

XL-Launcher

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Chapter 1

XL-Launcher

1.1 Introduction

XL-Launcher is a front end to Excel.

Author

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Chapter 2

Namespace Index

2.1 Package List

Here are the packages with brief descriptions (if available):

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Chapter 3

Class Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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Serialization.XL_Launcher.Factory	48
Interface.FormMain	49
Interface.FormVariableEdit	50
ICloneable	61
Environments.XL_Launcher.CheckBox	20
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Chapter 4

Class Index

4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Utilities.AuthenticationParameters	19
Environments.XL_Launcher.CheckBox	20
Environments.XL_Launcher.ComboBox	25
Environments.XL_Launcher.Component (An Addin or other object to be loaded into Excel) . .	28
Environments.XL_Launcher.DateTimePicker	32
Authentication.XL_Launcher.Domain (Encapsulate the information relating to the domain to which the current user belongs. Used for authentication)	35
Environments.XL_Launcher.Environment (A collection of Framework objects comprising all of the resources to be loaded into a given instance of Excel)	38
Environments.XL_Launcher.EnvironmentList (A collection of Environment objects. In practice the application uses two EnvironmentList objects, one for Pre Configured Environments and the other for User Configured Environments . Each of these is displayed in a ListBox object in the main UI)	42
Environments.XL_Launcher.EnvironmentVariable (An Environment Variable which is required by a given Framework and which is to be set by XL-Launcher within the subprocess in which Excel is spawned)	46
Serialization.XL_Launcher.Factory (A Singleton utility for converting a type string into an instance of the corresponding object)	48
Interface.FormMain	49
Interface.FormVariableEdit	50
Environments.XL_Launcher.Framework (A collection of Components (Addins) which together comprise an Excel VBA application)	50
Environments.XL_Launcher.GlobalAddin (An Addin which is specific to an overall Excel session and not to any particular Excel VBA application, e.g. Reuters, Bloomberg, Oracle)	54
Environments.XL_Launcher.GroupBox (Encapsulate a collection of Startup Parameter objects which are displayed together in the XL-Launcher UI within a single GroupBox control)	57
ICloneable	61
Serialization.XL_Launcher.ISerializable (Abstract interface for any object capable of being serialized)	61

ISerializable	62
Serialization.XL_Launcher.ISerializer (Abstract interface for any object capable of reading or writing a stream)	63
Environments.XL_Launcher.KeyValuePair	65
Authentication.XL_Launcher.Machine (Encapsulate the information relating to the current machine on which this instance of XL-Launcher is running. Used for authentication)	68
Environments.XL_Launcher.Message (Generate the XML for the session file)	70
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Utilities.XL_Launcher.Paths (Object to encapsulate the paths.xml file which is delivered by ClickOnce and is used to specify the location of the Pre Configured directory)	79
Environments.XL_Launcher.StartupParameter (A Key-Value pair. The StartupParameter encapsulates some kind of control (e.g. TextBox , DatePicker) which is displayed in the UI in order to prompt the user for the corresponding data. Once collected the data is transmitted to Excel in the session file to be consumed by Launcher.xla)	81
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5.1 File List

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XmlWriter.vb	111

Chapter 6

Namespace Documentation

6.1 Package Authentication

Packages

- package [XL_Launcher](#)

6.2 Package Authentication.XL_Launcher

Classes

- class [Authentication](#)
Encapsulate the functionality to serialize a stream of authentication data and the logic to determine whether the current user satisfies the given criteria for accessing the corresponding Environment.
- class [Domain](#)
Encapsulate the information relating to the domain to which the current user belongs. Used for authentication.
- class [Machine](#)
Encapsulate the information relating to the current machine on which this instance of XL-Launcher is running. Used for authentication.
- class [User](#)
Encapsulate the identity of the user under which the current instance of XL-Launcher is running. Used for authentication.

6.3 Package Environments

Packages

- package [XL_Launcher](#)

6.4 Package Environments.XL_Launcher

Classes

- class [Component](#)
An Addin or other object to be loaded into Excel.
- class [Environment](#)
A collection of [Framework](#) objects comprising all of the resources to be loaded into a given instance of Excel.
- class [EnvironmentList](#)
A collection of [Environment](#) objects. In practice the application uses two [EnvironmentList](#) objects, one for Pre Configured [Environments](#) and the other for User Configured [Environments](#). Each of these is displayed in a [ListBox](#) object in the main UI.
- class [EnvironmentVariable](#)
An [Environment](#) Variable which is required by a given [Framework](#) and which is to be set by XL-Launcher within the subprocess in which Excel is spawned.
- class [Framework](#)
A collection of Components (Addins) which together comprise an Excel VBA application.
- class [GlobalAddin](#)
An Addin which is specific to an overall Excel session and not to any particular Excel VBA application, e.g. Reuters, Bloomberg, Oracle.
- class [GroupBox](#)
Encapsulate a collection of Startup Parameter objects which are displayed together in the XL-Launcher UI within a single [GroupBox](#) control.
- class [Message](#)
Generate the XML for the session file.
- class [MessageFramework](#)
Take a [Framework](#) object and generate the relevant XML for the session file.
- class [MessageStartupParameter](#)
Take a Startup Parameter object and generate the relevant XML for the session file.
- interface [StartupParameter](#)
A Key-Value pair. The [StartupParameter](#) encapsulates some kind of control (e.g. [TextBox](#), [DatePicker](#)) which is displayed in the UI in order to prompt the user for the corresponding data. Once collected the data is transmitted to Excel in the session file to be consumed by Launcher.xla.
- class [KeyValuePair](#)
- class [CheckBox](#)
- class [TextBox](#)
- class [ComboBox](#)
- class [DateTimePicker](#)

6.5 Package Interface

Classes

- class [FormMain](#)
- class [FormVariableEdit](#)

6.6 Package Serialization

Packages

- package [XL_Launcher](#)

6.7 Package Serialization.XL_Launcher

Classes

- class [Factory](#)
A Singleton utility for converting a type string into an instance of the corresponding object.
- interface [ISerializable](#)
Abstract interface for any object capable of being serialized.
- interface [ISerializer](#)
Abstract interface for any object capable of reading or writing a stream.
- class [XmlReader](#)
A concrete instance of an [ISerializer](#) for loading an XML stream.
- class [XmlWriter](#)
A concrete instance of an [ISerializer](#) for generating an XML stream.

Functions

- object [loadObject](#) (string xmlFile, string nodeName)
A collection of utilities relating to [Serialization](#).
- object [loadObject](#) (string xmlFile, string rootNode, string nodeName)
- void [saveObject](#) (string xmlFile, object o, string nodeName)

6.8 Package Utilities

Packages

- package [XL_Launcher](#)

Classes

- struct [AuthenticationParameters](#)

Functions

- long [GetCurrentProcessId](#) ()
- string [deriveDefaultExcelPath](#) ()
- [AuthenticationParameters](#) [deriveAuthenticationParameters](#) ()

Variables

- const string [EXCEL_10_PATH](#) = "C:\Program Files\Microsoft Office\OFFICE10\EXCEL.EXE"
A collection of generic utility functions required by the XL-Launcher application.
- const string [EXCEL_11_PATH](#) = "C:\Program Files\Microsoft Office\OFFICE11\EXCEL.EXE"
- const string [EXCEL_12_PATH](#) = "C:\Program Files\Microsoft Office\OFFICE12\EXCEL.EXE"
- const int [THIS_VERSION](#) = 0

6.8.1 Function Documentation

6.8.1.1 long Utilities.GetCurrentProcessId ()

Is imported from extern library: kernel32

6.9 Package Utilities.XL_Launcher

Classes

- class [Paths](#)

Object to encapsulate the paths.xml file which is delivered by ClickOnce and is used to specify the location of the Pre Configured directory.

Functions

- void **displayError** (string errorMessage, MsgBoxStyle message-BoxStyle=MsgBoxStyle.OkOnly+MsgBoxStyle.Exclamation)
- void **displayError** (string errorMessage, Exception ex, MsgBoxStyle message-BoxStyle=MsgBoxStyle.OkOnly+MsgBoxStyle.Exclamation)

Variables

- const string **INFO_MESSAGE** = "XL-Launcher"
Central processing to be used for all run time errors which are thrown by the application.
- const string **ERROR_MESSAGE** = "XL-Launcher Error"

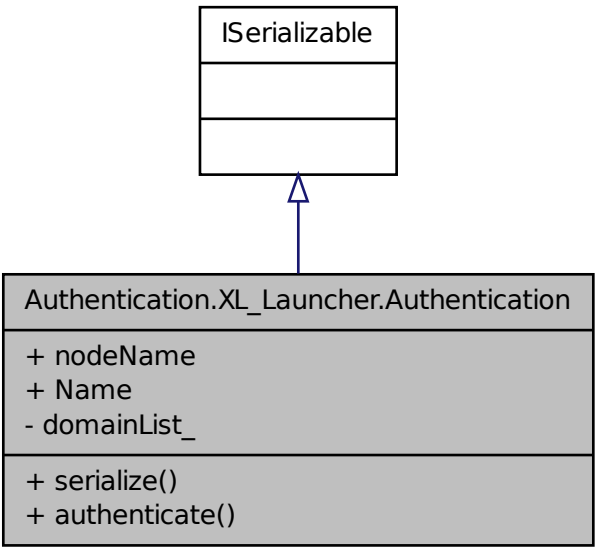
Chapter 7

Class Documentation

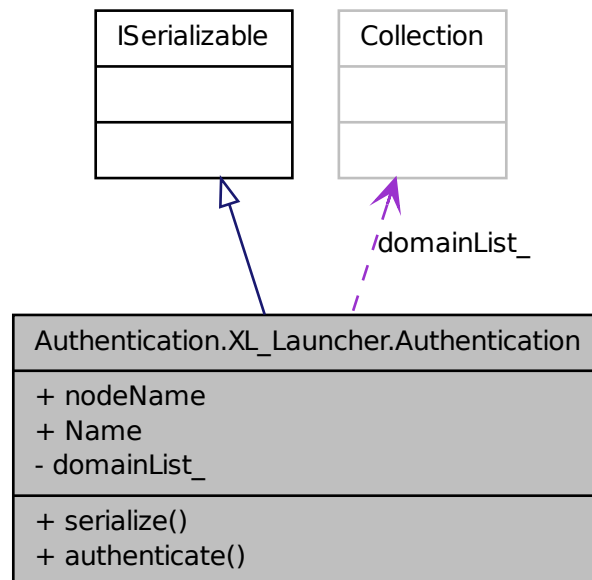
7.1 Authentication.XL_Launcher.Authentication Class Reference

Encapsulate the functionality to serialize a stream of authentication data and the logic to determine whether the current user satisfies the given criteria for accessing the corresponding Environment.

Inheritance diagram for Authentication.XL_Launcher.Authentication:



Collaboration diagram for Authentication.XL_Launcher.Authentication:



Public Member Functions

- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- bool **authenticate** ()

Properties

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

7.1.1 Detailed Description

Encapsulate the functionality to serialize a stream of authentication data and the logic to determine whether the current user satisfies the given criteria for accessing the corresponding Environment.

7.1.2 Member Function Documentation

- 7.1.2.1** void `Authentication.XL_Launcher.Authentication.serialize` (ref ISerializer *serializer*, int *versionNumber*)

Implements ISerializable.serialize

7.1.3 Property Documentation

7.1.3.1 string Authentication.XL_Launcher.Authentication.Name [get, set]

Implements ISerializable.Name

7.1.3.2 string Authentication.XL_Launcher.Authentication.nodeName [get]

properties Implements ISerializable.nodeName

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

- [Authentication.vb](#)

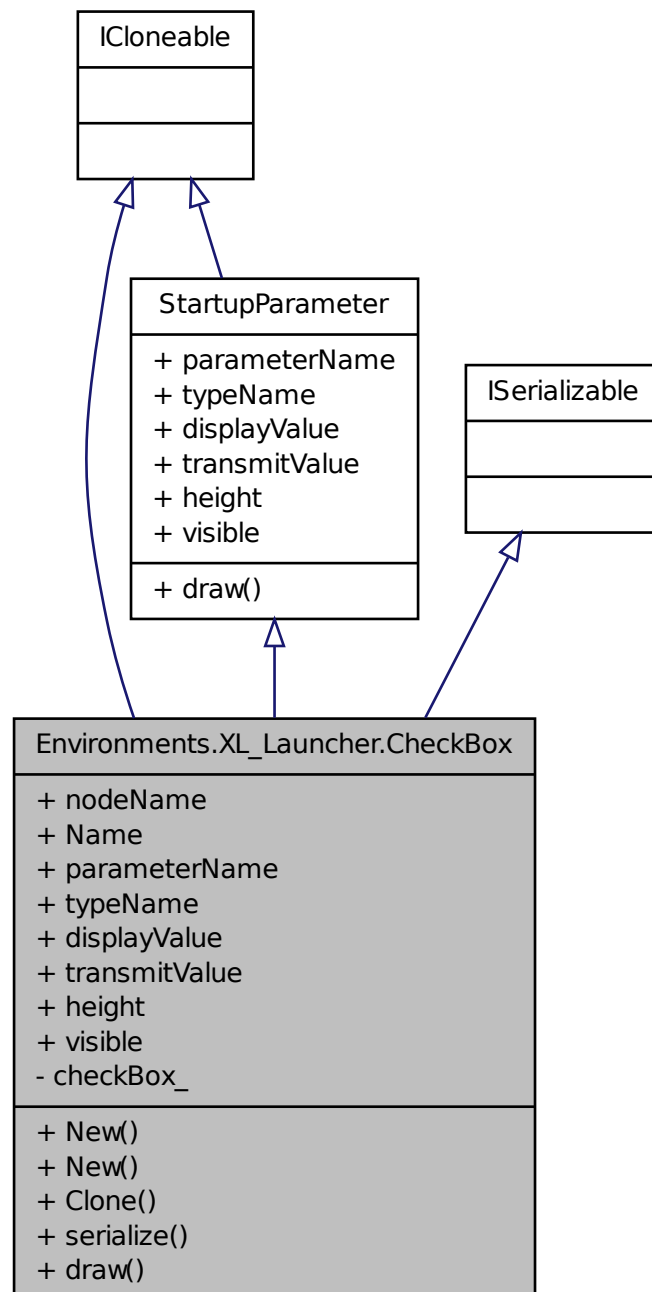
7.2 Utilities.AuthenticationParameters Struct Reference

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

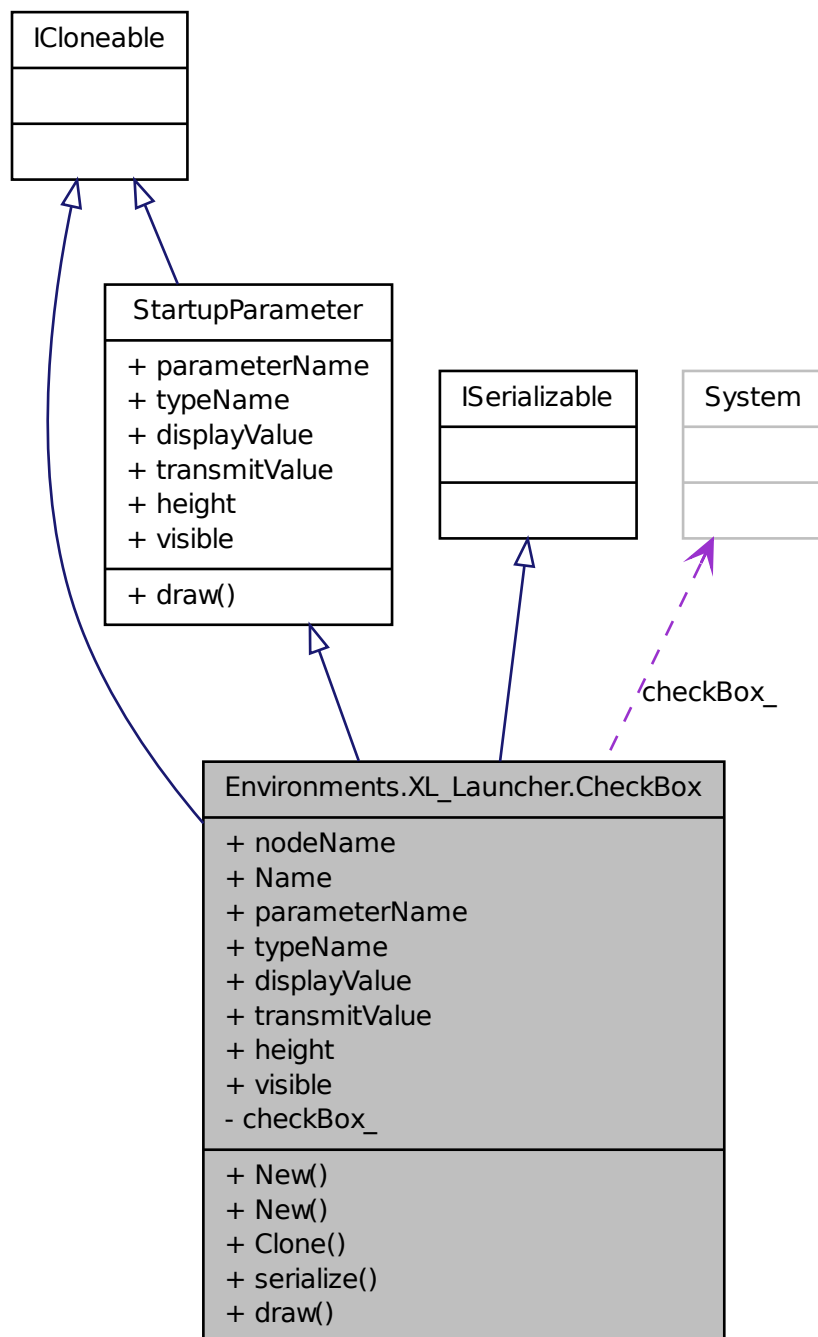
- [Utilities.vb](#)

7.3 Environments.XL_Launcher.CheckBox Class Reference

Inheritance diagram for Environments.XL_Launcher.CheckBox:



Collaboration diagram for Environments.XL_Launcher.CheckBox:



Public Member Functions

- void [New](#) ()
- void [New](#) (string text, bool checked, bool enabled)
- object [Clone](#) ()
- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- void [draw](#) (ref System.Windows.Forms.Control.ControlCollection c, int y)

Properties

- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string [parameterName](#) [get]
- string [typeName](#) [get]
- object [displayValue](#) [get, set]
- object [transmitValue](#) [get]
- int [height](#) [get]
- bool [visible](#) [get]

7.3.1 Member Function Documentation

7.3.1.1 object Environments.XL_Launcher.CheckBox.Clone ()

[ICloneable Interface](#) Implements [ICloneable.Clone](#)

7.3.1.2 void Environments.XL_Launcher.CheckBox.draw (ref System.Windows.Forms.Control.ControlCollection c, int y)

[StartupParameter Interface](#) Implements [StartupParameter.draw](#)

Implements [Environments.XL_Launcher.StartupParameter](#).

7.3.1.3 void Environments.XL_Launcher.CheckBox.New ()

Initialization

7.3.1.4 void Environments.XL_Launcher.CheckBox.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements [ISerializable.serialize](#)

7.3.2 Property Documentation

7.3.2.1 object Environments.XL_Launcher.CheckBox.displayValue [get, set]

Implements [StartupParameter.displayValue](#)

Implements [Environments.XL_Launcher.StartupParameter](#).

7.3.2.2 int Environments.XL_Launcher.CheckBox.height [get]

Implements StartupParameter.height

Implements [Environments.XL_Launcher.StartupParameter](#).

7.3.2.3 string Environments.XL_Launcher.CheckBox.Name [get, set]

Implements ISerializable.Name

7.3.2.4 string Environments.XL_Launcher.CheckBox.nodeName [get]

Properties Implements ISerializable.nodeName

7.3.2.5 string Environments.XL_Launcher.CheckBox.parameterName [get]

Implements StartupParameter.parameterName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.3.2.6 object Environments.XL_Launcher.CheckBox.transmitValue [get]

Implements StartupParameter.transmitValue

Implements [Environments.XL_Launcher.StartupParameter](#).

7.3.2.7 string Environments.XL_Launcher.CheckBox.typeName [get]

Implements StartupParameter.typeName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.3.2.8 bool Environments.XL_Launcher.CheckBox.visible [get]

Implements StartupParameter.visible

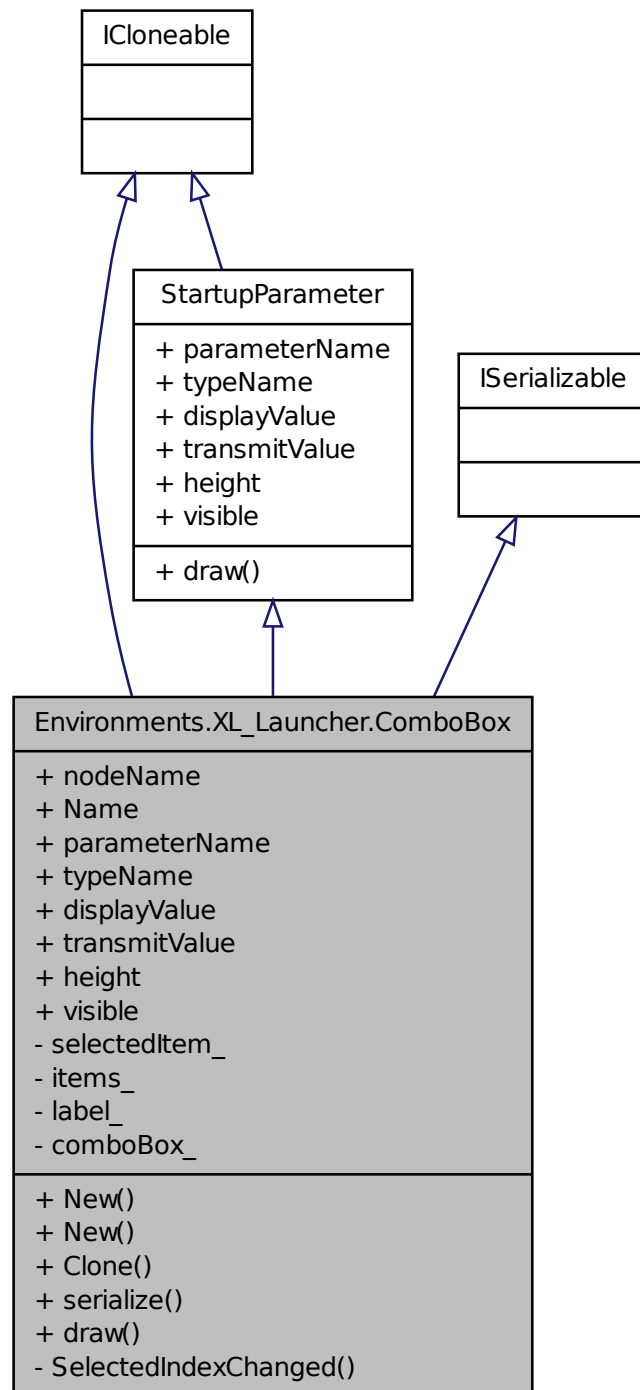
Implements [Environments.XL_Launcher.StartupParameter](#).

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

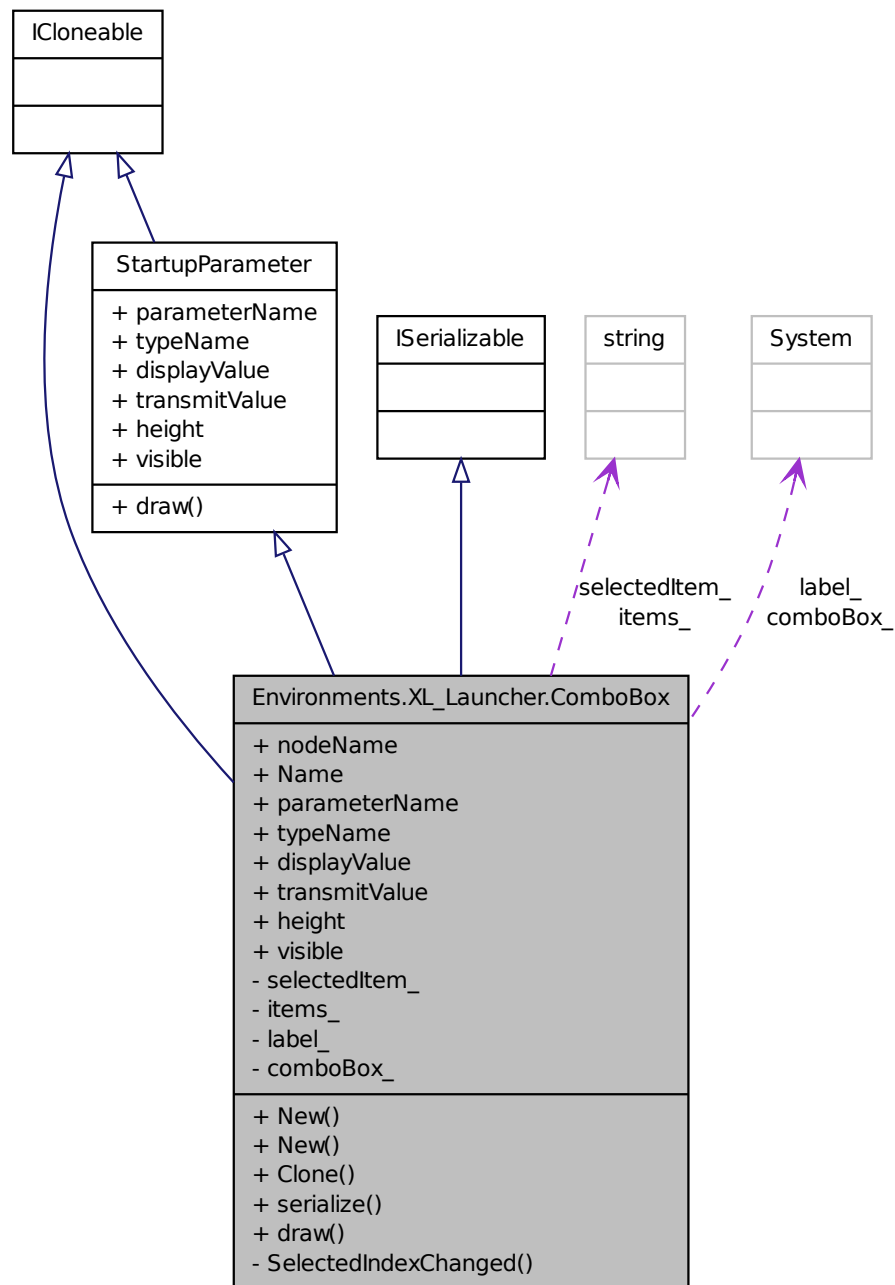
- [StartupParameter.vb](#)

7.4 Environments.XL_Launcher.ComboBox Class Reference

Inheritance diagram for Environments.XL_Launcher.ComboBox:



Collaboration diagram for Environments.XL_Launcher.ComboBox:



Public Member Functions

- void [New](#) ()

- void **New** (string label, string selectedItem, string transmitValue, bool enabled, string[] items)
- object **Clone** ()
- void **serialize** (ref ISerializer serializer, int versionNumber)
- void **draw** (ref System.Windows.Forms.Control.ControlCollection c, int y)

Properties

- string **nodeName** [get]
- string **Name** [get, set]
- string **parameterName** [get]
- string **typeName** [get]
- object **displayValue** [get, set]
- object **transmitValue** [get]
- int **height** [get]
- bool **visible** [get]

7.4.1 Member Function Documentation

7.4.1.1 object Environments.XL_Launcher.ComboBox.Clone ()

[ICloneable Interface](#) Implements [ICloneable.Clone](#)

7.4.1.2 void Environments.XL_Launcher.ComboBox.draw (ref System.Windows.Forms.Control.ControlCollection c, int y)

[StartupParameter Interface](#) Implements [StartupParameter.draw](#)

Implements [Environments.XL_Launcher.StartupParameter](#).

7.4.1.3 void Environments.XL_Launcher.ComboBox.New ()

Initialization

7.4.1.4 void Environments.XL_Launcher.ComboBox.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements [ISerializable.serialize](#)

7.4.2 Property Documentation

7.4.2.1 object Environments.XL_Launcher.ComboBox.displayValue [get, set]

Implements [StartupParameter.displayValue](#)

Implements [Environments.XL_Launcher.StartupParameter](#).

7.4.2.2 int Environments.XL_Launcher.ComboBox.height [get]

Implements StartupParameter.height

Implements [Environments.XL_Launcher.StartupParameter](#).

7.4.2.3 string Environments.XL_Launcher.ComboBox.Name [get, set]

Implements ISerializable.Name

7.4.2.4 string Environments.XL_Launcher.ComboBox.nodeName [get]

Properties Implements ISerializable.nodeName

7.4.2.5 string Environments.XL_Launcher.ComboBox.parameterName [get]

Implements StartupParameter.parameterName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.4.2.6 object Environments.XL_Launcher.ComboBox.transmitValue [get]

Implements StartupParameter.transmitValue

Implements [Environments.XL_Launcher.StartupParameter](#).

7.4.2.7 string Environments.XL_Launcher.ComboBox.typeName [get]

Implements StartupParameter.typeName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.4.2.8 bool Environments.XL_Launcher.ComboBox.visible [get]

Implements StartupParameter.visible

Implements [Environments.XL_Launcher.StartupParameter](#).

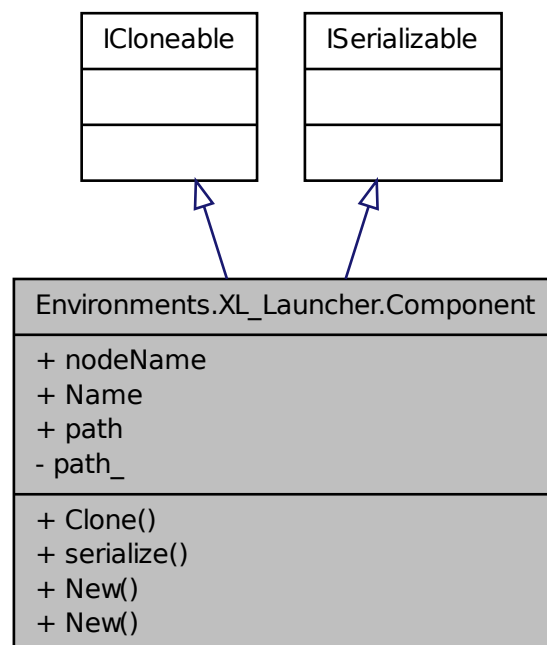
The documentation for this class was generated from the following file:

- [StartupParameter.vb](#)

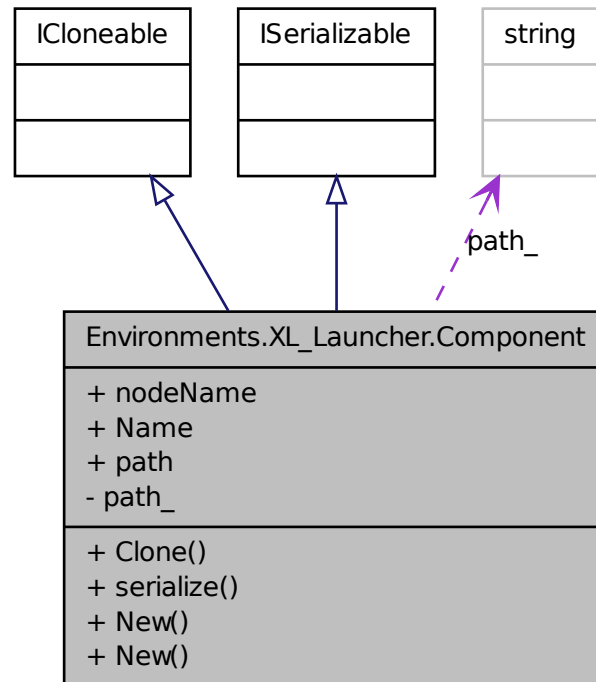
7.5 Environments.XL_Launcher.Component Class Reference

An Addin or other object to be loaded into Excel.

Inheritance diagram for Environments.XL_Launcher.Component:



Collaboration diagram for Environments.XL_Launcher.Component:



Public Member Functions

- object [Clone](#) ()
- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- void [New](#) (string path)
- void [New](#) ()

Properties

- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string [path](#) [get, set]

7.5.1 Detailed Description

An Addin or other object to be loaded into Excel.

7.5.2 Member Function Documentation

7.5.2.1 object Environments.XL_Launcher.Component.Clone ()

[ICloneable Interface](#) Implements ICloneable.Clone

7.5.2.2 void Environments.XL_Launcher.Component.New (string *path*)

Initialization

7.5.2.3 void Environments.XL_Launcher.Component.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable interface Implements ISerializable.serialize

7.5.3 Property Documentation

7.5.3.1 string Environments.XL_Launcher.Component.Name [get, set]

Implements ISerializable.Name

7.5.3.2 string Environments.XL_Launcher.Component.nodeName [get]

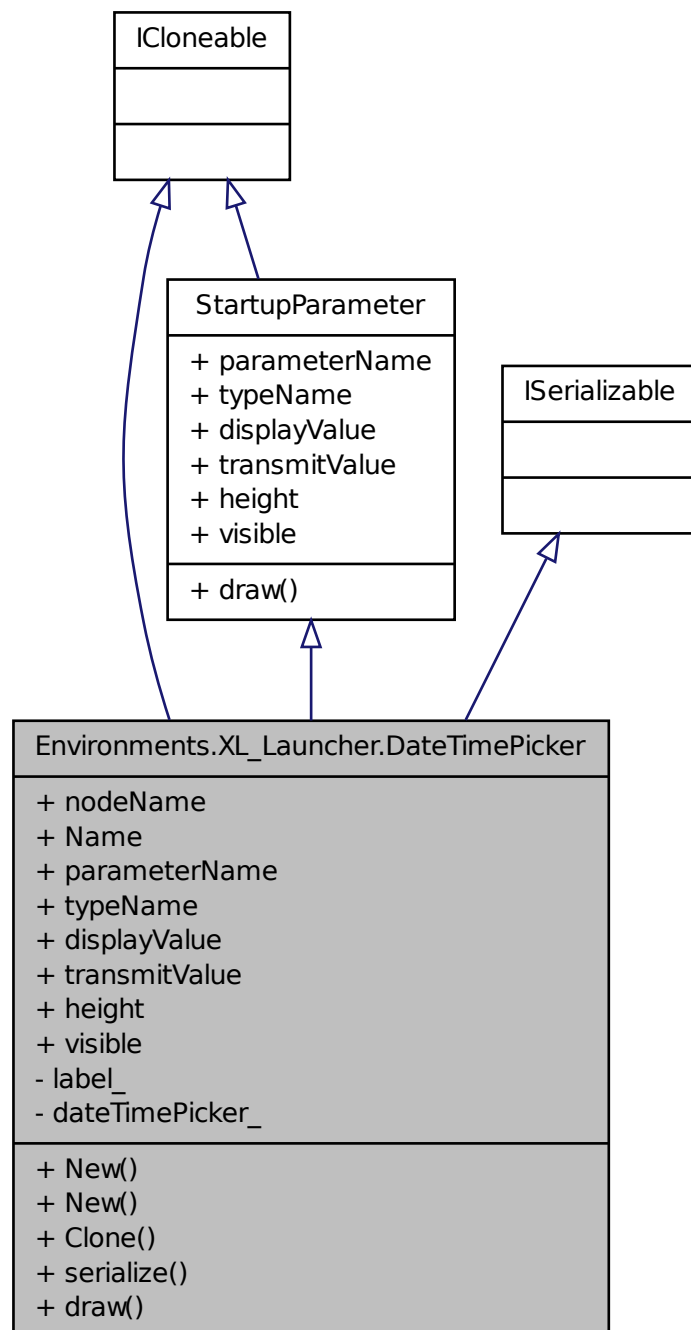
Properties Implements ISerializable.nodeName

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

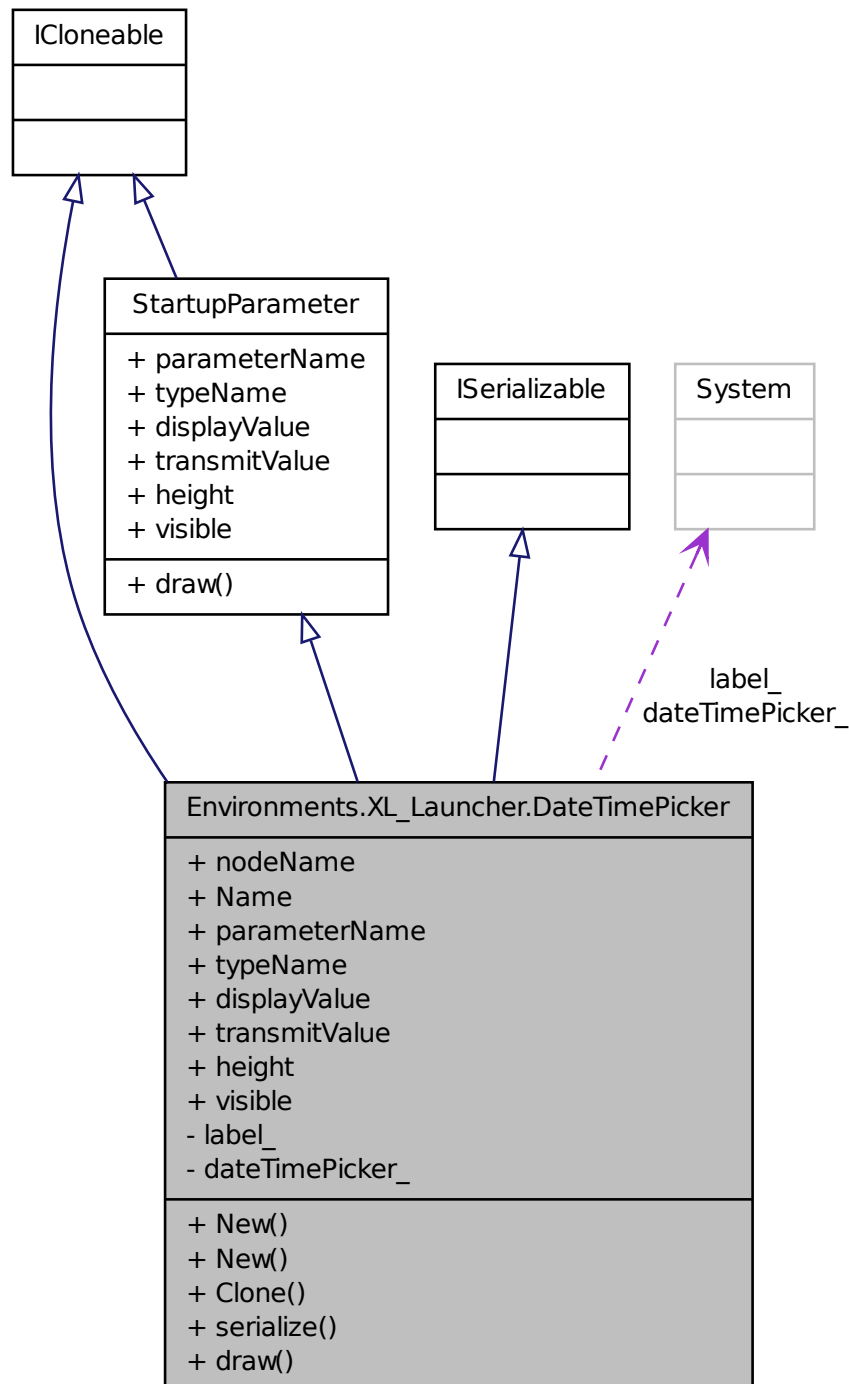
- [Component.vb](#)

7.6 Environments.XL_Launcher.DateTimePicker Class Reference

Inheritance diagram for Environments.XL_Launcher.DateTimePicker:



Collaboration diagram for Environments.XL_Launcher.DateTimePicker:



Public Member Functions

- void [New](#) ()
- void [New](#) (string label, DateTime value, bool enabled)
- object [Clone](#) ()
- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- void [draw](#) (ref System.Windows.Forms.Control.ControlCollection c, int y)

Properties

- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string [parameterName](#) [get]
- string [typeName](#) [get]
- object [displayValue](#) [get, set]
- object [transmitValue](#) [get]
- int [height](#) [get]
- bool [visible](#) [get]

7.6.1 Member Function Documentation

7.6.1.1 object Environments.XL_Launcher.DateTimePicker.Clone ()

[ICloneable Interface](#) Implements [ICloneable.Clone](#)

7.6.1.2 void Environments.XL_Launcher.DateTimePicker.draw (ref System.Windows.Forms.Control.ControlCollection c, int y)

[StartupParameter Interface](#) Implements [StartupParameter.draw](#)

Implements [Environments.XL_Launcher.StartupParameter](#).

7.6.1.3 void Environments.XL_Launcher.DateTimePicker.New ()

Initialization

7.6.1.4 void Environments.XL_Launcher.DateTimePicker.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements [ISerializable.serialize](#)

7.6.2 Property Documentation

7.6.2.1 object Environments.XL_Launcher.DateTimePicker.displayValue [get, set]

Implements [StartupParameter.displayValue](#)

Implements [Environments.XL_Launcher.StartupParameter](#).

7.6.2.2 int Environments.XL_Launcher.DateTimePicker.height [get]

Implements StartupParameter.height

Implements [Environments.XL_Launcher.StartupParameter](#).

7.6.2.3 string Environments.XL_Launcher.DateTimePicker.Name [get, set]

Implements ISerializable.Name

7.6.2.4 string Environments.XL_Launcher.DateTimePicker.nodeName [get]

Properties Implements ISerializable.nodeName

7.6.2.5 string Environments.XL_Launcher.DateTimePicker.parameterName [get]

Implements StartupParameter.parameterName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.6.2.6 object Environments.XL_Launcher.DateTimePicker.transmitValue [get]

Implements StartupParameter.transmitValue

Implements [Environments.XL_Launcher.StartupParameter](#).

7.6.2.7 string Environments.XL_Launcher.DateTimePicker.typeName [get]

Implements StartupParameter.typeName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.6.2.8 bool Environments.XL_Launcher.DateTimePicker.visible [get]

Implements StartupParameter.visible

Implements [Environments.XL_Launcher.StartupParameter](#).

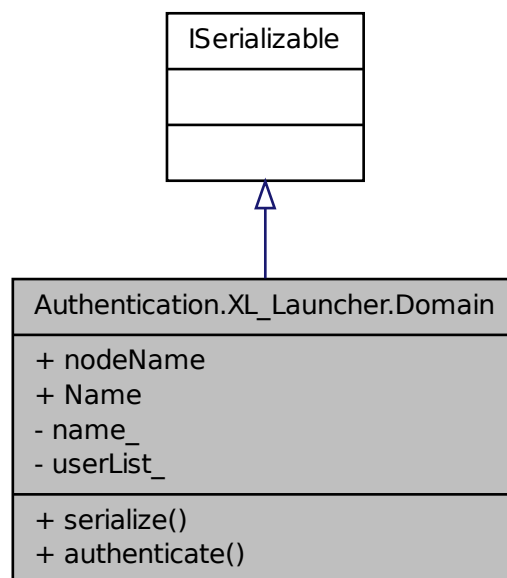
The documentation for this class was generated from the following file:

- [StartupParameter.vb](#)

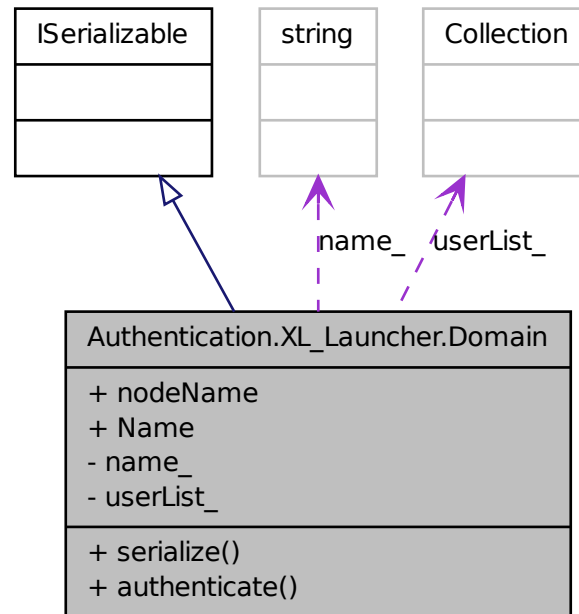
7.7 Authentication.XL_Launcher.Domain Class Reference

Encapsulate the information relating to the domain to which the current user belongs. Used for authentication.

Inheritance diagram for Authentication.XL_Launcher.Domain:



Collaboration diagram for Authentication.XL_Launcher.Domain:



Public Member Functions

- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- bool **authenticate** (string domainName, string userName, string machineName)

Properties

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

7.7.1 Detailed Description

Encapsulate the information relating to the domain to which the current user belongs. Used for authentication.

7.7.2 Member Function Documentation

7.7.2.1 void Authentication.XL_Launcher.Domain.serialize (ref ISerializer *serializer*, int *versionNumber*)

Implements ISerializable.serialize

7.7.3 Property Documentation

7.7.3.1 string Authentication.XL_Launcher.Domain.Name [get, set]

Implements ISerializable.Name

7.7.3.2 string Authentication.XL_Launcher.Domain.nodeName [get]

Implements ISerializable.nodeName

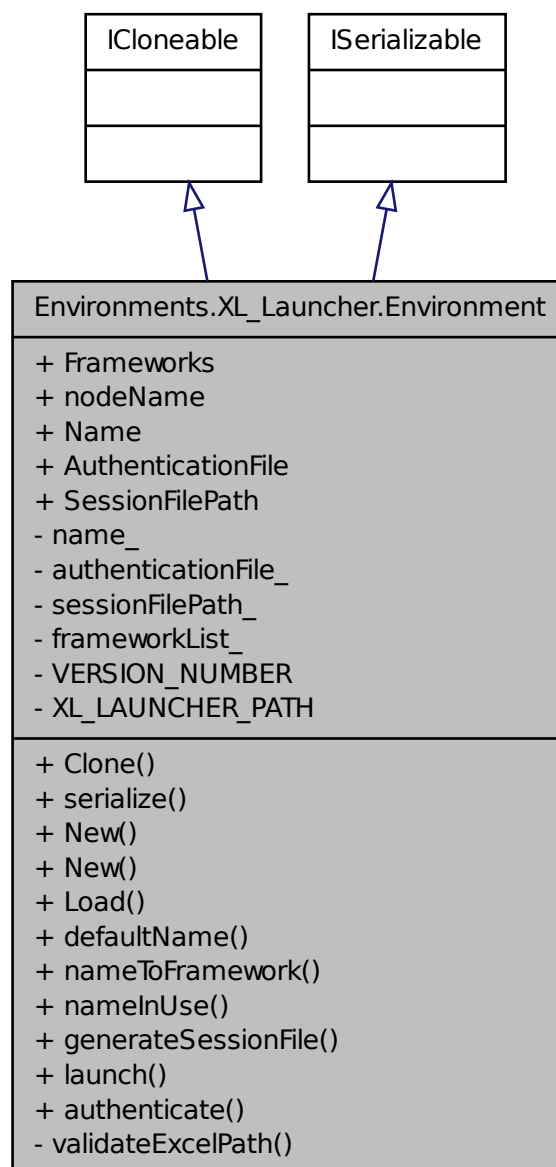
The documentation for this class was generated from the following file:

- [Domain.vb](#)

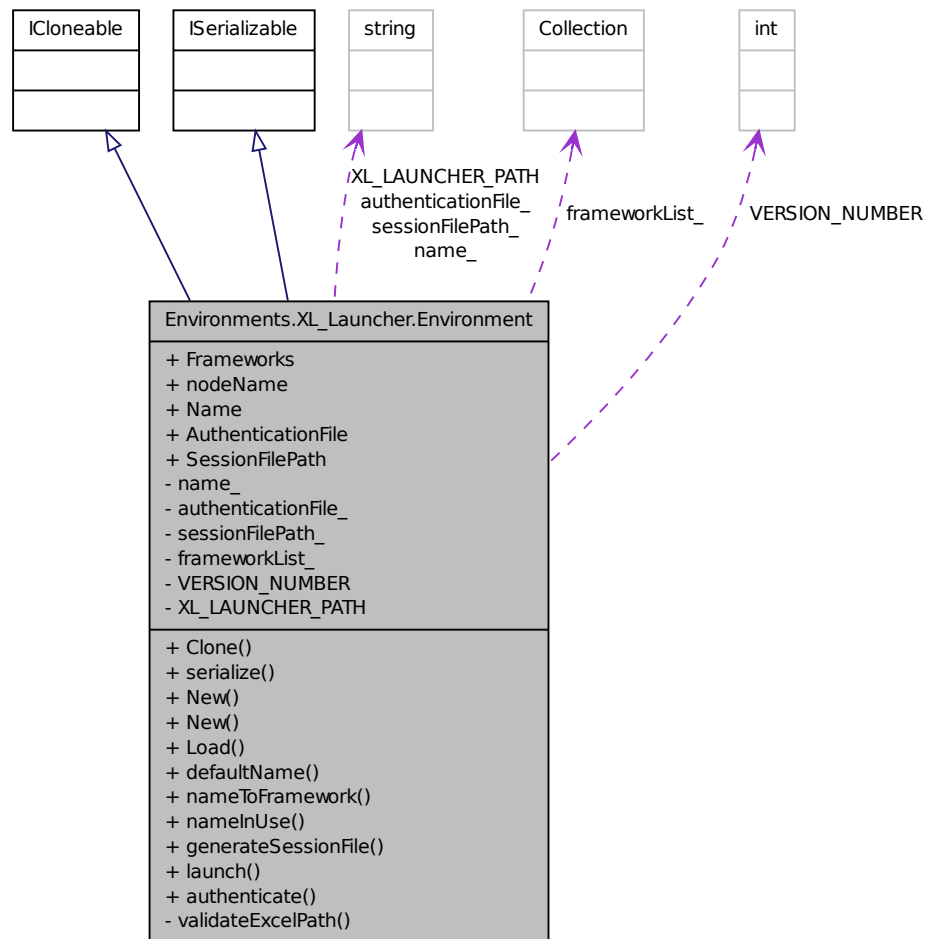
7.8 Environments.XL_Launcher.Environment Class Reference

A collection of [Framework](#) objects comprising all of the resources to be loaded into a given instance of Excel.

Inheritance diagram for Environments.XL_Launcher.Environment:



Collaboration diagram for Environments.XL_Launcher.Environment:



Public Member Functions

- object `Clone()`
- void `serialize` (ref ISerializer serializer, int versionNumber)
- void `New()`
- void `New` (string name, string userConfigPath, string sessionFilePath)
- void `Load` (string path)
- void `defaultName` (string defaultName)
- `Framework` `nameToFramework` (string frameworkName)
- bool `nameInUse` (string frameworkName)
- void `generateSessionFile` (Collection globalAddins, string sessionFileDir)
- void `launch` (string excelPath, string sessionFileDir, string launcherXlaPath, Collection globalAddins)
- bool `authenticate()`

Properties

- Collection [Frameworks](#) [get]
- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string [AuthenticationFile](#) [get]
- string [SessionFilePath](#) [get]

7.8.1 Detailed Description

A collection of [Framework](#) objects comprising all of the resources to be loaded into a given instance of Excel.

7.8.2 Member Function Documentation

7.8.2.1 bool Environments.XL_Launcher.Environment.authenticate ()

user authentication

7.8.2.2 object Environments.XL_Launcher.Environment.Clone ()

[ICloneable Interface](#) Implements ICloneable.Clone

7.8.2.3 Framework Environments.XL_Launcher.Environment.nameToFramework (string *frameworkName*)

Public Methods

7.8.2.4 void Environments.XL_Launcher.Environment.New ()

Initialization

7.8.2.5 void Environments.XL_Launcher.Environment.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements ISerializable.serialize

7.8.3 Property Documentation

7.8.3.1 Collection Environments.XL_Launcher.Environment.Frameworks [get]

Properties

7.8.3.2 string Environments.XL_Launcher.Environment.Name [get, set]

Implements ISerializable.Name

7.8.3.3 string Environments.XL_Launcher.Environment.nodeName [get]

Implements ISerializable.nodeName

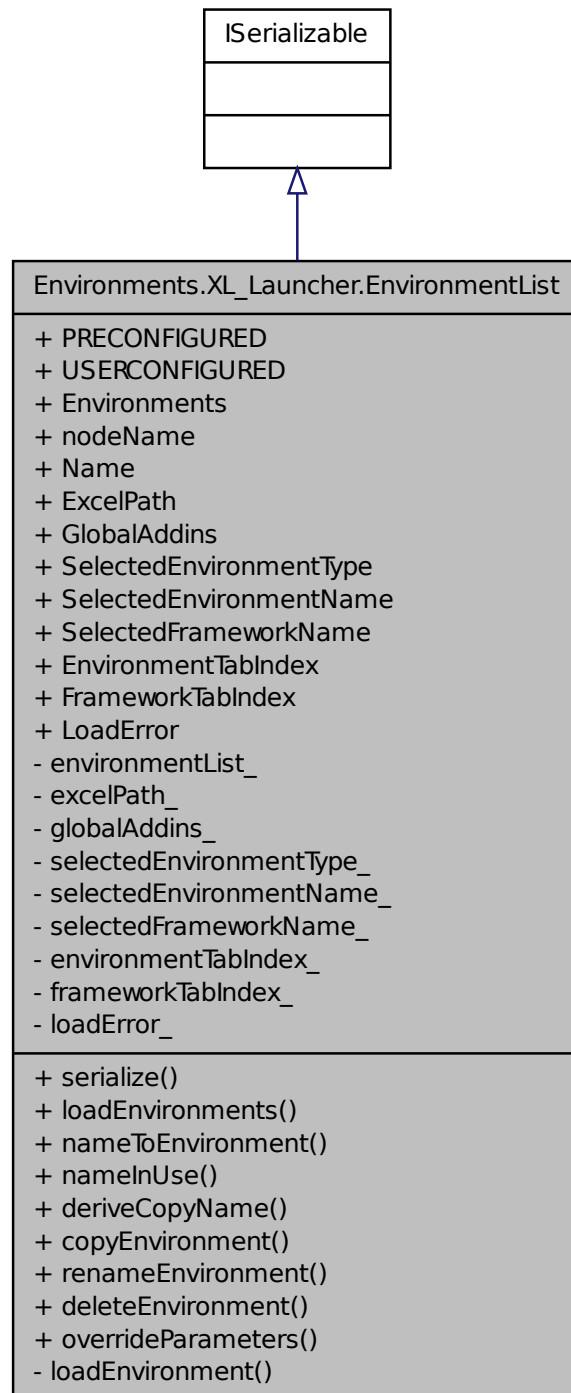
The documentation for this class was generated from the following file:

- [Environment.vb](#)

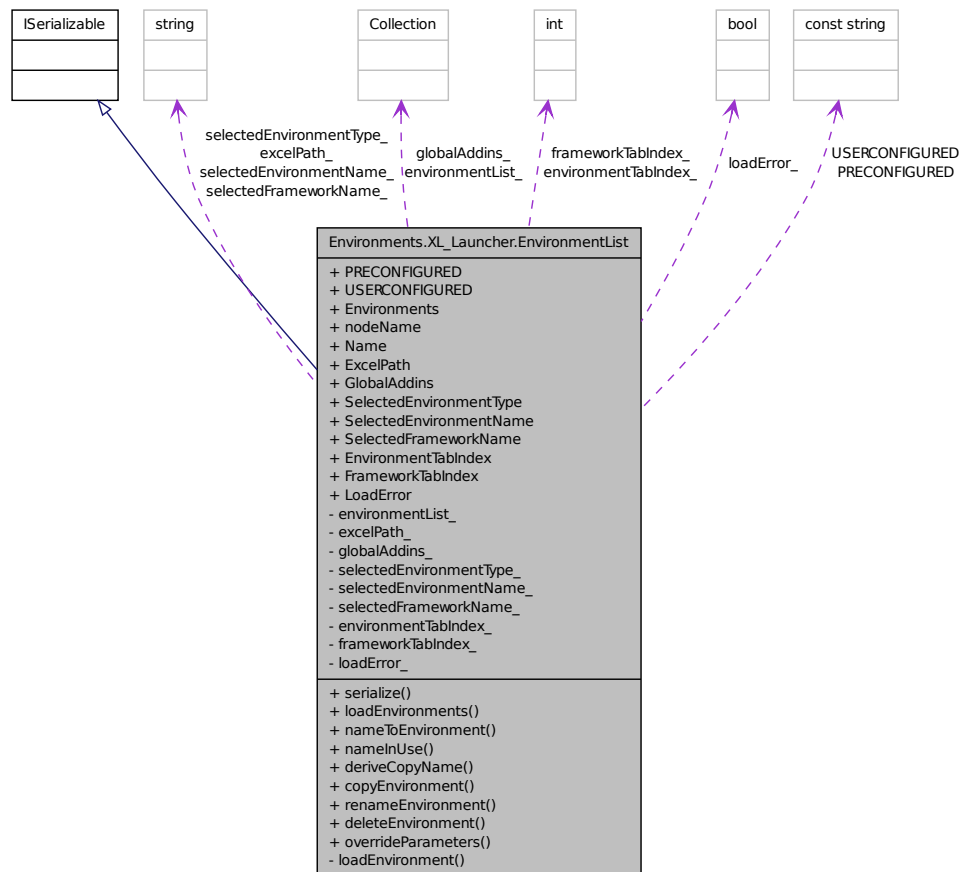
7.9 Environments.XL_Launcher.EnvironmentList Class Reference

A collection of [Environment](#) objects. In practice the application uses two [EnvironmentList](#) objects, one for Pre Configured [Environments](#) and the other for User Configured [Environments](#). Each of these is displayed in a ListBox object in the main UI.

Inheritance diagram for Environments.XL_Launcher.EnvironmentList:



Collaboration diagram for Environments.XL_Launcher.EnvironmentList:



Public Member Functions

- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- void **loadEnvironments** (string configPath)
- [Environment](#) **nameToEnvironment** (string environmentName)
- bool **nameInUse** (string environmentName)
- string **deriveCopyName** (string text)
- [Environment](#) **copyEnvironment** ([Environment](#) environment, string copyName)
- void **renameEnvironment** (string oldName, string newName)
- void **deleteEnvironment** (string environmentName)
- void **overrideParameters** ([EnvironmentList](#) l)

Public Attributes

- const string [PRECONFIGURED](#) = "PreConfigured"
- const string **USERCONFIGURED** = "UserConfigured"

Properties

- Collection [Environments](#) [get]
- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string [ExcelPath](#) [get, set]
- Collection [GlobalAddins](#) [get]
- string [SelectedEnvironmentType](#) [get, set]
- string [SelectedEnvironmentName](#) [get, set]
- string [SelectedFrameworkName](#) [get, set]
- int [EnvironmentTabIndex](#) [get, set]
- int [FrameworkTabIndex](#) [get, set]
- bool [LoadError](#) [get]

7.9.1 Detailed Description

A collection of [Environment](#) objects. In practice the application uses two [EnvironmentList](#) objects, one for Pre Configured [Environments](#) and the other for User Configured [Environments](#). Each of these is displayed in a ListBox object in the main UI.

7.9.2 Member Function Documentation

7.9.2.1 void [Environments.XL_Launcher.EnvironmentList.serialize](#) ([ref ISerializer serializer](#), [int versionNumber](#))

Serializable [Interface](#) Implements [ISerializable.serialize](#)

7.9.3 Member Data Documentation

7.9.3.1 const string [Environments.XL_Launcher.EnvironmentList.PRECONFIGURED](#) = "PreConfigured"

Members

7.9.4 Property Documentation

7.9.4.1 Collection [Environments.XL_Launcher.EnvironmentList.Environments](#) [get]

Properties

7.9.4.2 string [Environments.XL_Launcher.EnvironmentList.Name](#) [get, set]

Implements [ISerializable.Name](#)

7.9.4.3 string Environments.XL_Launcher.EnvironmentList.nodeName [get]

Implements ISerializable.nodeName

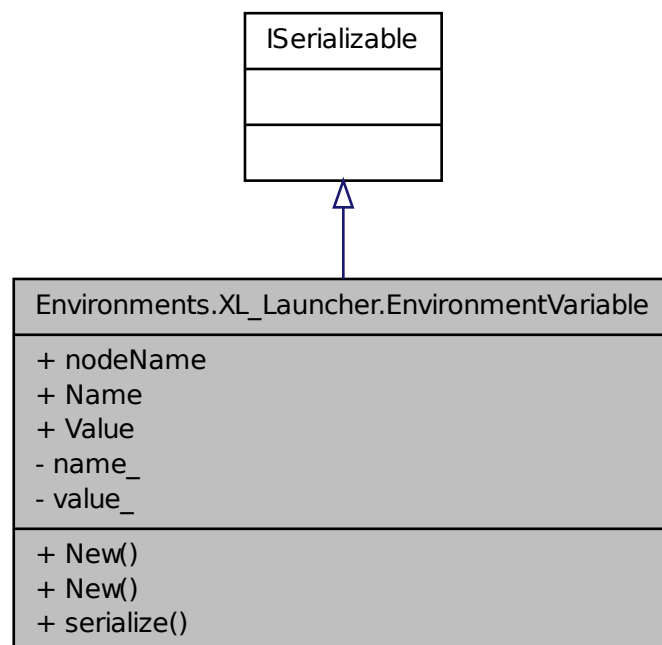
The documentation for this class was generated from the following file:

- [EnvironmentList.vb](#)

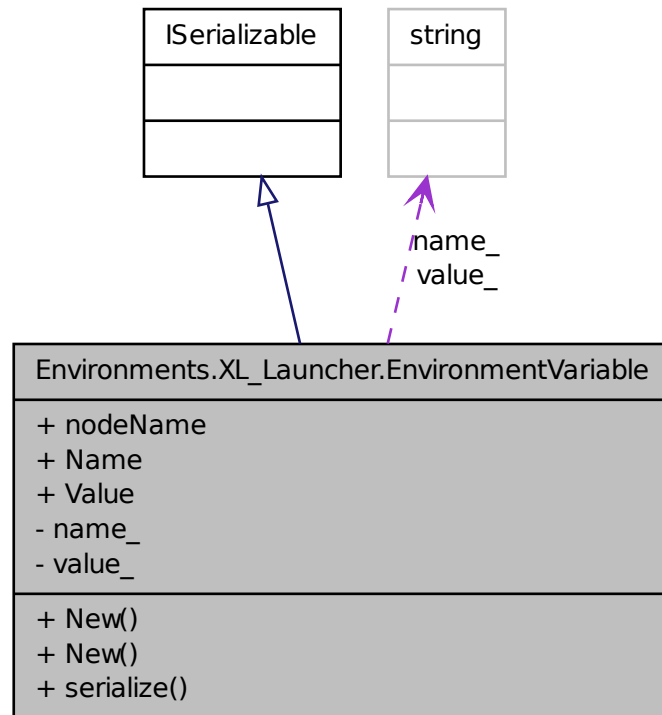
7.10 Environments.XL_Launcher.EnvironmentVariable Class Reference

An [Environment](#) Variable which is required by a given [Framework](#) and which is to be set by XL-Launcher within the subprocess in which Excel is spawned.

Inheritance diagram for Environments.XL_Launcher.EnvironmentVariable:



Collaboration diagram for Environments.XL_Launcher.EnvironmentVariable:



Public Member Functions

- void [New](#) (string name, string value)
- void **New** ()
- void [serialize](#) (ref ISerializer serializer, int versionNumber)

Properties

- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string **Value** [get, set]

7.10.1 Detailed Description

An [Environment](#) Variable which is required by a given [Framework](#) and which is to be set by XL-Launcher within the subprocess in which Excel is spawned.

7.10.2 Member Function Documentation

7.10.2.1 void Environments.XL_Launcher.EnvironmentVariable.New (string *name*, string *value*)

Initialization

7.10.2.2 void Environments.XL_Launcher.EnvironmentVariable.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable interface Implements ISerializable.serialize

7.10.3 Property Documentation

7.10.3.1 string Environments.XL_Launcher.EnvironmentVariable.Name [get, set]

Implements ISerializable.Name

7.10.3.2 string Environments.XL_Launcher.EnvironmentVariable.nodeName [get]

Properties Implements ISerializable.nodeName

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

- [EnvironmentVariable.vb](#)

7.11 Serialization.XL_Launcher.Factory Class Reference

A Singleton utility for converting a type string into an instance of the corresponding object.

Static Public Member Functions

- static object **make** (string className)

7.11.1 Detailed Description

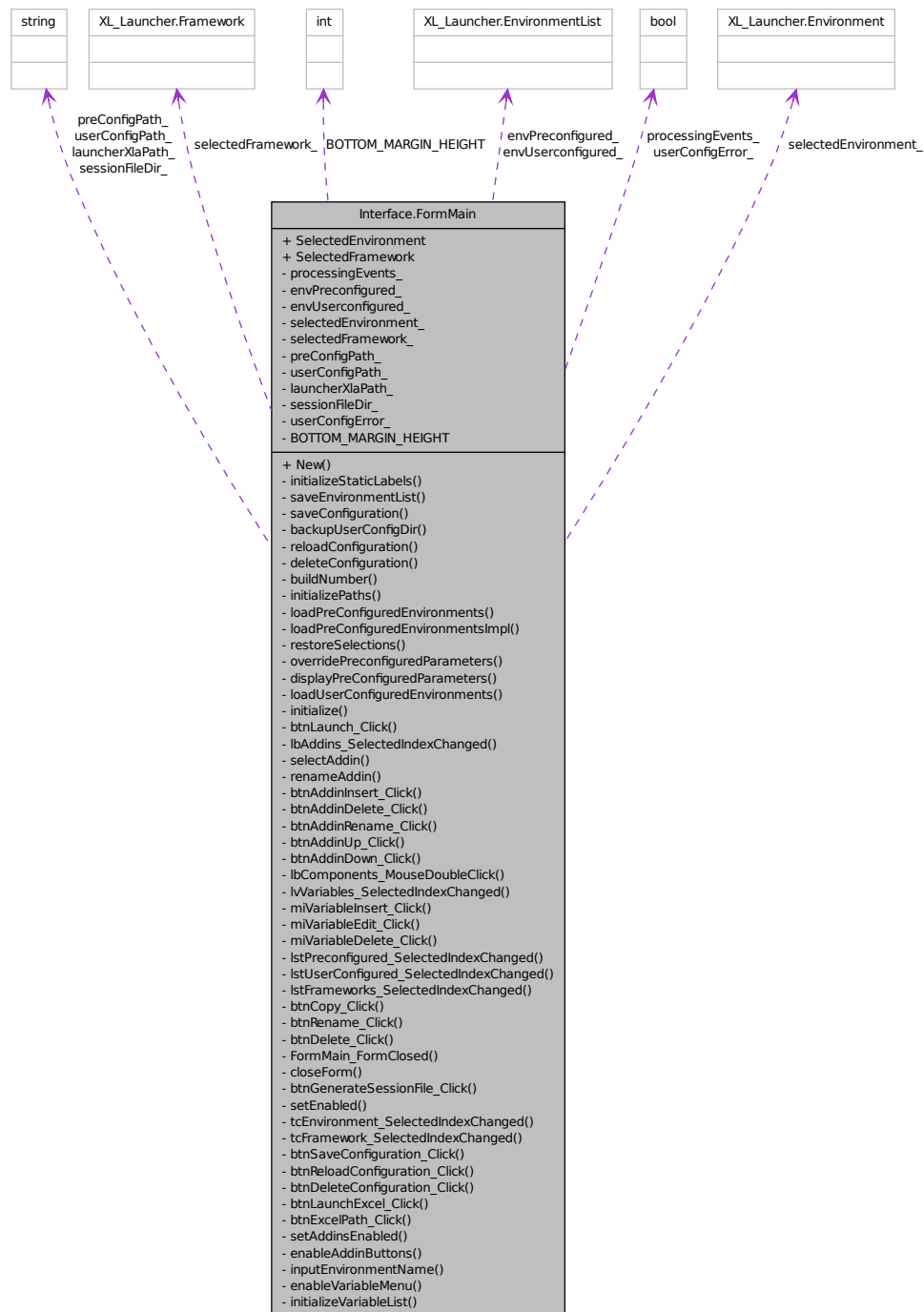
A Singleton utility for converting a type string into an instance of the corresponding object.

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

- [Factory.vb](#)

7.12 Interface.FormMain Class Reference

Collaboration diagram for Interface.FormMain:



Public Member Functions

- void [New](#) ()

7.12.1 Member Function Documentation

7.12.1.1 void [Interface.FormMain.New](#) ()

Initialization

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

- [FormMain.vb](#)
- [FormMainAddins.vb](#)
- [FormMainEnvironments.vb](#)
- [FormMainVariables.vb](#)

7.13 [Interface.FormVariableEdit](#) Class Reference

7.13.1 Detailed Description

Remarks

Handles the Button1.Click event.

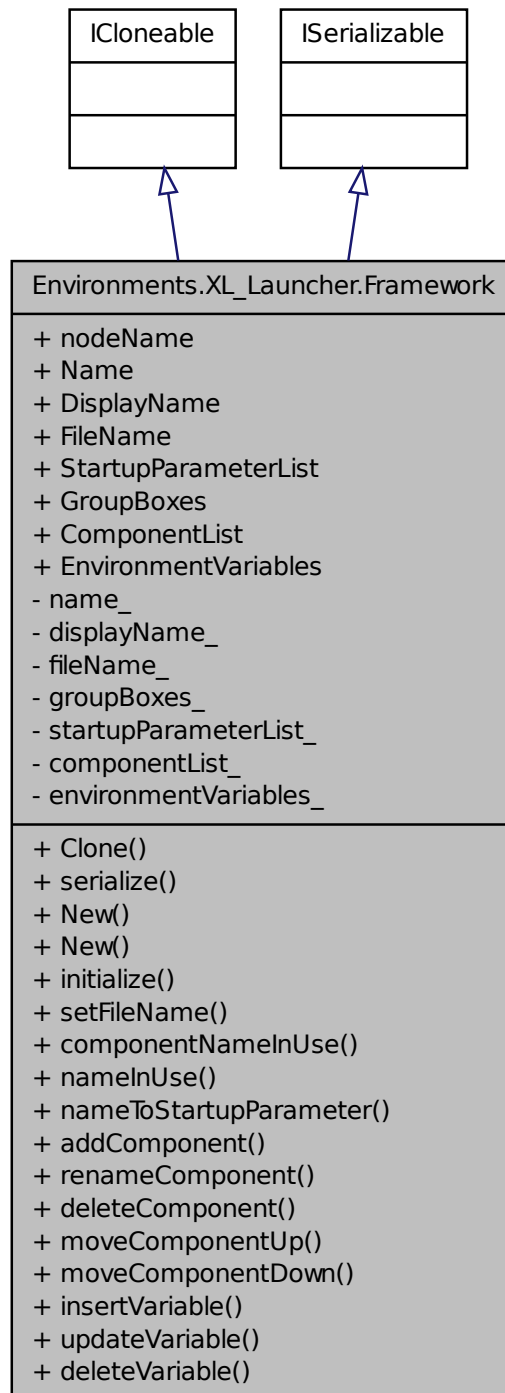
The documentation for this class was generated from the following file:

- [FormVariableEdit.vb](#)

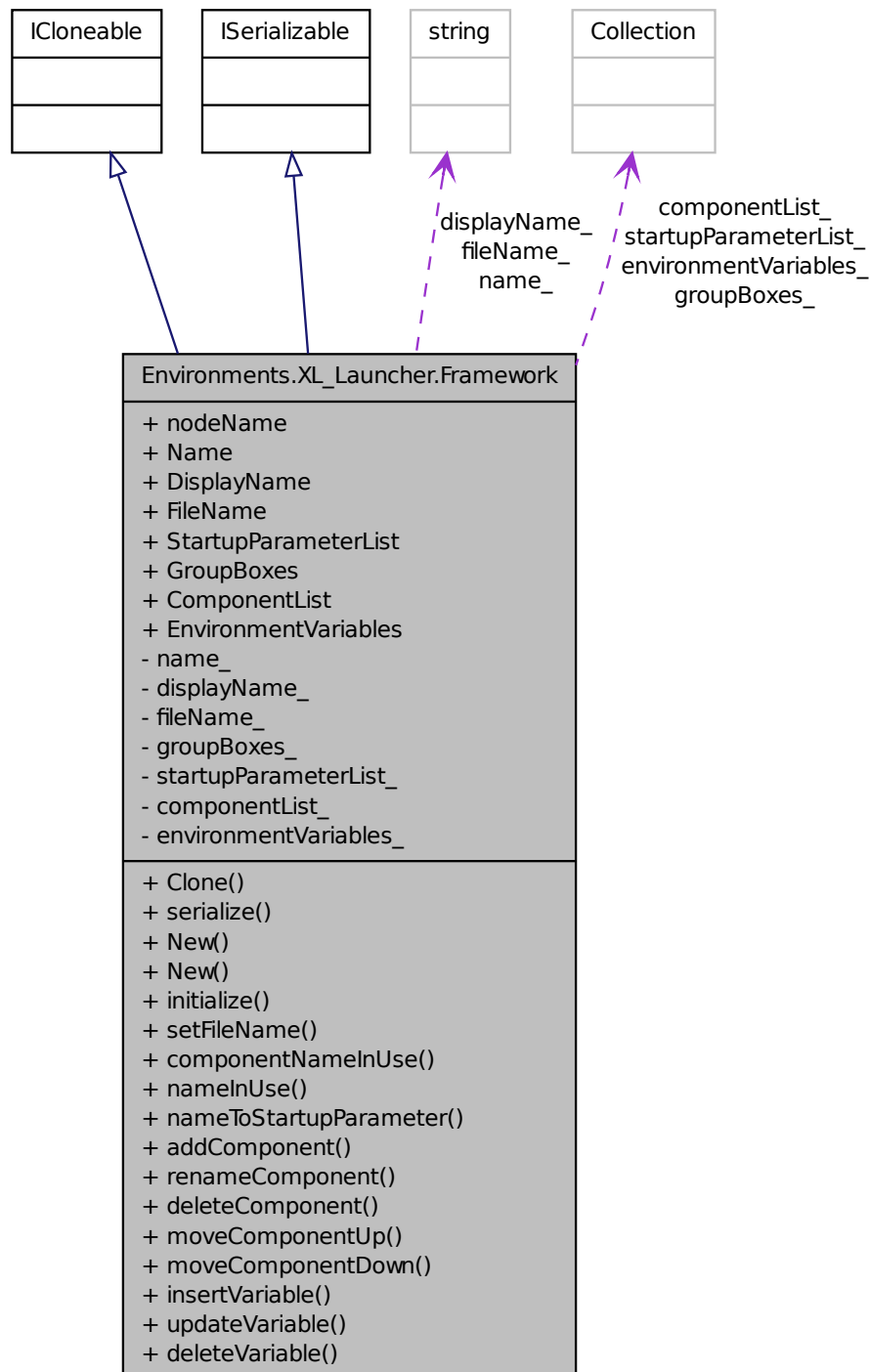
7.14 [Environments.XL_Launcher.Framework](#) Class Reference

A collection of Components (Addins) which together comprise an Excel VBA application.

Inheritance diagram for Environments.XL_Launcher.Framework:



Collaboration diagram for Environments.XL_Launcher.Framework:



Public Member Functions

- object [Clone](#) ()
- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- void [New](#) (string name, string displayName, string fileName)
- void [New](#) ()
- void [initialize](#) ()
- void [setFileName](#) (string fileName)
- bool [componentNameInUse](#) (string componentName)
- bool [nameInUse](#) (string startupParameterName)
- [StartupParameter](#) [nameToStartupParameter](#) (string startupParameterName)
- void [addComponent](#) (string filename, int index)
- void [renameComponent](#) (string pathOld, string pathNew)
- void [deleteComponent](#) (string path)
- void [moveComponentUp](#) (int index)
- void [moveComponentDown](#) (int index)
- void [insertVariable](#) (string name, string value)
- void [updateVariable](#) (string nameOld, string nameNew, string valueNew)
- void [deleteVariable](#) (string name)

Properties

- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string [DisplayName](#) [get]
- string [FileName](#) [get]
- Collection [StartupParameterList](#) [get]
- Collection [GroupBoxes](#) [get]
- Collection [ComponentList](#) [get]
- Collection [EnvironmentVariables](#) [get]

7.14.1 Detailed Description

A collection of Components (Addins) which together comprise an Excel VBA application.

7.14.2 Member Function Documentation

7.14.2.1 object Environments.XL_Launcher.Framework.Clone ()

[ICloneable Interface](#) Implements ICloneable.Clone

7.14.2.2 bool Environments.XL_Launcher.Framework.componentNameInUse (string *componentName*)

Methods

7.14.2.3 void Environments.XL_Launcher.Framework.insertVariable (string *name*, string *value*)

[Environment](#) Variables

7.14.2.4 void Environments.XL_Launcher.Framework.New (string *name*, string *displayName*, string *fileName*)

Initialization

7.14.2.5 void Environments.XL_Launcher.Framework.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable interface Implements ISerializable.serialize

7.14.3 Property Documentation

7.14.3.1 string Environments.XL_Launcher.Framework.Name [get, set]

Implements ISerializable.Name

7.14.3.2 string Environments.XL_Launcher.Framework.nodeName [get]

Properties Implements ISerializable.nodeName

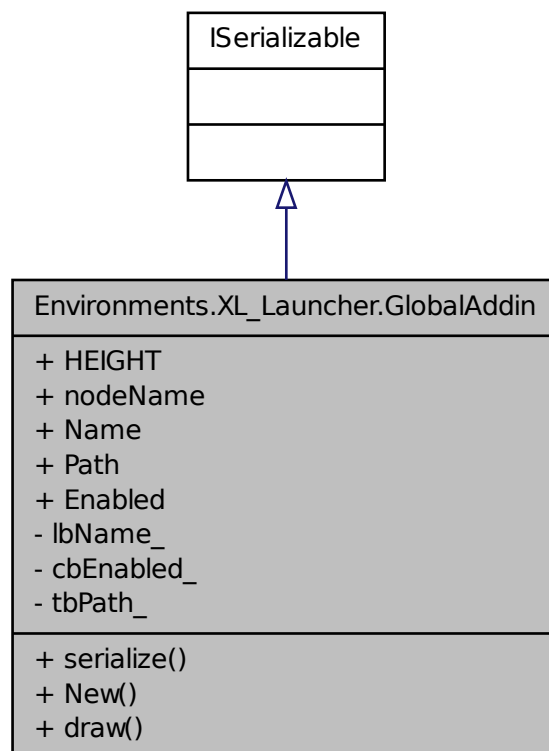
The documentation for this class was generated from the following file:

- [Framework.vb](#)

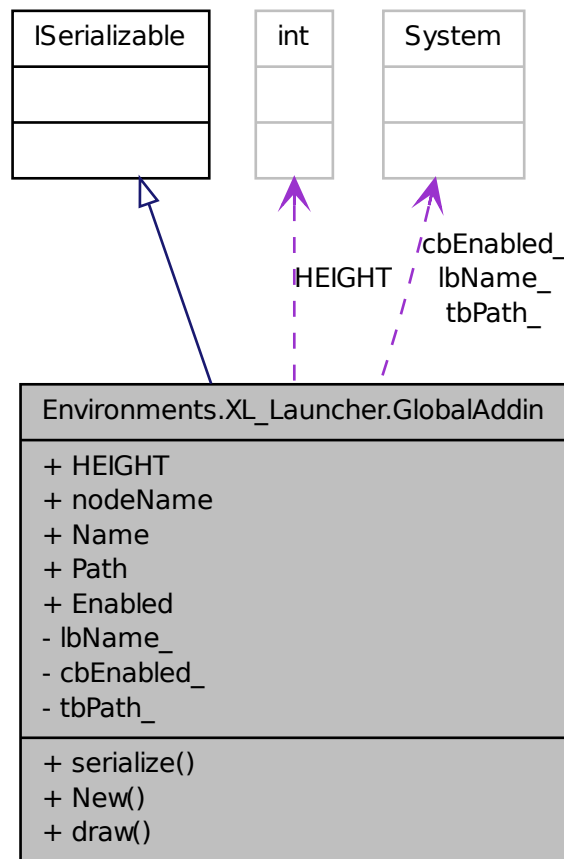
7.15 Environments.XL_Launcher.GlobalAddin Class Reference

An Addin which is specific to an overall Excel session and not to any particular Excel VBA application, e.g. Reuters, Bloomberg, Oracle.

Inheritance diagram for Environments.XL_Launcher.GlobalAddin:



Collaboration diagram for Environments.XL_Launcher.GlobalAddin:



Public Member Functions

- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- void [New](#) ()
- void [draw](#) (ref System.Windows.Forms.Control.ControlCollection c, int y)

Public Attributes

- const int **HEIGHT** = 39

Properties

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

- string **Path** [get, set]
- bool **Enabled** [get, set]

7.15.1 Detailed Description

An Addin which is specific to an overall Excel session and not to any particular Excel VBA application, e.g. Reuters, Bloomberg, Oracle.

7.15.2 Member Function Documentation

7.15.2.1 void Environments.XL_Launcher.GlobalAddin.draw (ref System.Windows.Forms.Control.ControlCollection c, int y)

Public [Interface](#)

7.15.2.2 void Environments.XL_Launcher.GlobalAddin.New ()

Initialization

7.15.2.3 void Environments.XL_Launcher.GlobalAddin.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements ISerializable.serialize

7.15.3 Property Documentation

7.15.3.1 string Environments.XL_Launcher.GlobalAddin.Name [get, set]

Implements ISerializable.Name

7.15.3.2 string Environments.XL_Launcher.GlobalAddin.nodeName [get]

Properties Implements ISerializable.nodeName

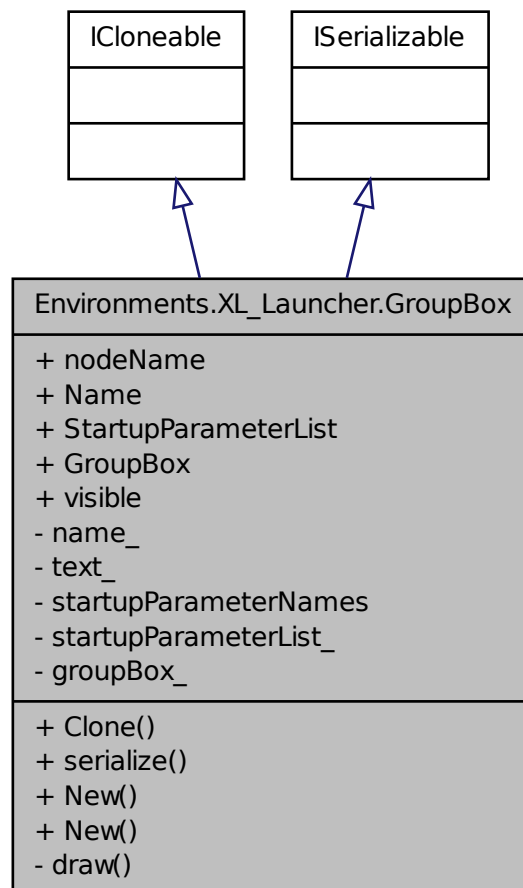
The documentation for this class was generated from the following file:

- [GlobalAddin.vb](#)

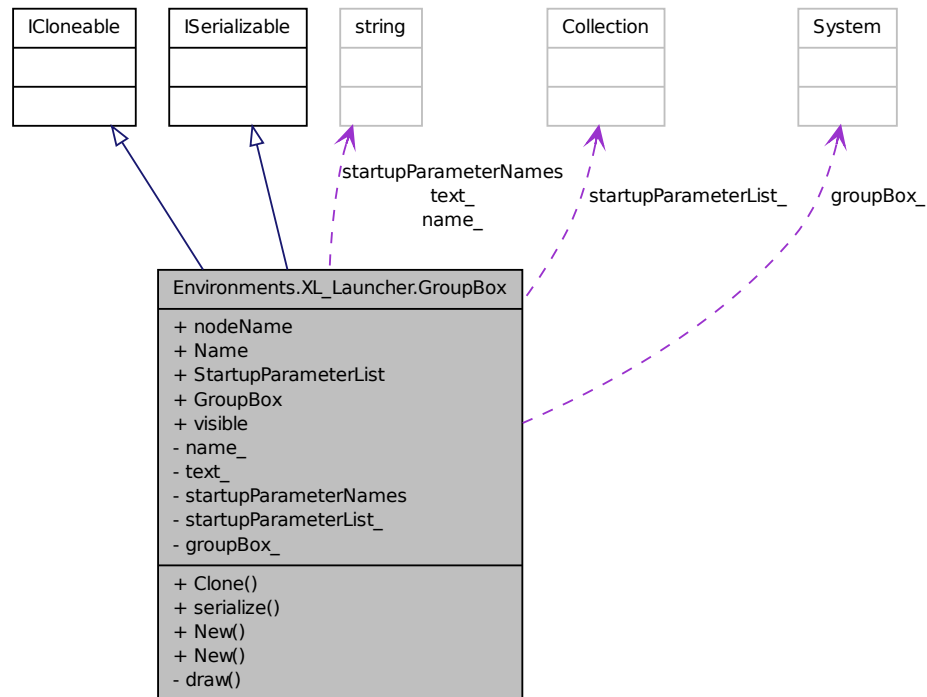
7.16 Environments.XL_Launcher.GroupBox Class Reference

Encapsulate a collection of Startup Parameter objects which are displayed together in the XL-Launcher UI within a single [GroupBox](#) control.

Inheritance diagram for Environments.XL_Launcher.GroupBox:



Collaboration diagram for Environments.XL_Launcher.GroupBox:



Public Member Functions

- object `Clone()`
- void `serialize` (ref ISerializer serializer, int versionNumber)
- void `New` (string name, string text)
- void `New` ()

Properties

- string `nodeName` [get]
- string `Name` [get, set]
- Collection **`StartupParameterList`** [get]
- System.Windows.Forms.GroupBox **`GroupBox`** [get, set]
- bool `visible` [get]

7.16.1 Detailed Description

Encapsulate a collection of Startup Parameter objects which are displayed together in the XL-Launcher UI within a single `GroupBox` control.

7.16.2 Member Function Documentation

7.16.2.1 object Environments.XL_Launcher.GroupBox.Clone ()

[ICloneable Interface](#) Implements ICloneable.Clone

7.16.2.2 void Environments.XL_Launcher.GroupBox.New (string *name*, string *text*)

Initialization

7.16.2.3 void Environments.XL_Launcher.GroupBox.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements ISerializable.serialize

7.16.3 Property Documentation

7.16.3.1 string Environments.XL_Launcher.GroupBox.Name [get, set]

Implements ISerializable.Name

7.16.3.2 string Environments.XL_Launcher.GroupBox.nodeName [get]

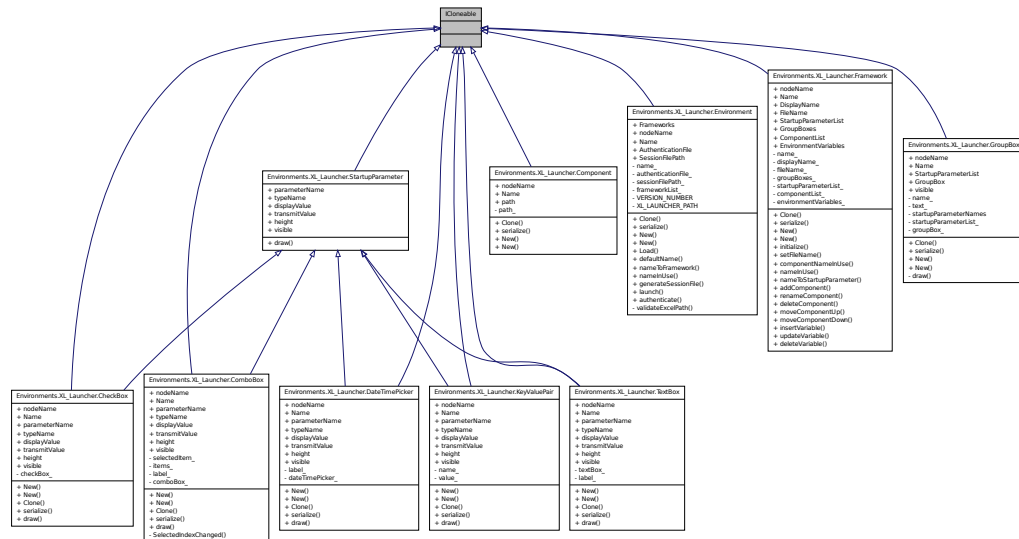
Properties Implements ISerializable.nodeName

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

- [GroupBox.vb](#)

7.17 ICloneable Class Reference

Inheritance diagram for ICloneable:



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

- StartupParameter.vb

7.18 Serialization.XL_Launcher.ISerializable Interface Reference

Abstract interface for any object capable of being serialized.

Public Member Functions

- void **serialize** (ref [ISerializer](#) serializer, int versionNumber)

Properties

- string `nodeName` [get]
Name of the node that hosts this object in XML or other stream.
- string `Name` [get, set]
Display name of this object, also used as object's unique key in a collection.

7.18.1 Detailed Description

Abstract interface for any object capable of being serialized.

7.18.2 Property Documentation

7.18.2.1 `string Serialization.XL_Launcher.ISerializable.Name` `[get, set]`

Display name of this object, also used as object's unique key in a collection.

Returns

7.18.2.2 `string Serialization.XL_Launcher.ISerializable.nodeName` `[get]`

Name of the node that hosts this object in XML or other stream.

Returns

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

- [ISerializable.vb](#)

7.19 ISerializable Class Reference

Inheritance diagram for ISerializable:



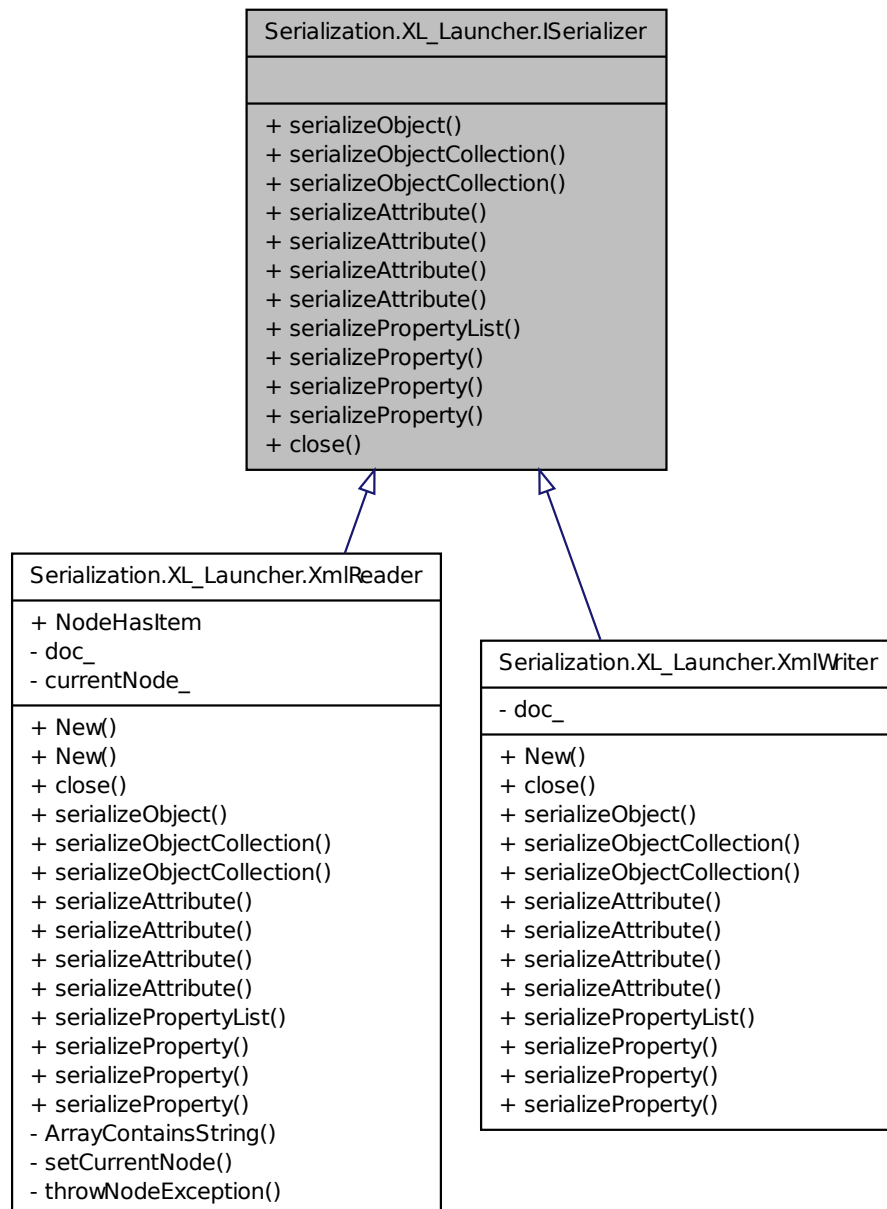
The documentation for this class was generated from the following files:

- [EnvironmentList.vb](#)
- [Domain.vb](#)
- [Machine.vb](#)
- [StartupParameter.vb](#)
- [User.vb](#)
- [Environment.vb](#)
- [GlobalAddin.vb](#)
- [Framework.vb](#)
- [Component.vb](#)
- [MessageFramework.vb](#)

7.20 Serialization.XL_Launcher.ISerializer Interface Reference

Abstract interface for any object capable of reading or writing a stream.

Inheritance diagram for Serialization.XL_Launcher.ISerializer:



Public Member Functions

- void **serializeObject** (ref [ISerializable](#) serializable, string className, int versionNumber)
- void **serializeObjectCollection** (ref Collection serializableList, string className, int versionNumber, bool nodeRequired=True, bool autoName=False, string collectionName=Nothing, bool descend=True)
- void **serializeObjectCollection** (ref Collection serializableList, string nodeName, string[] classNames, int versionNumber, bool nodeRequired=True, bool autoName=False, string collectionName=Nothing, bool descend=True)
- void **serializeAttribute** (ref string attr, string tag, string defaultValue=Nothing)
- void **serializeAttribute** (ref bool attr, string tag, string defaultValue=Nothing)
- void **serializeAttribute** (ref int attr, string tag)
- void **serializeAttribute** (ref DateTime attr, string tag)
- void **serializePropertyList** (ref string[] attr, string listTag, string itemTag)
- void **serializeProperty** (ref string prop, string tag, string defaultValue=Nothing)
- void **serializeProperty** (ref bool prop, string tag, string defaultValue=Nothing)
- void **serializeProperty** (ref int prop, string tag, string defaultValue=Nothing)
- void **close** ()

7.20.1 Detailed Description

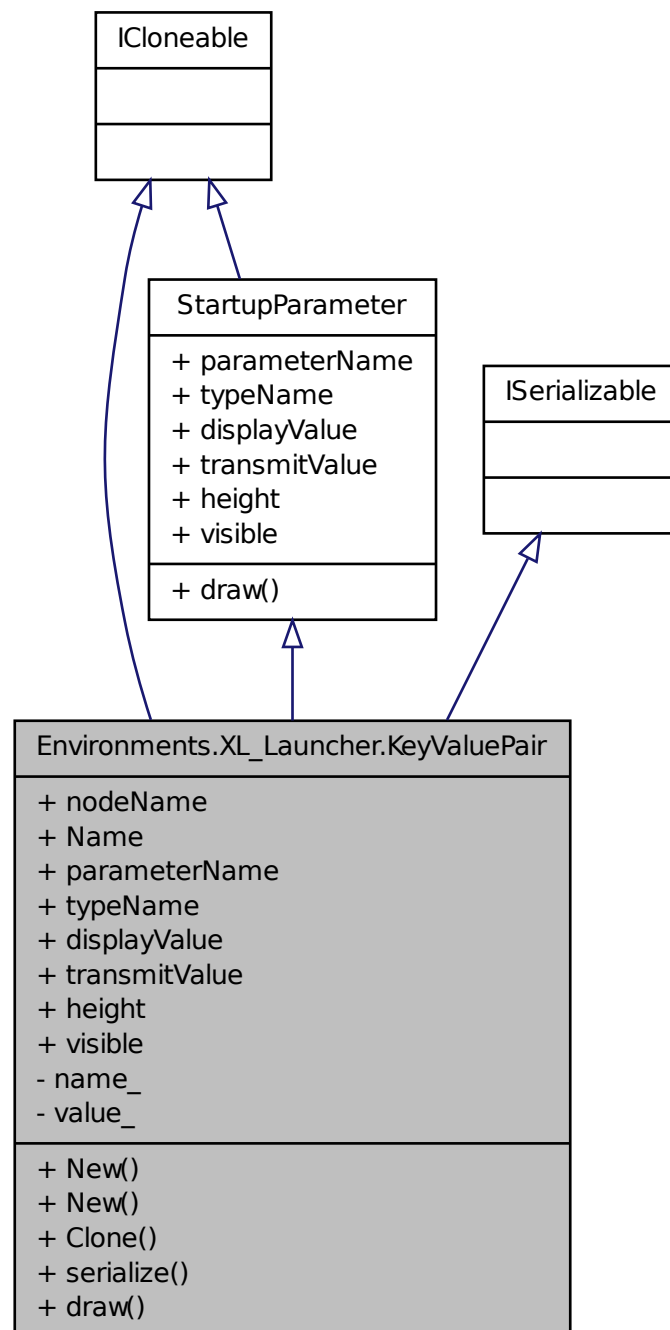
Abstract interface for any object capable of reading or writing a stream.

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

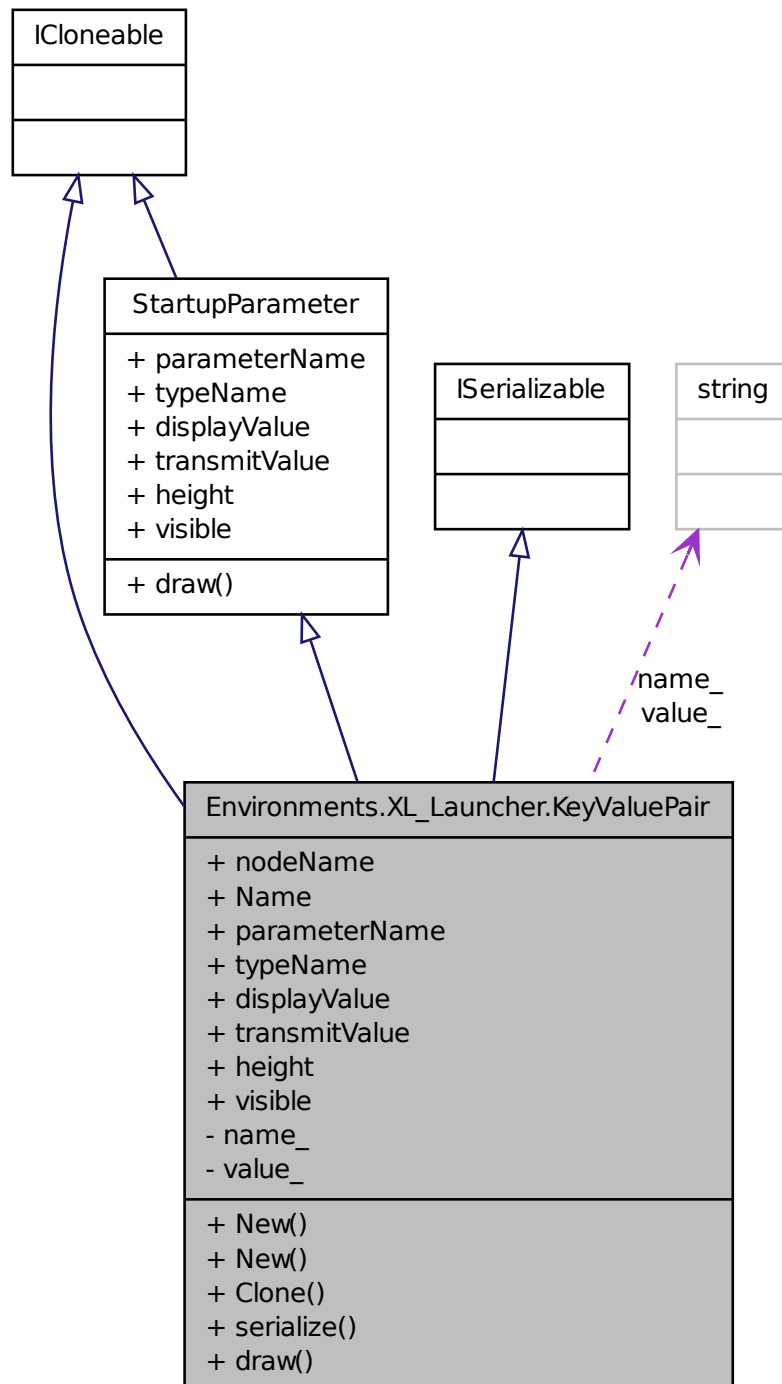
- [ISerializer.vb](#)

7.21 Environments.XL_Launcher.KeyValuePair Class Reference

Inheritance diagram for Environments.XL_Launcher.KeyValuePair:



Collaboration diagram for Environments.XL_Launcher.KeyValuePair:



Public Member Functions

- void [New](#) ()
- void [New](#) (string name, string value)
- object [Clone](#) ()
- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- void [draw](#) (ref System.Windows.Forms.Control.ControlCollection c, int y)

Properties

- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string [parameterName](#) [get]
- string [typeName](#) [get]
- object [displayValue](#) [get, set]
- object [transmitValue](#) [get]
- int [height](#) [get]
- bool [visible](#) [get]

7.21.1 Member Function Documentation

7.21.1.1 object Environments.XL_Launcher.KeyValuePair.Clone ()

[ICloneable Interface](#) Implements ICloneable.Clone

7.21.1.2 void Environments.XL_Launcher.KeyValuePair.draw (ref System.Windows.Forms.Control.ControlCollection c, int y)

[StartupParameter Interface](#) Implements StartupParameter.draw

Implements [Environments.XL_Launcher.StartupParameter](#).

7.21.1.3 void Environments.XL_Launcher.KeyValuePair.New ()

Initialization

7.21.1.4 void Environments.XL_Launcher.KeyValuePair.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements ISerializable.serialize

7.21.2 Property Documentation

7.21.2.1 object Environments.XL_Launcher.KeyValuePair.displayValue [get, set]

Implements StartupParameter.displayValue

Implements [Environments.XL_Launcher.StartupParameter](#).

7.21.2.2 int Environments.XL_Launcher.KeyValuePair.height [get]

Implements StartupParameter.height

Implements [Environments.XL_Launcher.StartupParameter](#).

7.21.2.3 string Environments.XL_Launcher.KeyValuePair.Name [get, set]

Implements ISerializable.Name

7.21.2.4 string Environments.XL_Launcher.KeyValuePair.nodeName [get]

Properties Implements ISerializable.nodeName

7.21.2.5 string Environments.XL_Launcher.KeyValuePair.parameterName [get]

Implements StartupParameter.parameterName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.21.2.6 object Environments.XL_Launcher.KeyValuePair.transmitValue [get]

Implements StartupParameter.transmitValue

Implements [Environments.XL_Launcher.StartupParameter](#).

7.21.2.7 string Environments.XL_Launcher.KeyValuePair.typeName [get]

Implements StartupParameter.typeName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.21.2.8 bool Environments.XL_Launcher.KeyValuePair.visible [get]

Implements StartupParameter.visible

Implements [Environments.XL_Launcher.StartupParameter](#).

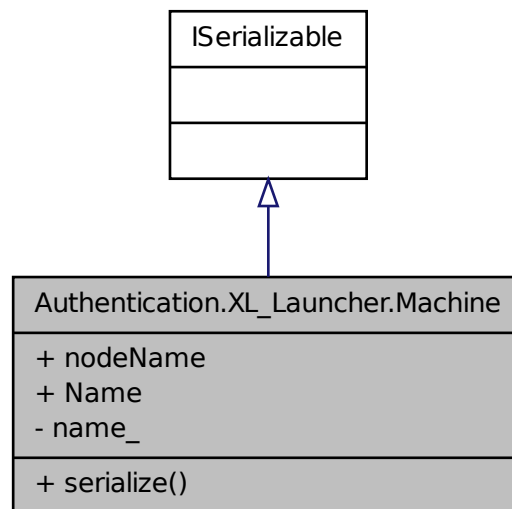
The documentation for this class was generated from the following file:

- [StartupParameter.vb](#)

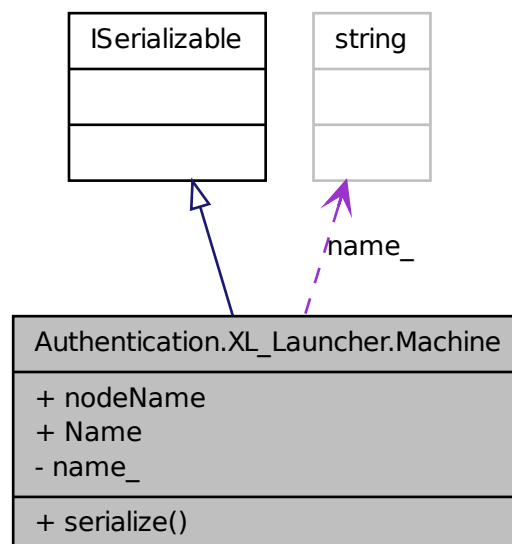
7.22 Authentication.XL_Launcher.Machine Class Reference

Encapsulate the information relating to the current machine on which this instance of XL-Launcher is running. Used for authentication.

Inheritance diagram for Authentication.XL_Launcher.Machine:



Collaboration diagram for Authentication.XL_Launcher.Machine:



Public Member Functions

- void [serialize](#) (ref ISerializer serializer, int versionNumber)

Properties

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

7.22.1 Detailed Description

Encapsulate the information relating to the current machine on which this instance of XL-Launcher is running. Used for authentication.

7.22.2 Member Function Documentation

7.22.2.1 void Authentication.XL_Launcher.Machine.serialize (ref ISerializer *serializer*, int *versionNumber*)

Implements ISerializable.serialize

7.22.3 Property Documentation

7.22.3.1 string Authentication.XL_Launcher.Machine.Name [get, set]

Implements ISerializable.Name

7.22.3.2 string Authentication.XL_Launcher.Machine.nodeName [get]

Implements ISerializable.nodeName

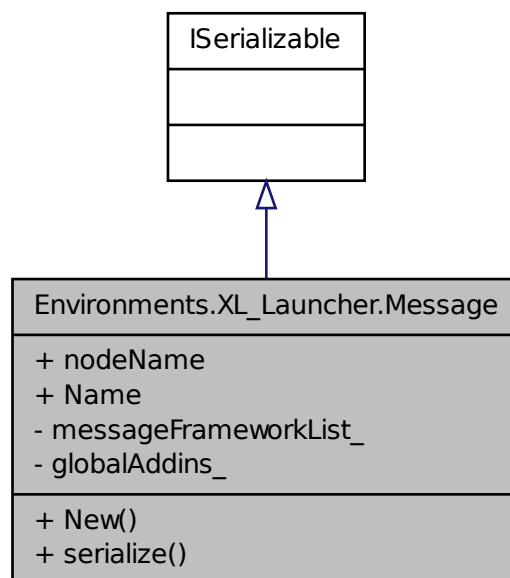
The documentation for this class was generated from the following file:

- [Machine.vb](#)

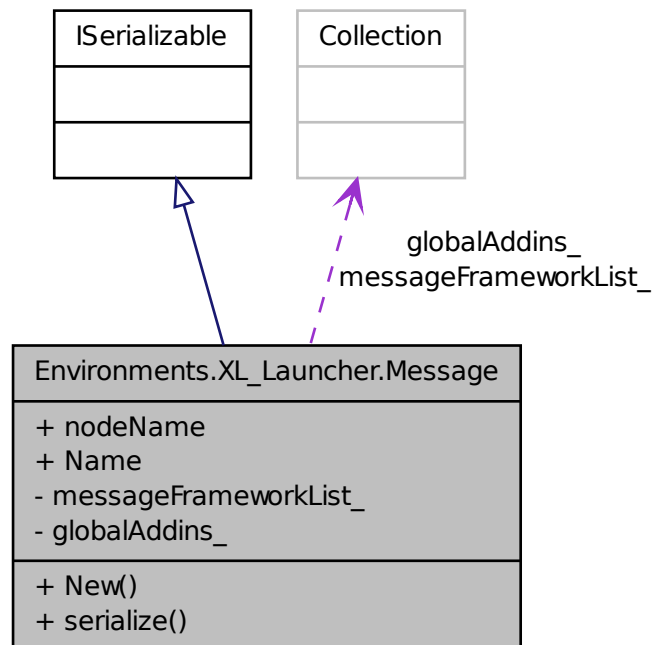
7.23 Environments.XL_Launcher.Message Class Reference

Generate the XML for the session file.

Inheritance diagram for Environments.XL_Launcher.Message:



Collaboration diagram for Environments.XL_Launcher.Message:



Public Member Functions

- void [New](#) (Collection frameworkList, Collection globalAddins)
- void [serialize](#) (ref ISerializer serializer, int versionNumber)

Properties

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

7.23.1 Detailed Description

Generate the XML for the session file.

7.23.2 Member Function Documentation

7.23.2.1 void Environments.XL_Launcher.Message.New (Collection *frameworkList*, Collection *globalAddins*)

Initialization

7.23.2.2 void Environments.XL_Launcher.Message.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements ISerializable.serialize

7.23.3 Property Documentation

7.23.3.1 string Environments.XL_Launcher.Message.Name [get, set]

Implements ISerializable.Name

7.23.3.2 string Environments.XL_Launcher.Message.nodeName [get]

Properties Implements ISerializable.nodeName

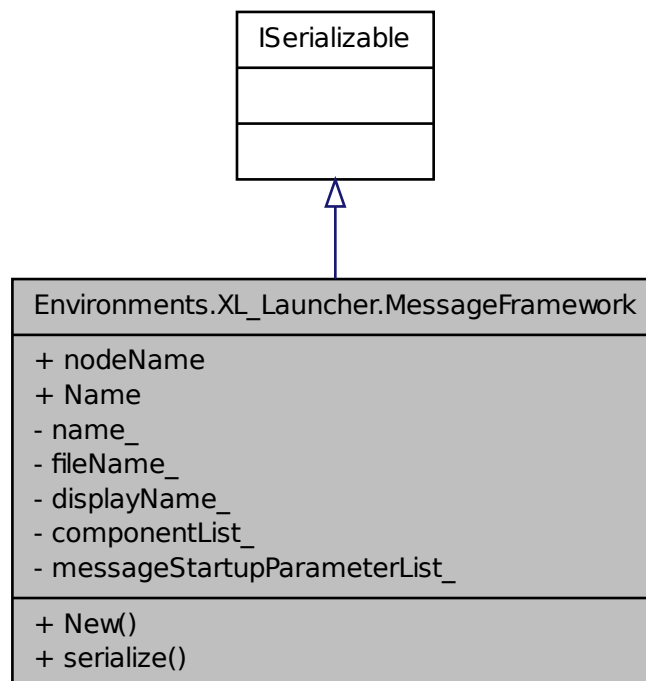
The documentation for this class was generated from the following file:

- [Message.vb](#)

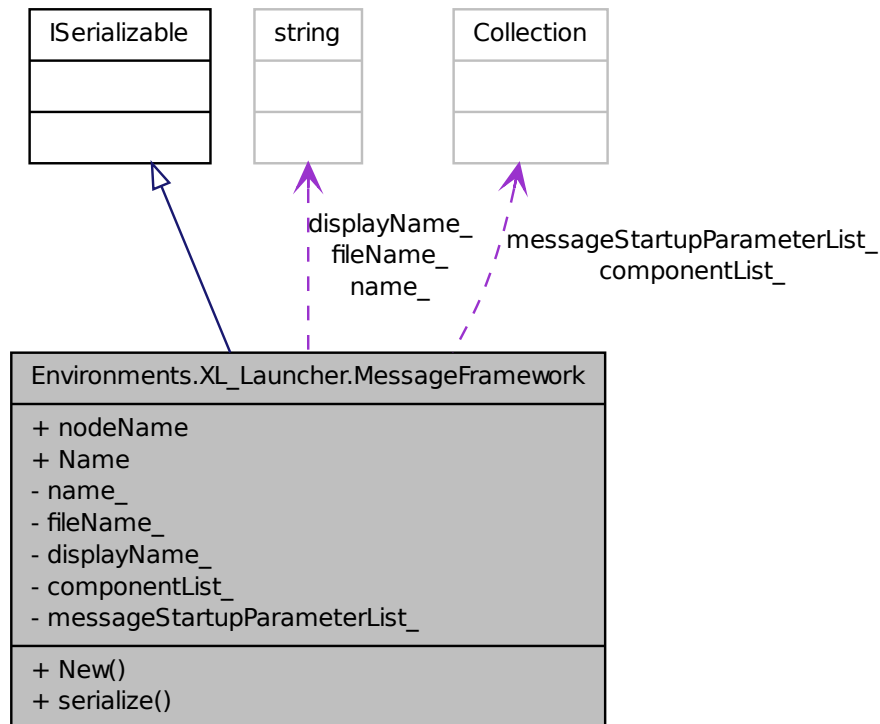
7.24 Environments.XL_Launcher.MessageFramework Class Reference

Take a [Framework](#) object and generate the relevant XML for the session file.

Inheritance diagram for Environments.XL_Launcher.MessageFramework:



Collaboration diagram for Environments.XL_Launcher.MessageFramework:



Public Member Functions

- void [New](#) ([Framework](#) f)
- void [serialize](#) (ref ISerializer serializer, int versionNumber)

Properties

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

7.24.1 Detailed Description

Take a [Framework](#) object and generate the relevant XML for the session file.

7.24.2 Member Function Documentation

7.24.2.1 void Environments.XL_Launcher.MessageFramework.New (Framework *f*)

Initialization

7.24.2.2 void Environments.XL_Launcher.MessageFramework.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements ISerializable.serialize

7.24.3 Property Documentation

7.24.3.1 string Environments.XL_Launcher.MessageFramework.Name [get, set]

Implements ISerializable.Name

7.24.3.2 string Environments.XL_Launcher.MessageFramework.nodeName [get]

Properties Implements ISerializable.nodeName

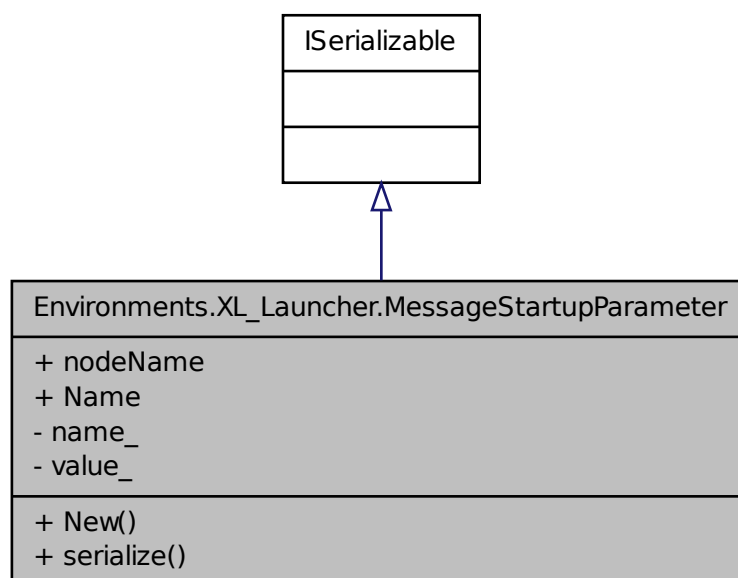
The documentation for this class was generated from the following file:

- [MessageFramework.vb](#)

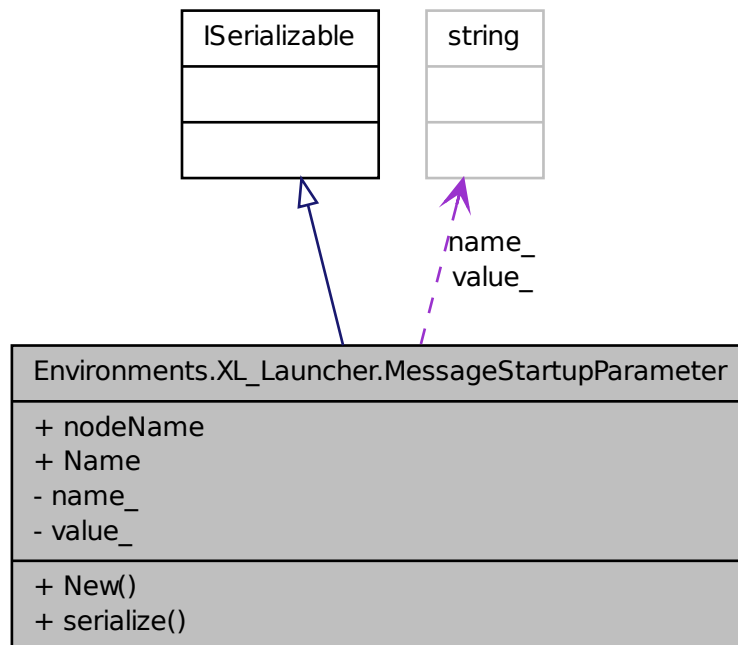
7.25 Environments.XL_Launcher.MessageStartupParameter Class Reference

Take a Startup Parameter object and generate the relevant XML for the session file.

Inheritance diagram for Environments.XL_Launcher.MessageStartupParameter:



Collaboration diagram for Environments.XL_Launcher.MessageStartupParameter:



Public Member Functions

- void [New](#) ([StartupParameter](#) sp)
- void [serialize](#) (ref ISerializer serializer, int versionNumber)

Properties

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

7.25.1 Detailed Description

Take a Startup Parameter object and generate the relevant XML for the session file.

7.25.2 Member Function Documentation

7.25.2.1 void Environments.XL_Launcher.MessageStartupParameter.New ([StartupParameter](#) *sp*)

Initialization

7.25.2.2 void Environments.XL_Launcher.MessageStartupParameter.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements ISerializable.serialize

7.25.3 Property Documentation

7.25.3.1 string Environments.XL_Launcher.MessageStartupParameter.Name [get, set]

Implements ISerializable.Name

7.25.3.2 string Environments.XL_Launcher.MessageStartupParameter.nodeName [get]

Properties Implements ISerializable.nodeName

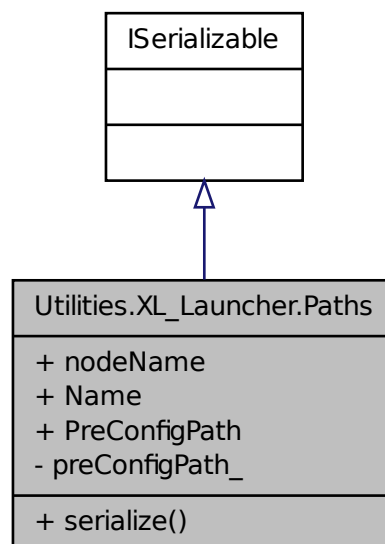
The documentation for this class was generated from the following file:

- [MessageStartupParameter.vb](#)

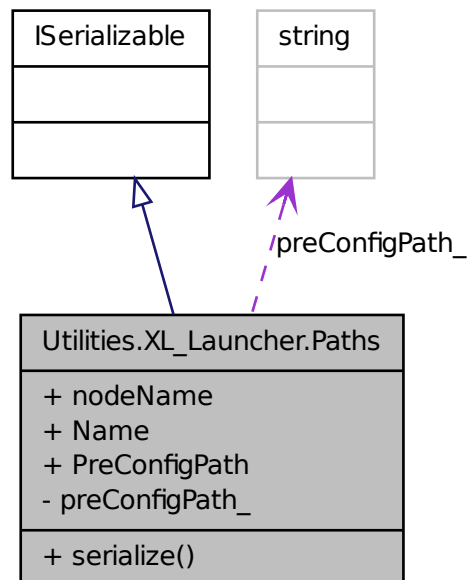
7.26 Utilities.XL_Launcher.Paths Class Reference

Object to encapsulate the paths.xml file which is delivered by ClickOnce and is used to specify the location of the Pre Configured directory.

Inheritance diagram for Utilities.XL_Launcher.Paths:



Collaboration diagram for Utilities.XL_Launcher.Paths:



Public Member Functions

- void [serialize](#) (ref ISerializer serializer, int versionNumber)

Properties

- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string [PreConfigPath](#) [get]

7.26.1 Detailed Description

Object to encapsulate the paths.xml file which is delivered by ClickOnce and is used to specify the location of the Pre Configured directory.

7.26.2 Member Function Documentation

7.26.2.1 void Utilities.XL_Launcher.Paths.serialize (ref ISerializer *serializer*, int *versionNumber*)

Implements ISerializable.serialize

7.26.3 Property Documentation

7.26.3.1 string Utilities.XL_Launcher.Paths.Name [get, set]

Implements ISerializable.Name

7.26.3.2 string Utilities.XL_Launcher.Paths.nodeName [get]

Implements ISerializable.nodeName

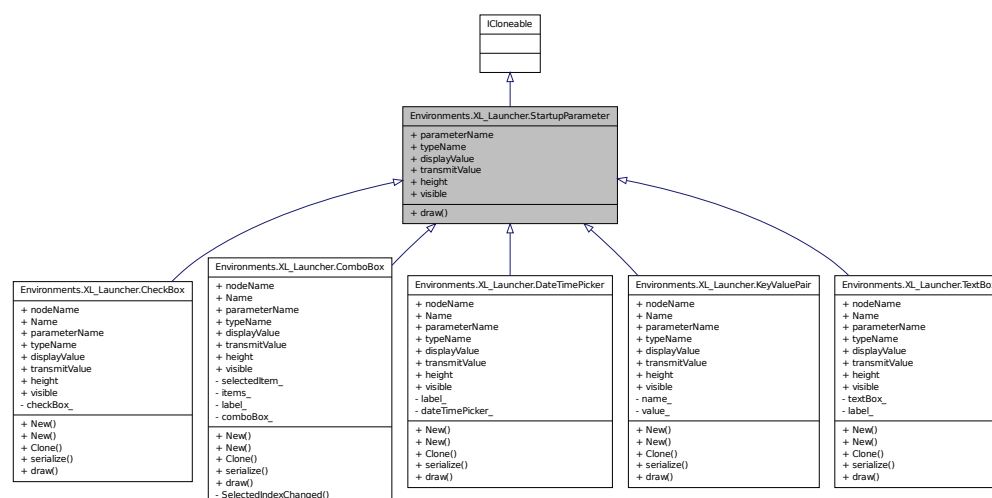
The documentation for this class was generated from the following file:

- [Paths.vb](#)

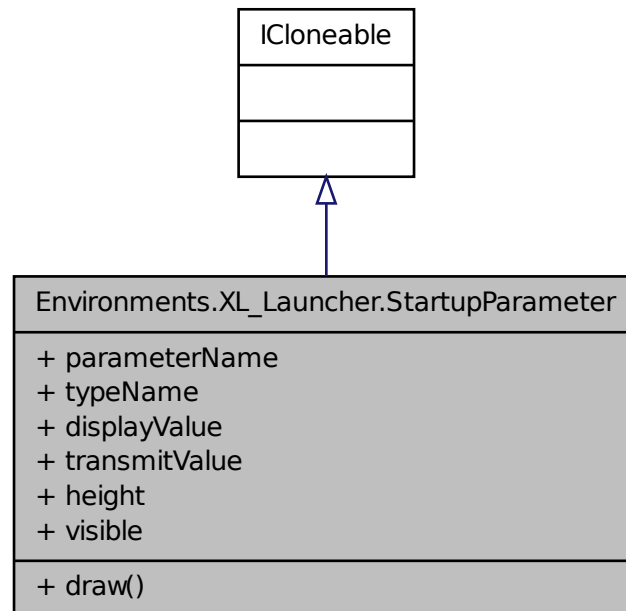
7.27 Environments.XL_Launcher.StartupParameter Interface Reference

A Key-Value pair. The [StartupParameter](#) encapsulates some kind of control (e.g. [TextBox](#), [DatePicker](#)) which is displayed in the UI in order to prompt the user for the corresponding data. Once collected the data is transmitted to Excel in the session file to be consumed by Launcher.xla.

Inheritance diagram for Environments.XL_Launcher.StartupParameter:



Collaboration diagram for Environments.XL_Launcher.StartupParameter:



Public Member Functions

- void **draw** (ref System.Windows.Forms.Control.ControlCollection c, int y)

Properties

- string **parameterName** [get]
- string **typeName** [get]
- object **displayValue** [get, set]
- object **transmitValue** [get]
- int **height** [get]
- bool **visible** [get]

7.27.1 Detailed Description

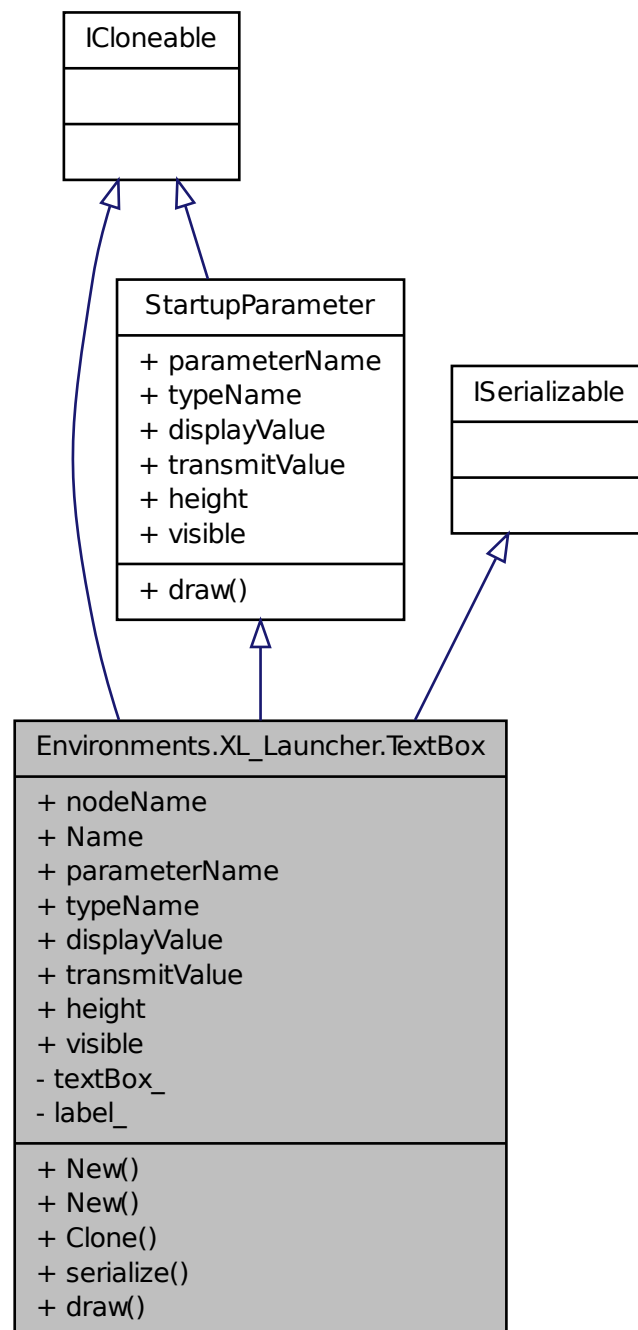
A Key-Value pair. The [StartupParameter](#) encapsulates some kind of control (e.g. [TextBox](#), [DatePicker](#)) which is displayed in the UI in order to prompt the user for the corresponding data. Once collected the data is transmitted to Excel in the session file to be consumed by `Launcher.xla`.

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

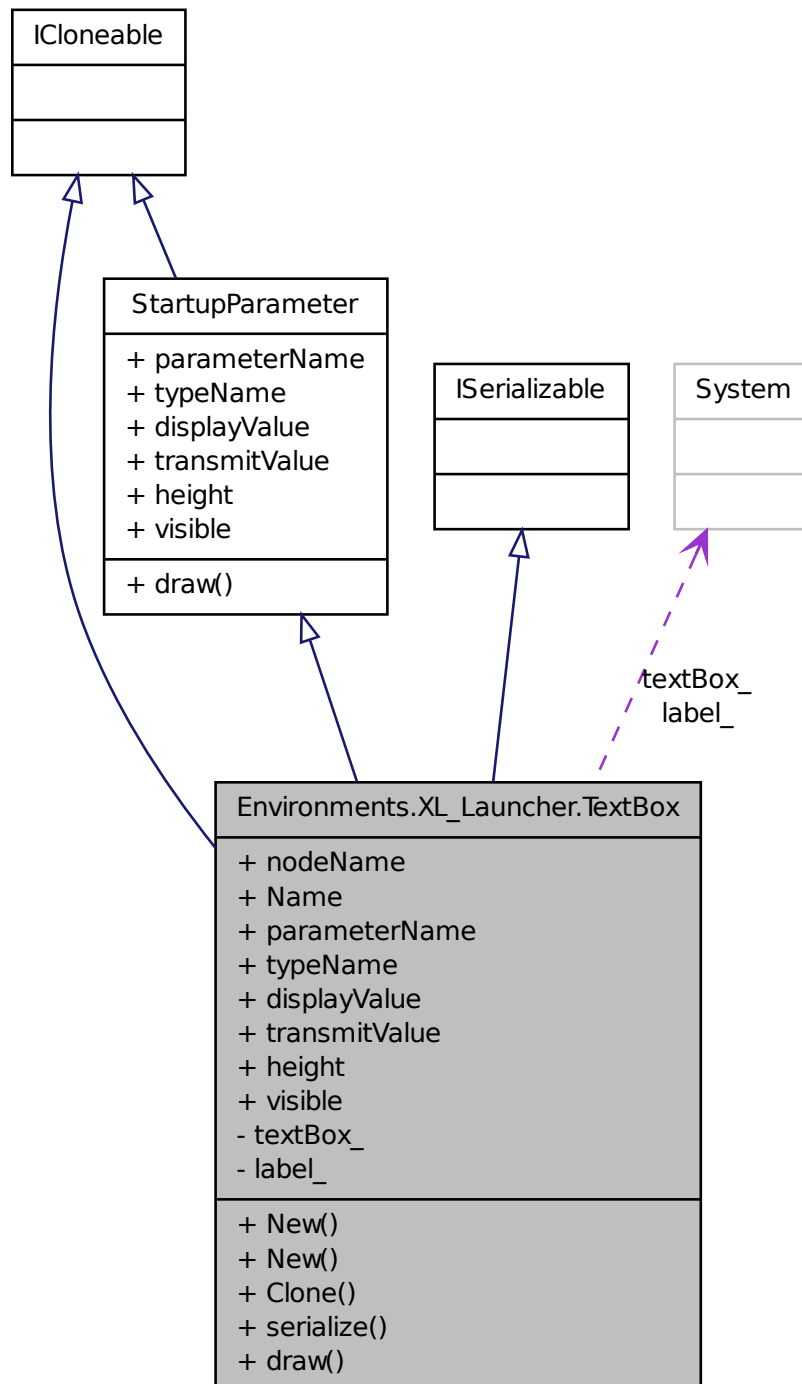
- [StartupParameter.vb](#)

7.28 Environments.XL_Launcher.TextBox Class Reference

Inheritance diagram for Environments.XL_Launcher.TextBox:



Collaboration diagram for Environments.XL_Launcher.TextBox:



Public Member Functions

- void [New](#) ()
- void [New](#) (string label, string text, bool enabled)
- object [Clone](#) ()
- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- void [draw](#) (ref System.Windows.Forms.Control.ControlCollection c, int y)

Properties

- string [nodeName](#) [get]
- string [Name](#) [get, set]
- string [parameterName](#) [get]
- string [typeName](#) [get]
- object [displayValue](#) [get, set]
- object [transmitValue](#) [get]
- int [height](#) [get]
- bool [visible](#) [get]

7.28.1 Member Function Documentation

7.28.1.1 object Environments.XL_Launcher.TextBox.Clone ()

[ICloneable Interface](#) Implements [ICloneable.Clone](#)

7.28.1.2 void Environments.XL_Launcher.TextBox.draw (ref System.Windows.Forms.Control.ControlCollection c, int y)

[StartupParameter Interface](#) Implements [StartupParameter.draw](#)

Implements [Environments.XL_Launcher.StartupParameter](#).

7.28.1.3 void Environments.XL_Launcher.TextBox.New ()

Initialization

7.28.1.4 void Environments.XL_Launcher.TextBox.serialize (ref ISerializer *serializer*, int *versionNumber*)

Serializable [Interface](#) Implements [ISerializable.serialize](#)

7.28.2 Property Documentation

7.28.2.1 object Environments.XL_Launcher.TextBox.displayValue [get, set]

Implements [StartupParameter.displayValue](#)

Implements [Environments.XL_Launcher.StartupParameter](#).

7.28.2.2 int Environments.XL_Launcher.TextBox.height [get]

Implements StartupParameter.height

Implements [Environments.XL_Launcher.StartupParameter](#).

7.28.2.3 string Environments.XL_Launcher.TextBox.Name [get, set]

Implements ISerializable.Name

7.28.2.4 string Environments.XL_Launcher.TextBox.nodeName [get]

Properties Implements ISerializable.nodeName

7.28.2.5 string Environments.XL_Launcher.TextBox.parameterName [get]

Implements StartupParameter.parameterName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.28.2.6 object Environments.XL_Launcher.TextBox.transmitValue [get]

Implements StartupParameter.transmitValue

Implements [Environments.XL_Launcher.StartupParameter](#).

7.28.2.7 string Environments.XL_Launcher.TextBox.typeName [get]

Implements StartupParameter.typeName

Implements [Environments.XL_Launcher.StartupParameter](#).

7.28.2.8 bool Environments.XL_Launcher.TextBox.visible [get]

Implements StartupParameter.visible

Implements [Environments.XL_Launcher.StartupParameter](#).

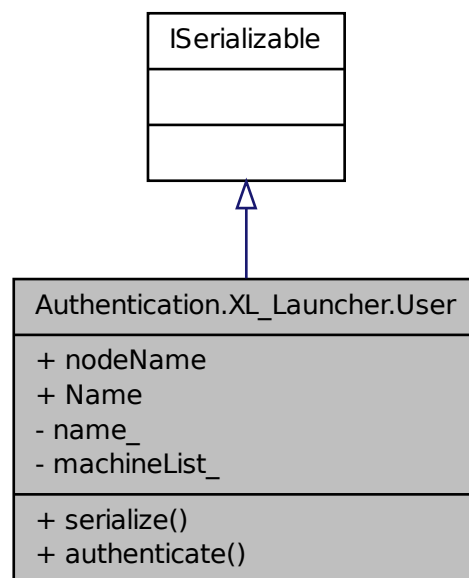
The documentation for this class was generated from the following file:

- [StartupParameter.vb](#)

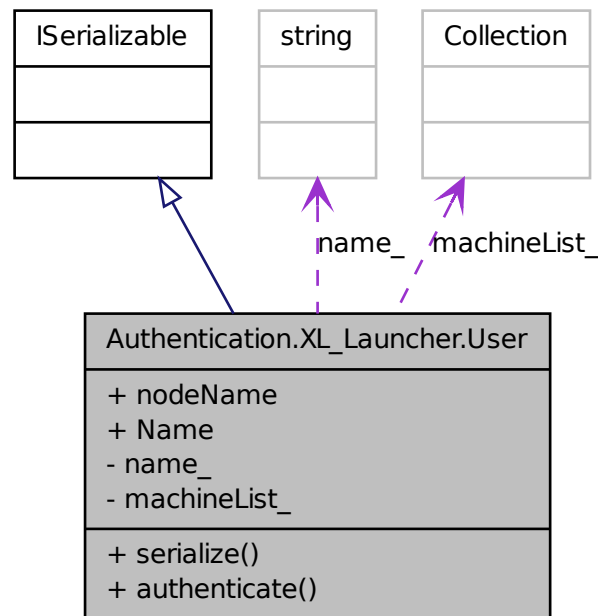
7.29 Authentication.XL_Launcher.User Class Reference

Encapsulate the identity of the user under which the current instance of XL-Launcher is running. Used for authentication.

Inheritance diagram for Authentication.XL_Launcher.User:



Collaboration diagram for Authentication.XL_Launcher.User:



Public Member Functions

- void [serialize](#) (ref ISerializer serializer, int versionNumber)
- bool **authenticate** (string userName, string machineName)

Properties

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

7.29.1 Detailed Description

Encapsulate the identity of the user under which the current instance of XL-Launcher is running. Used for authentication.

7.29.2 Member Function Documentation

7.29.2.1 void Authentication.XL_Launcher.User.serialize (ref ISerializer *serializer*, int *versionNumber*)

Implements ISerializable.serialize

7.29.3 Property Documentation

7.29.3.1 string Authentication.XL_Launcher.UserName [get, set]

Implements ISerializable.Name

7.29.3.2 string Authentication.XL_Launcher.User.nodeName [get]

Implements ISerializable.nodeName

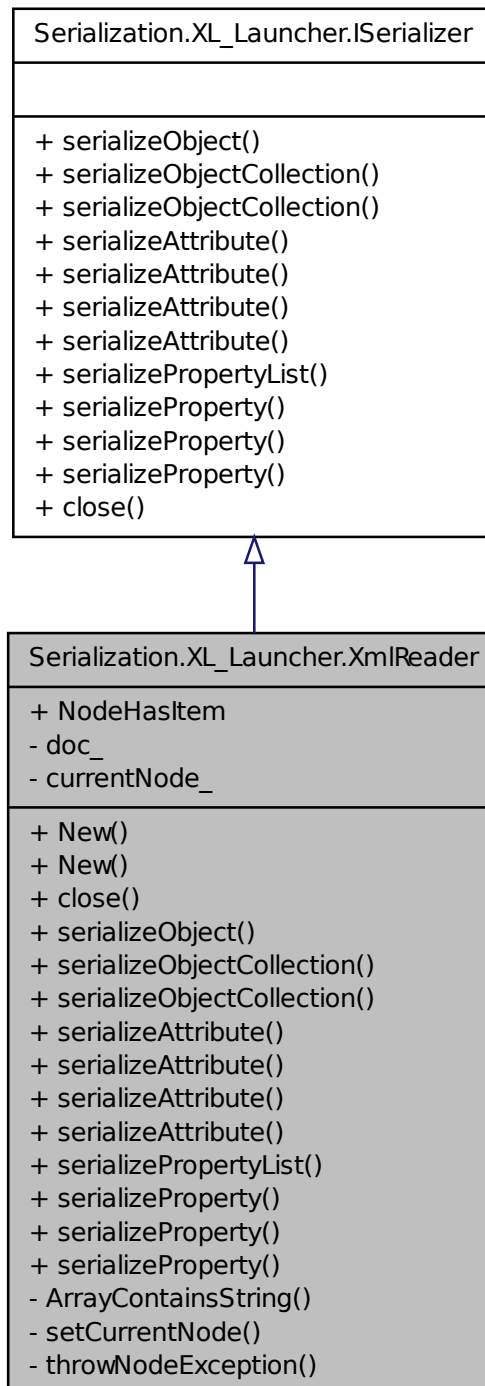
The documentation for this class was generated from the following file:

- [User.vb](#)

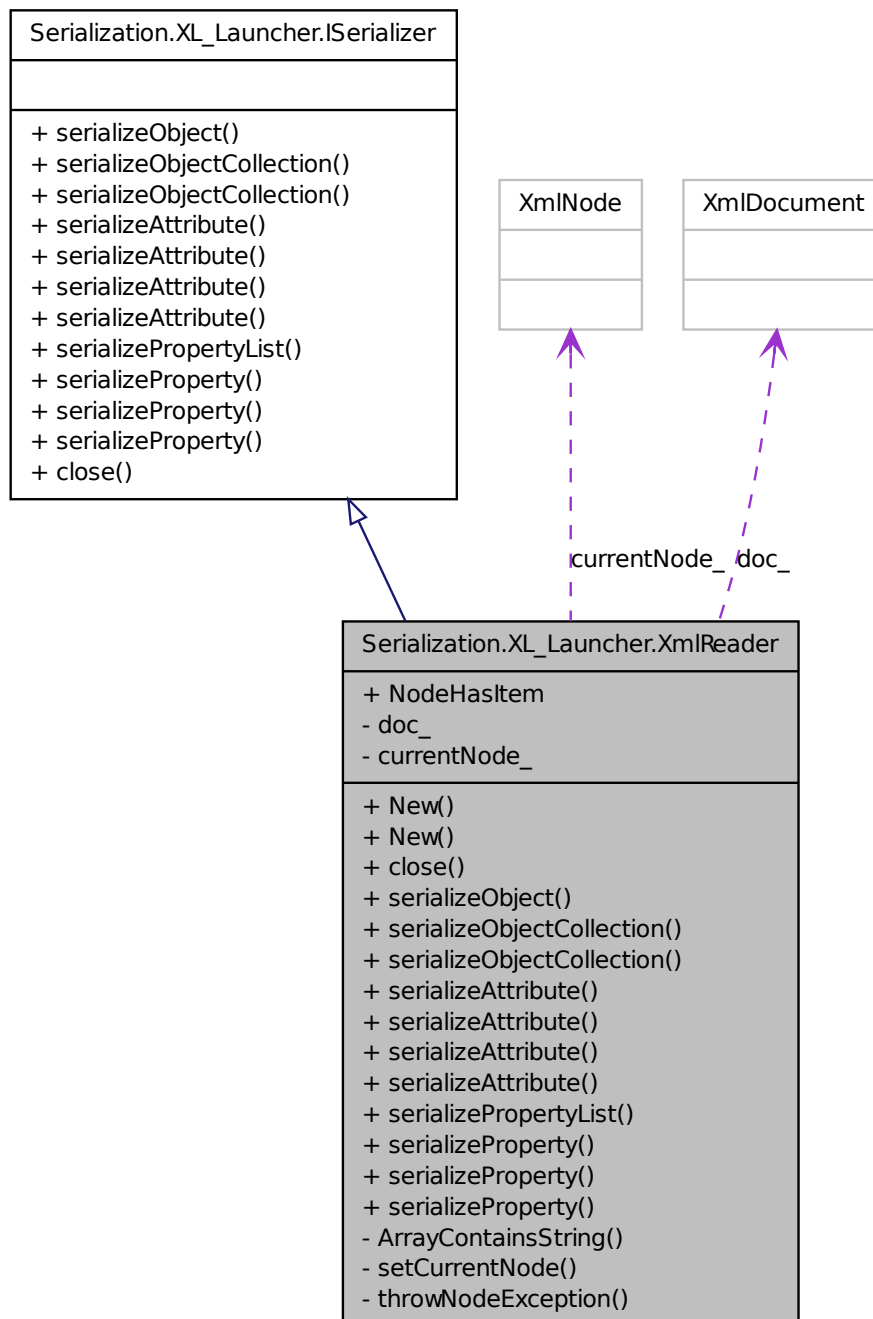
7.30 Serialization.XL_Launcher.XmlReader Class Reference

A concrete instance of an [ISerializer](#) for loading an XML stream.

Inheritance diagram for Serialization.XL_Launcher.XmlReader:



Collaboration diagram for Serialization.XL_Launcher.XmlReader:



Public Member Functions

- void [New](#) (string path, string rootNodeName)
- void **New** (string path)
- void [close](#) ()
- void [serializeObject](#) (ref [ISerializable](#) serializable, string className, int versionNumber)
- void [serializeObjectCollection](#) (ref Collection serializableCollection, string className, int versionNumber, bool nodeRequired=True, bool autoName=False, string collectionName=Nothing, bool descend=True)
- void [serializeObjectCollection](#) (ref Collection serializableCollection, string nodeName, string[] classNames, int versionNumber, bool nodeRequired=True, bool autoName=False, string collectionName=Nothing, bool descend=True)
- void [serializeAttribute](#) (ref string attr, string tag, string defaultValue=Nothing)
- void [serializeAttribute](#) (ref bool attr, string tag, string defaultValue=Nothing)
- void [serializeAttribute](#) (ref int attr, string tag)
- void [serializeAttribute](#) (ref DateTime attr, string tag)
- void [serializePropertyList](#) (ref string[] attr, string listTag, string itemTag)
- Overloads void **serializeProperty** (ref string prop, string tag, string defaultValue=Nothing)
- Overloads void [serializeProperty](#) (ref bool prop, string tag, string defaultValue=Nothing)
- Overloads void [serializeProperty](#) (ref int prop, string tag, string defaultValue=Nothing)

7.30.1 Detailed Description

A concrete instance of an [ISerializer](#) for loading an XML stream.

7.30.2 Member Function Documentation

7.30.2.1 void Serialization.XL_Launcher.XmlReader.close ()

Implements [ISerializer.close](#)

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.2 void Serialization.XL_Launcher.XmlReader.New (string path, string rootNodeName)

initialization/finalization

7.30.2.3 void Serialization.XL_Launcher.XmlReader.serializeAttribute (ref bool attr, string tag, string defaultValue = *Nothing*)

Implements [ISerializer.serializeAttribute](#)

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.4 void Serialization.XL_Launcher.XmlReader.serializeAttribute (ref int attr, string tag)

Implements [ISerializer.serializeAttribute](#)

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.5 void Serialization.XL_Launcher.XmlReader.serializeAttribute (ref DateTime attr, string tag)

Implements `ISerializer.serializeAttribute`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.6 void Serialization.XL_Launcher.XmlReader.serializeAttribute (ref string attr, string tag, string defaultValue = *Nothing*)

Implements `ISerializer.serializeAttribute`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.7 void Serialization.XL_Launcher.XmlReader.serializeObject (ref ISerializable serializable, string className, int versionNumber)

public serializer interface Implements `ISerializer.serializeObject`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.8 void Serialization.XL_Launcher.XmlReader.serializeObjectCollection (ref Collection serializableCollection, string className, int versionNumber, bool nodeRequired = *True*, bool autoName = *False*, string collectionName = *Nothing*, bool descend = *True*)

Implements `ISerializer.serializeObjectCollection`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.9 void Serialization.XL_Launcher.XmlReader.serializeObjectCollection (ref Collection serializableCollection, string nodeName, string[] classNames, int versionNumber, bool nodeRequired = *True*, bool autoName = *False*, string collectionName = *Nothing*, bool descend = *True*)

Implements `ISerializer.serializeObjectCollection`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.10 Overloads void Serialization.XL_Launcher.XmlReader.serializeProperty (ref bool prop, string tag, string defaultValue = *Nothing*)

Implements `ISerializer.serializeProperty`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.11 Overloads void Serialization.XL_Launcher.XmlReader.serializeProperty (ref int prop, string tag, string defaultValue = *Nothing*)

Implements `ISerializer.serializeProperty`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.30.2.12 void `Serialization.XL_Launcher.XmlReader.serializePropertyList` (ref string[] *attr*,
string *listTag*, string *itemTag*)

Implements `ISerializer.serializePropertyList`

Implements [Serialization.XL_Launcher.ISerializer](#).

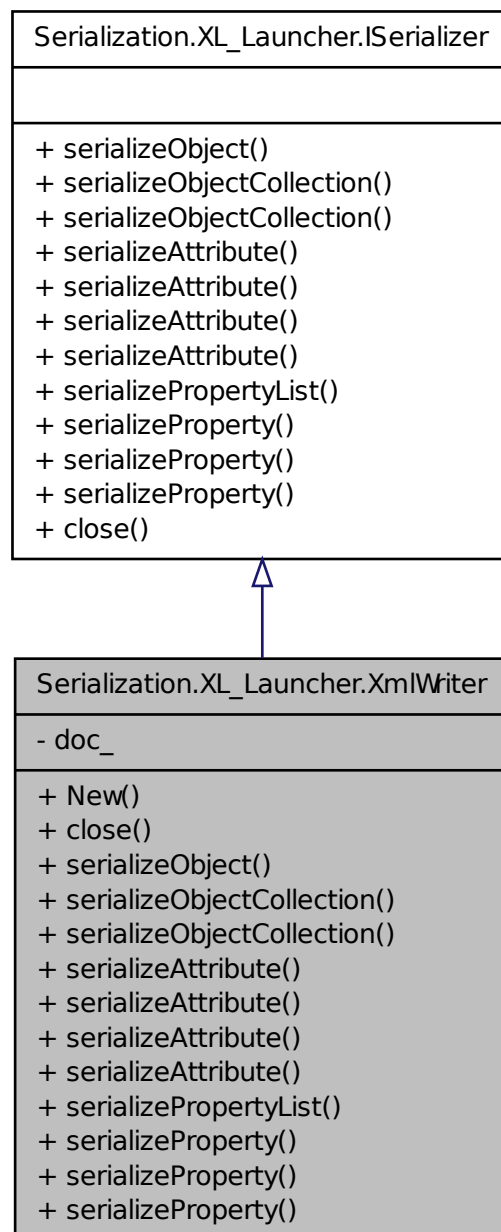
The documentation for this class was generated from the following file:

- [XmlReader.vb](#)

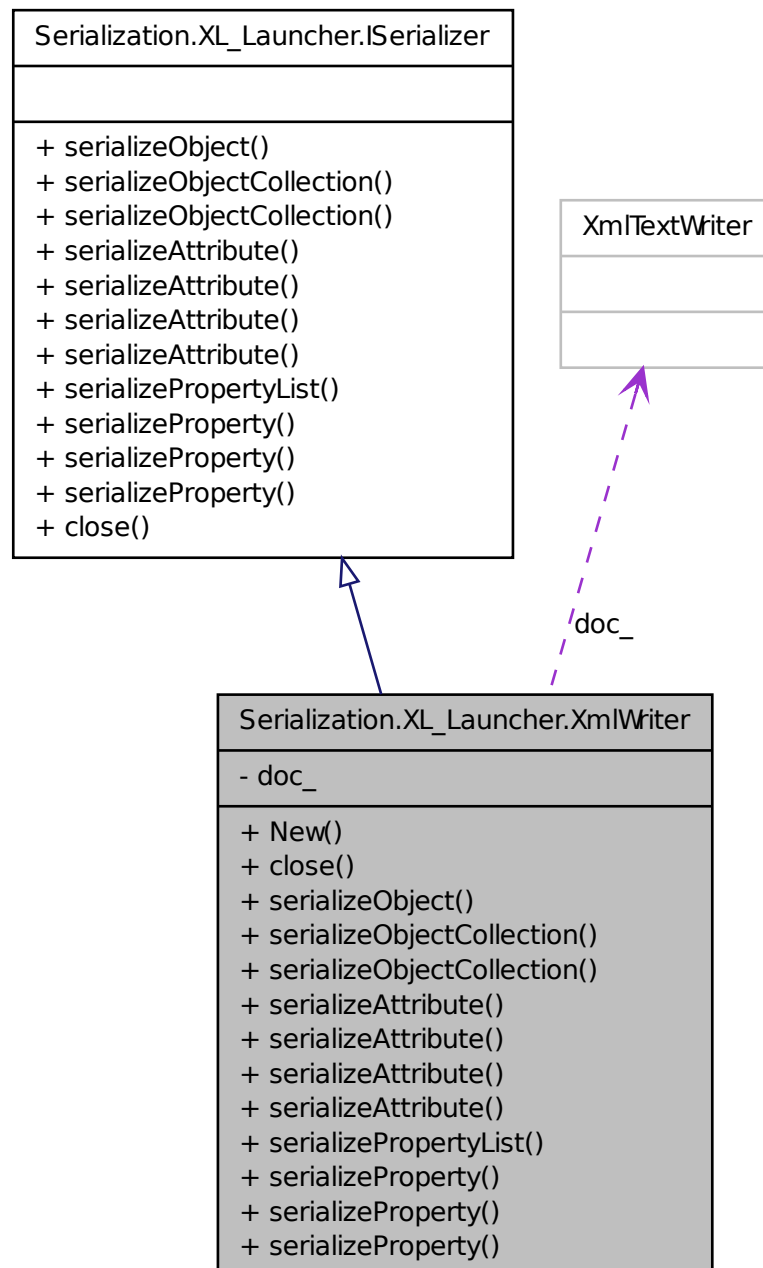
7.31 `Serialization.XL_Launcher.XmlWriter` Class Reference

A concrete instance of an [ISerializer](#) for generating an XML stream.

Inheritance diagram for Serialization.XL_Launcher.XmlWriter:



Collaboration diagram for Serialization.XL_Launcher.XmlWriter:



Public Member Functions

- void [New](#) (string path)
- void [close](#) ()
- void [serializeObject](#) (ref [ISerializable](#) serializable, string className, int versionNumber)
- void [serializeObjectCollection](#) (ref Collection serializableCollection, string className, int versionNumber, bool nodeRequired=True, bool autoName=False, string collectionName=Nothing, bool descend=True)
- void [serializeObjectCollection](#) (ref Collection serializableCollection, string nodeName, string[] classNames, int versionNumber, bool nodeRequired=True, bool autoName=False, string collectionName=Nothing, bool descend=True)
- void [serializeAttribute](#) (ref string attr, string tag, string defaultValue=Nothing)
- void [serializeAttribute](#) (ref bool attr, string tag, string defaultValue=Nothing)
- void [serializeAttribute](#) (ref int attr, string tag)
- void [serializeAttribute](#) (ref DateTime attr, string tag)
- void [serializePropertyList](#) (ref string[] attr, string listTag, string itemTag)
- Overloads void [serializeProperty](#) (ref string prop, string tag, string defaultValue=Nothing)
- Overloads void [serializeProperty](#) (ref bool prop, string tag, string defaultValue=Nothing)
- Overloads void [serializeProperty](#) (ref int prop, string tag, string defaultValue=Nothing)

7.31.1 Detailed Description

A concrete instance of an [ISerializer](#) for generating an XML stream.

7.31.2 Member Function Documentation

7.31.2.1 void Serialization.XL_Launcher.XmlWriter.close ()

Implements [ISerializer.close](#)

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.2 void Serialization.XL_Launcher.XmlWriter.New (string *path*)

initialization/finalization

7.31.2.3 void Serialization.XL_Launcher.XmlWriter.serializeAttribute (ref int *attr*, string *tag*)

Implements [ISerializer.serializeAttribute](#)

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.4 void Serialization.XL_Launcher.XmlWriter.serializeAttribute (ref DateTime *attr*, string *tag*)

Implements [ISerializer.serializeAttribute](#)

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.5 void `Serialization.XL_Launcher.XmlWriter.serializeAttribute` (ref string *attr*, string *tag*, string *defaultValue* = *Nothing*)

Implements `ISerializer.serializeAttribute`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.6 void `Serialization.XL_Launcher.XmlWriter.serializeAttribute` (ref bool *attr*, string *tag*, string *defaultValue* = *Nothing*)

Implements `ISerializer.serializeAttribute`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.7 void `Serialization.XL_Launcher.XmlWriter.serializeObject` (ref `ISerializable` *serializable*, string *className*, int *versionNumber*)

public serializer interface Implements `ISerializer.serializeObject`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.8 void `Serialization.XL_Launcher.XmlWriter.serializeObjectCollection` (ref `Collection` *serializableCollection*, string *className*, int *versionNumber*, bool *nodeRequired* = *True*, bool *autoName* = *False*, string *collectionName* = *Nothing*, bool *descend* = *True*)

Implements `ISerializer.serializeObjectCollection`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.9 void `Serialization.XL_Launcher.XmlWriter.serializeObjectCollection` (ref `Collection` *serializableCollection*, string *nodeName*, string[] *classNames*, int *versionNumber*, bool *nodeRequired* = *True*, bool *autoName* = *False*, string *collectionName* = *Nothing*, bool *descend* = *True*)

Implements `ISerializer.serializeObjectCollection`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.10 Overloads void `Serialization.XL_Launcher.XmlWriter.serializeProperty` (ref int *prop*, string *tag*, string *defaultValue* = *Nothing*)

Implements `ISerializer.serializeProperty`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.11 Overloads void `Serialization.XL_Launcher.XmlWriter.serializeProperty` (ref bool *prop*, string *tag*, string *defaultValue* = *Nothing*)

Implements `ISerializer.serializeProperty`

Implements [Serialization.XL_Launcher.ISerializer](#).

7.31.2.12 void `Serialization.XL_Launcher.XmlWriter.serializePropertyList` (ref string[] *attr*,
string *listTag*, string *itemTag*)

Implements `ISerializer.serializePropertyList`

Implements [Serialization.XL_Launcher.ISerializer](#).

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

- [XmlWriter.vb](#)

Chapter 8

File Documentation

8.1 Authentication.vb File Reference

Classes

- class [Authentication.XL_Launcher.Authentication](#)

Encapsulate the functionality to serialize a stream of authentication data and the logic to determine whether the current user satisfies the given criteria for accessing the corresponding Environment.

Packages

- package [Authentication](#)
- package [Authentication.XL_Launcher](#)

8.1.1 Detailed Description

8.2 Component.vb File Reference

Classes

- class [Environments.XL_Launcher.Component](#)

An Addin or other object to be loaded into Excel.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.2.1 Detailed Description

8.3 Domain.vb File Reference

Classes

- class [Authentication.XL_Launcher.Domain](#)

Encapsulate the information relating to the domain to which the current user belongs. Used for authentication.

Packages

- package [Authentication](#)
- package [Authentication.XL_Launcher](#)

8.3.1 Detailed Description

8.4 Environment.vb File Reference

Classes

- class [Environments.XL_Launcher.Environment](#)

A collection of [Framework](#) objects comprising all of the resources to be loaded into a given instance of Excel.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.4.1 Detailed Description

8.5 EnvironmentList.vb File Reference

Classes

- class [Environments.XL_Launcher.EnvironmentList](#)

A collection of [Environment](#) objects. In practice the application uses two [EnvironmentList](#) objects, one for Pre Configured [Environments](#) and the other for User Configured [Environments](#). Each of these is displayed in a [ListBox](#) object in the main UI.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.5.1 Detailed Description

8.6 EnvironmentVariable.vb File Reference

Classes

- class [Environments.XL_Launcher.EnvironmentVariable](#)

An [Environment](#) Variable which is required by a given [Framework](#) and which is to be set by XL-Launcher within the subprocess in which Excel is spawned.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.6.1 Detailed Description

8.7 Errors.vb File Reference

Packages

- package [Utilities](#)
- package [Utilities.XL_Launcher](#)

Functions

- void [Utilities::XL_Launcher.displayError](#) (string errorMessage, MsgBoxStyle message-BoxStyle=MsgBoxStyle.OkOnly+MsgBoxStyle.Exclamation)
- void [Utilities::XL_Launcher.displayError](#) (string errorMessage, Exception ex, MsgBoxStyle messageBoxStyle=MsgBoxStyle.OkOnly+MsgBoxStyle.Exclamation)

Variables

- const string [Utilities::XL_Launcher.INFO_MESSAGE](#) = "XL-Launcher"
Central processing to be used for all run time errors which are thrown by the application.
- const string [Utilities::XL_Launcher.ERROR_MESSAGE](#) = "XL-Launcher Error"

8.7.1 Detailed Description

8.8 Factory.vb File Reference

Classes

- class [Serialization.XL_Launcher.Factory](#)
A Singleton utility for converting a type string into an instance of the corresponding object.

Packages

- package [Serialization](#)
- package [Serialization.XL_Launcher](#)

8.8.1 Detailed Description

8.9 FormMain.vb File Reference

Classes

- class [Interface.FormMain](#)

Packages

- package [Interface](#)

8.9.1 Detailed Description

8.10 FormMainAddins.vb File Reference

Classes

- class [Interface.FormMain](#)

Packages

- package [Interface](#)

8.10.1 Detailed Description

8.11 FormMainEnvironments.vb File Reference

Classes

- class [Interface.FormMain](#)

Packages

- package [Interface](#)

8.11.1 Detailed Description

8.12 FormMainVariables.vb File Reference

Classes

- class [Interface.FormMain](#)

Packages

- package [Interface](#)

8.12.1 Detailed Description

8.13 FormVariableEdit.vb File Reference

Classes

- class [Interface.FormVariableEdit](#)

Packages

- package [Interface](#)

8.13.1 Detailed Description

8.14 Framework.vb File Reference

Classes

- class [Environments.XL_Launcher.Framework](#)

A collection of Components (Addins) which together comprise an Excel VBA application.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.14.1 Detailed Description

8.15 GlobalAddin.vb File Reference

Classes

- class [Environments.XL_Launcher.GlobalAddin](#)
An Addin which is specific to an overall Excel session and not to any particular Excel VBA application, e.g. Reuters, Bloomberg, Oracle.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.15.1 Detailed Description

8.16 GroupBox.vb File Reference

Classes

- class [Environments.XL_Launcher.GroupBox](#)
Encapsulate a collection of Startup Parameter objects which are displayed together in the XL-Launcher UI within a single [GroupBox](#) control.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.16.1 Detailed Description

8.17 ISerializable.vb File Reference

Classes

- interface [Serialization.XL_Launcher.ISerializable](#)
Abstract interface for any object capable of being serialized.

Packages

- package [Serialization](#)
- package [Serialization.XL_Launcher](#)

8.17.1 Detailed Description

8.18 ISerializer.vb File Reference

Classes

- interface [Serialization.XL_Launcher.ISerializer](#)
Abstract interface for any object capable of reading or writing a stream.

Packages

- package [Serialization](#)
- package [Serialization.XL_Launcher](#)

8.18.1 Detailed Description

8.19 Machine.vb File Reference

Classes

- class [Authentication.XL_Launcher.Machine](#)
Encapsulate the information relating to the current machine on which this instance of XL-Launcher is running. Used for authentication.

Packages

- package [Authentication](#)
- package [Authentication.XL_Launcher](#)

8.19.1 Detailed Description

8.20 main.docs File Reference

8.20.1 Detailed Description

8.21 Message.vb File Reference

Classes

- class [Environments.XL_Launcher.Message](#)
Generate the XML for the session file.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.21.1 Detailed Description

8.22 MessageFramework.vb File Reference

Classes

- class [Environments.XL_Launcher.MessageFramework](#)
Take a [Framework](#) object and generate the relevant XML for the session file.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.22.1 Detailed Description

8.23 MessageStartupParameter.vb File Reference

Classes

- class [Environments.XL_Launcher.MessageStartupParameter](#)
Take a Startup Parameter object and generate the relevant XML for the session file.

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.23.1 Detailed Description

8.24 Paths.vb File Reference

Classes

- class [Utilities.XL_Launcher.Paths](#)
Object to encapsulate the paths.xml file which is delivered by ClickOnce and is used to specify the location of the Pre Configured directory.

Packages

- package [Utilities](#)
- package [Utilities.XL_Launcher](#)

8.24.1 Detailed Description

8.25 **Serialization.vb** File Reference

Packages

- package [Serialization](#)
- package [Serialization.XL_Launcher](#)

Functions

- object [Serialization::XL_Launcher.loadObject](#) (string xmlFile, string nodeName)
A collection of utilities relating to [Serialization](#).
- object **Serialization::XL_Launcher.loadObject** (string xmlFile, string rootNode, string nodeName)
- void **Serialization::XL_Launcher.saveObject** (string xmlFile, object o, string nodeName)

8.25.1 Detailed Description

8.26 **StartupParameter.vb** File Reference

Classes

- interface [Environments.XL_Launcher.StartupParameter](#)
A Key-Value pair. The [StartupParameter](#) encapsulates some kind of control (e.g. [TextBox](#), [DatePicker](#)) which is displayed in the UI in order to prompt the user for the corresponding data. Once collected the data is transmitted to Excel in the session file to be consumed by [Launcher.xla](#).
- class [Environments.XL_Launcher.KeyValuePair](#)
- class [Environments.XL_Launcher.CheckBox](#)
- class [Environments.XL_Launcher.TextBox](#)
- class [Environments.XL_Launcher.ComboBox](#)
- class [Environments.XL_Launcher.DateTimePicker](#)

Packages

- package [Environments](#)
- package [Environments.XL_Launcher](#)

8.26.1 Detailed Description

8.27 User.vb File Reference

Classes

- class [Authentication.XL_Launcher.User](#)

Encapsulate the identity of the user under which the current instance of XL-Launcher is running. Used for authentication.

Packages

- package [Authentication](#)
- package [Authentication.XL_Launcher](#)

8.27.1 Detailed Description

8.28 Utilities.vb File Reference

Classes

- struct [Utilities.AuthenticationParameters](#)

Packages

- package [Utilities](#)

Functions

- long [Utilities.GetCurrentProcessId](#) ()
- string [Utilities.deriveDefaultExcelPath](#) ()
- AuthenticationParameters [Utilities.deriveAuthenticationParameters](#) ()

Variables

- const string [Utilities.EXCEL_10_PATH](#) = "C:\Program Files\Microsoft Office\OFFICE10\EXCEL.EXE"

A collection of generic utility functions required by the XL-Launcher application.

- const string [Utilities.EXCEL_11_PATH](#) = "C:\Program Files\Microsoft Office\OFFICE11\EXCEL.EXE"
- const string [Utilities.EXCEL_12_PATH](#) = "C:\Program Files\Microsoft Office\OFFICE12\EXCEL.EXE"
- const int [Utilities.THIS_VERSION](#) = 0

8.28.1 Detailed Description

8.29 XmlReader.vb File Reference

Classes

- class [Serialization.XL_Launcher.XmlReader](#)
A concrete instance of an [ISerializer](#) for loading an XML stream.

Packages

- package [Serialization](#)
- package [Serialization.XL_Launcher](#)

8.29.1 Detailed Description

8.30 XmlWriter.vb File Reference

Classes

- class [Serialization.XL_Launcher.XmlWriter](#)
A concrete instance of an [ISerializer](#) for generating an XML stream.

Packages

- package [Serialization](#)
- package [Serialization.XL_Launcher](#)

8.30.1 Detailed Description