRepositoryTestClass](#)
- class [RollingRoad.Test.Unit.DataAccess.MemoryRepositoryTests](#)

## Namespaces

- namespace [RollingRoad.Test.Unit.DataAccess](#)

# 7.75 MessageBox.cs File Reference

## Classes

- class [RollingRoad.WinApplication.Dialogs.MessageBox](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

# 7.76 MotorControlViewModel.cs File Reference

## Classes

- class [RollingRoad.WinApplication.ViewModels.MotorControlViewModel](#)

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

# 7.77 MotorControlViewModelTests.cs File Reference

## Classes

- class [RollingRoad.WinApplication.Test.Unit.ViewModels.MotorControlViewModelTests](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Test.Unit.ViewModels](#)

# 7.78 OpenFileDialog.cs File Reference

## Classes

- class [RollingRoad.WinApplication.Dialogs.OpenFileDialog](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

## 7.79 PidControlView.xaml.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Views.PidControlView](#)  
*Interaction logic for PidControlView.xaml*

## Namespaces

- namespace [RollingRoad.WinApplication.Views](#)

## 7.80 PidControlViewModel.cs File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.PidControlViewModel](#)

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.81 PidControlViewModelTests.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Test.Unit.ViewModels.PidControlViewModelTests](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Test.Unit.ViewModels](#)

## 7.82 Repository.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.Repository< T >](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)

## 7.83 SaveFileDialog.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Dialogs.SaveFileDialog](#)

### Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

## 7.84 SelectSourceDialog.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Dialogs.SelectSourceDialog](#)

### Namespaces

- namespace [RollingRoad.WinApplication.Dialogs](#)

### TypeDefs

- using [MessageBox](#) = System.Windows.MessageBox

### 7.84.1 TypeDef Documentation

#### 7.84.1.1 using MessageBox = System.Windows.MessageBox

## 7.85 SelectSourceWindow.xaml.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Views.SelectSourceWindow](#)  
*Interaction logic for SelectSourceDialog.xaml*

### Namespaces

- namespace [RollingRoad.WinApplication.Views](#)

## 7.86 SerialConnection.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.SerialConnection](#)

### Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)

## 7.87 SettingsFile.cs File Reference

### Classes

- class **RollingRoad.WinApplication.Settings**
- class [RollingRoad.WinApplication.SettingsFile](#)  
*Settings file originally used in the game "Norse"*

### Namespaces

- namespace [RollingRoad.WinApplication](#)

## 7.88 SP4MCInterpreter.cs File Reference

### Classes

- class [RollingRoad.Protocols.SP4MCInterpreter](#)

### Namespaces

- namespace [RollingRoad.Protocols](#)

## 7.89 SP4MCInterpreter.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.SP4MCInterpreter](#)

### Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)

## 7.90 SP4MCInterpreterTests.cs File Reference

### Classes

- class [RollingRoad.Test.Unit.DataAccess.SP4MCInterpreterTests](#)

### Namespaces

- namespace [RollingRoad.Test.Unit.DataAccess](#)

## 7.91 SP4RRInterpreter.cs File Reference

### Classes

- class [RollingRoad.Protocols.SP4RRInterpreter](#)

### Namespaces

- namespace [RollingRoad.Protocols](#)

## 7.92 SP4RRInterpreter.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.SP4RRInterpreter](#)

### Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)

## 7.93 SP4RRInterpreterTests.cs File Reference

### Classes

- class [RollingRoad.Test.Unit.DataAccess.SP4RRInterpreterTests](#)

### Namespaces

- namespace [RollingRoad.Test.Unit.DataAccess](#)

## 7.94 SystemDispatcher.cs File Reference

### Classes

- class [RollingRoad.WinApplication.SystemDispatcher](#)

### Namespaces

- namespace [RollingRoad.WinApplication](#)

## 7.95 SystemTimer.cs File Reference

### Classes

- class [RollingRoad.Core.ApplicationServices.SystemTimer](#)

### Namespaces

- namespace [RollingRoad.Core.ApplicationServices](#)

## 7.96 TabItemTemplateSelector.cs File Reference

### Classes

- class [RollingRoad.WinApplication.TabItemTemplateSelector](#)

### Namespaces

- namespace [RollingRoad.WinApplication](#)

### Typedefs

- using [ViewModelTemplateTuple](#) = System.Tuple< System.Type, string >

### 7.96.1 Typedef Documentation

7.96.1.1 using [ViewModelTemplateTuple](#) = System.Tuple<System.Type, string>

## 7.97 TestSessionView.xaml.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Views.TestSessionView](#)  
*Interaction logic for TestSessionView.xaml*

## Namespaces

- namespace [RollingRoad.WinApplication.Views](#)

## 7.98 TestSessionViewModel.cs File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.TestSessionViewModel](#)

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.99 TorqueControlViewModel.cs File Reference

### Classes

- class [RollingRoad.WinApplication.ViewModels.TorqueControlViewModel](#)

*Torque view model, uses "TorqueMin" and "TorqueMax" from DefaultSettings file to enable limits*

## Namespaces

- namespace [RollingRoad.WinApplication.ViewModels](#)

## 7.100 TorqueControlViewModelTests.cs File Reference

### Classes

- class [RollingRoad.WinApplication.Test.Unit.ViewModels.TorqueControlViewModelTests](#)

## Namespaces

- namespace [RollingRoad.WinApplication.Test.Unit.ViewModels](#)

## 7.101 UnitOfWork.cs File Reference

### Classes

- class [RollingRoad.Infrastructure.DataAccess.UnitOfWork](#)

## Namespaces

- namespace [RollingRoad.Infrastructure.DataAccess](#)



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