XL-Launcher

Generated by Doxygen 1.7.1

Sat Oct 29 2011 22:12:48

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Chapter 1

XL-Launcher

1.1 Introduction

XL-Launcher is a front end to Excel.

Author

Eric Ehlers

Version

1.1.0

Date

21.10.2011

Chapter 2

Namespace Index

2.1 Package List

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

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Authentication.XL_Launcher 11
Environments 11
Environments.XL_Launcher 12
Interface 13
Serialization 13
Serialization.XL_Launcher 13
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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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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 Excecl 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
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Environments.XL_Launcher.MessageStartupParameter (Take a Startup Parameter object and generate the relevant XML for the session file) 76
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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StartupParameter.vb 109
User.vb 110
Utilities.vb 110
XmlReader.vb 111
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 Excecl 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 messageBoxStyle=MsgBoxStyle.OkOnly+MsgBoxStyle.Exclamation)
- void **displayError** (string errorMessage, Exception ex, MsgBoxStyle messageBoxStyle=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"

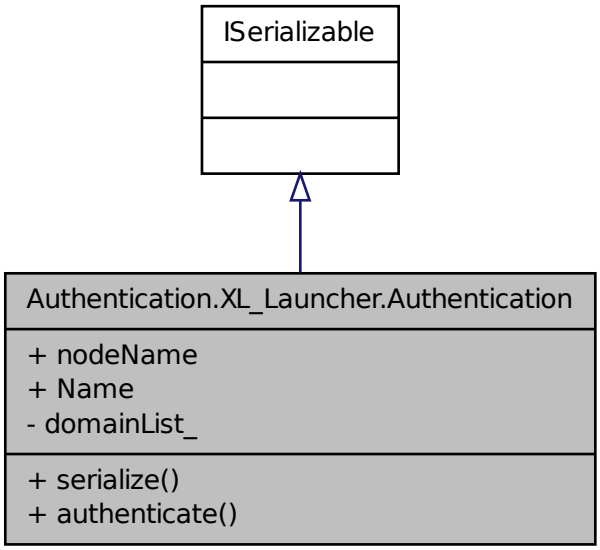
Chapter 7

Class Documentation

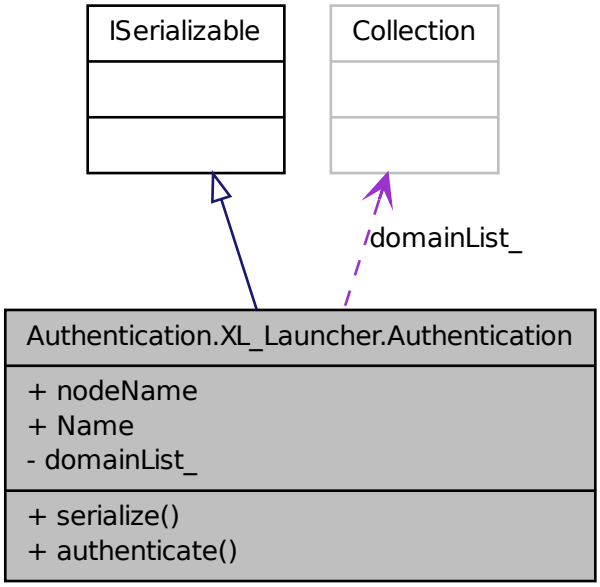
7.1 Authentication.XL_Launcher.Authentication Class Reference

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

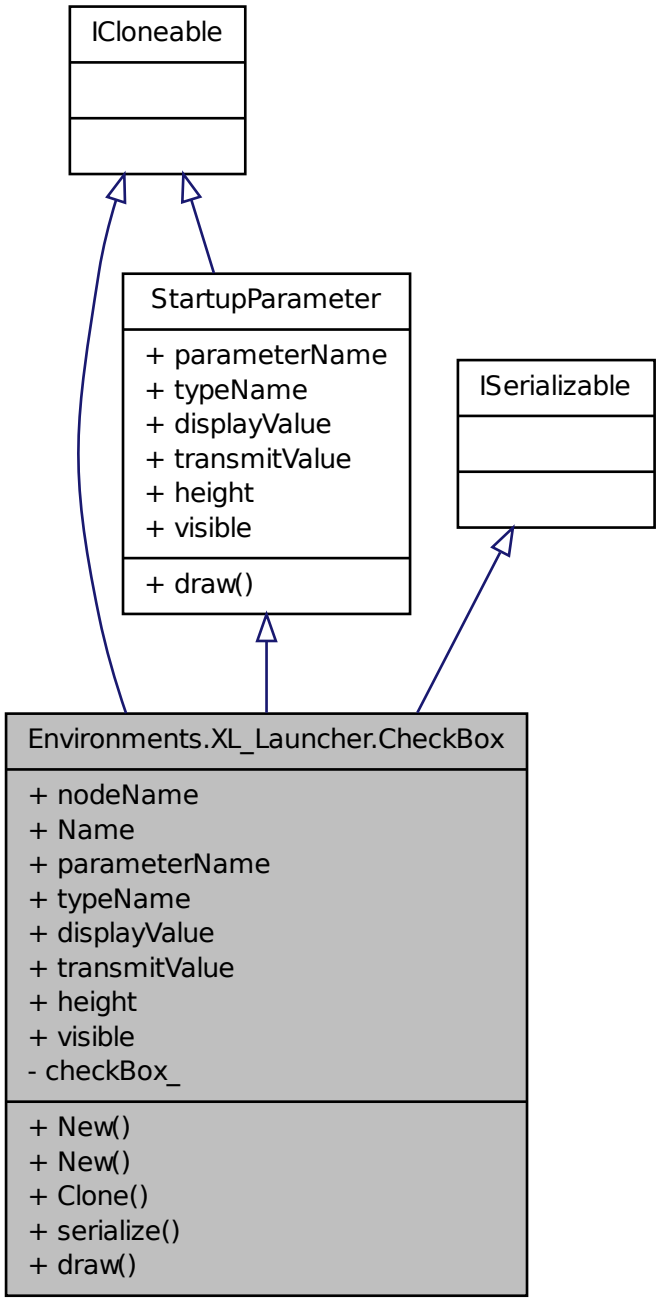
7.2 Utilities.AuthenticationParameters Struct Reference

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

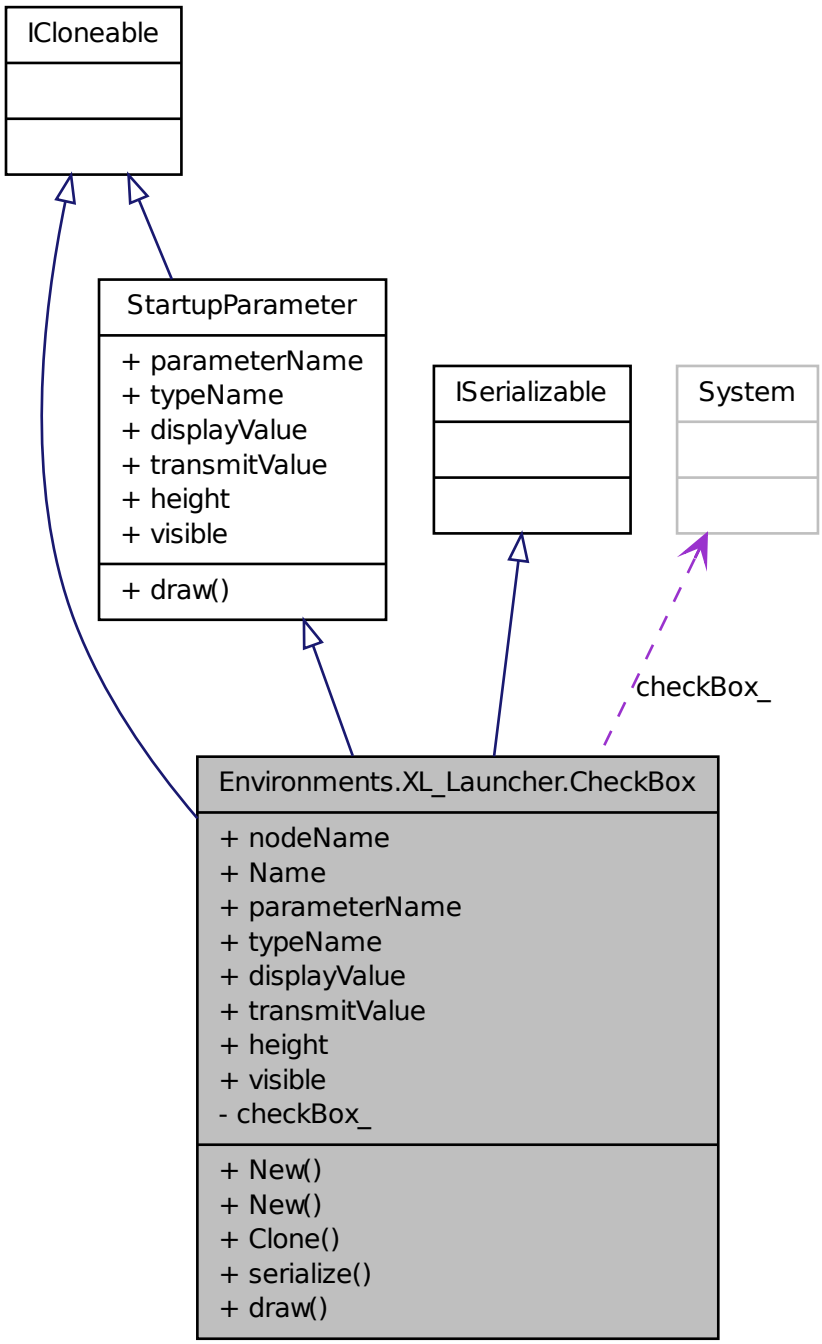
- Utilities.vb

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

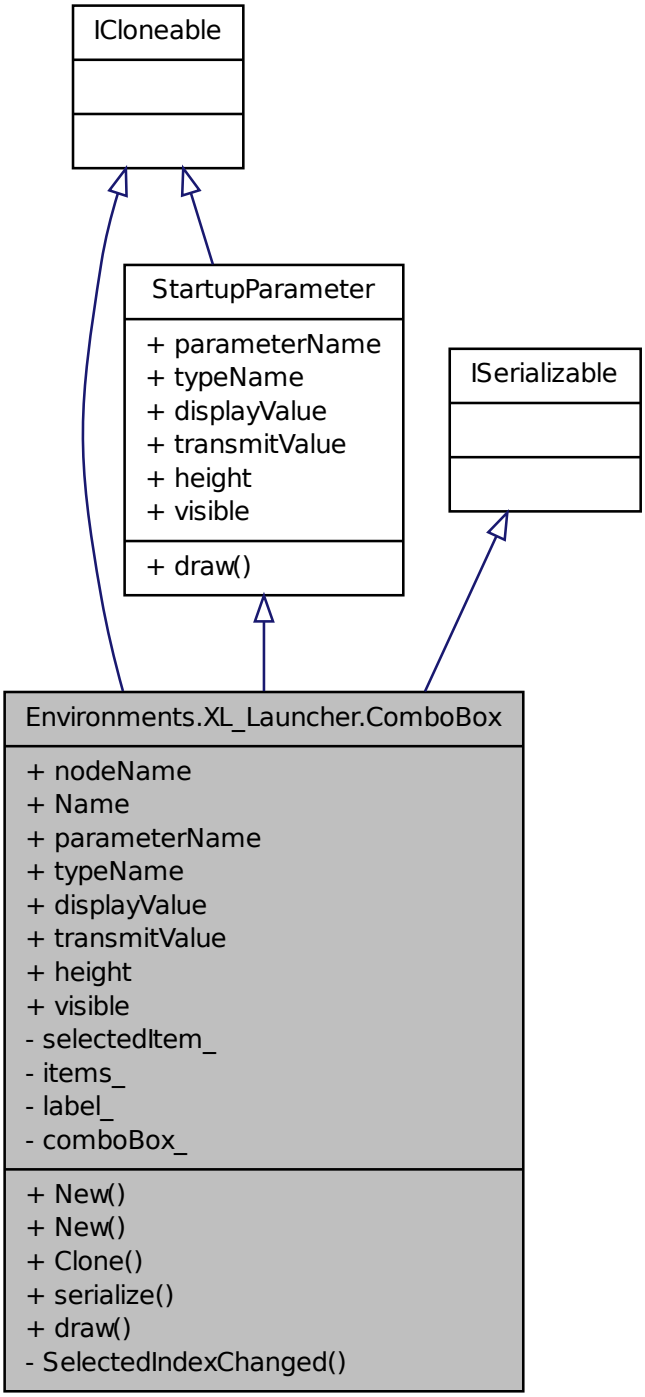
Implements Environments.XL_Launcher.StartupParameter.

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

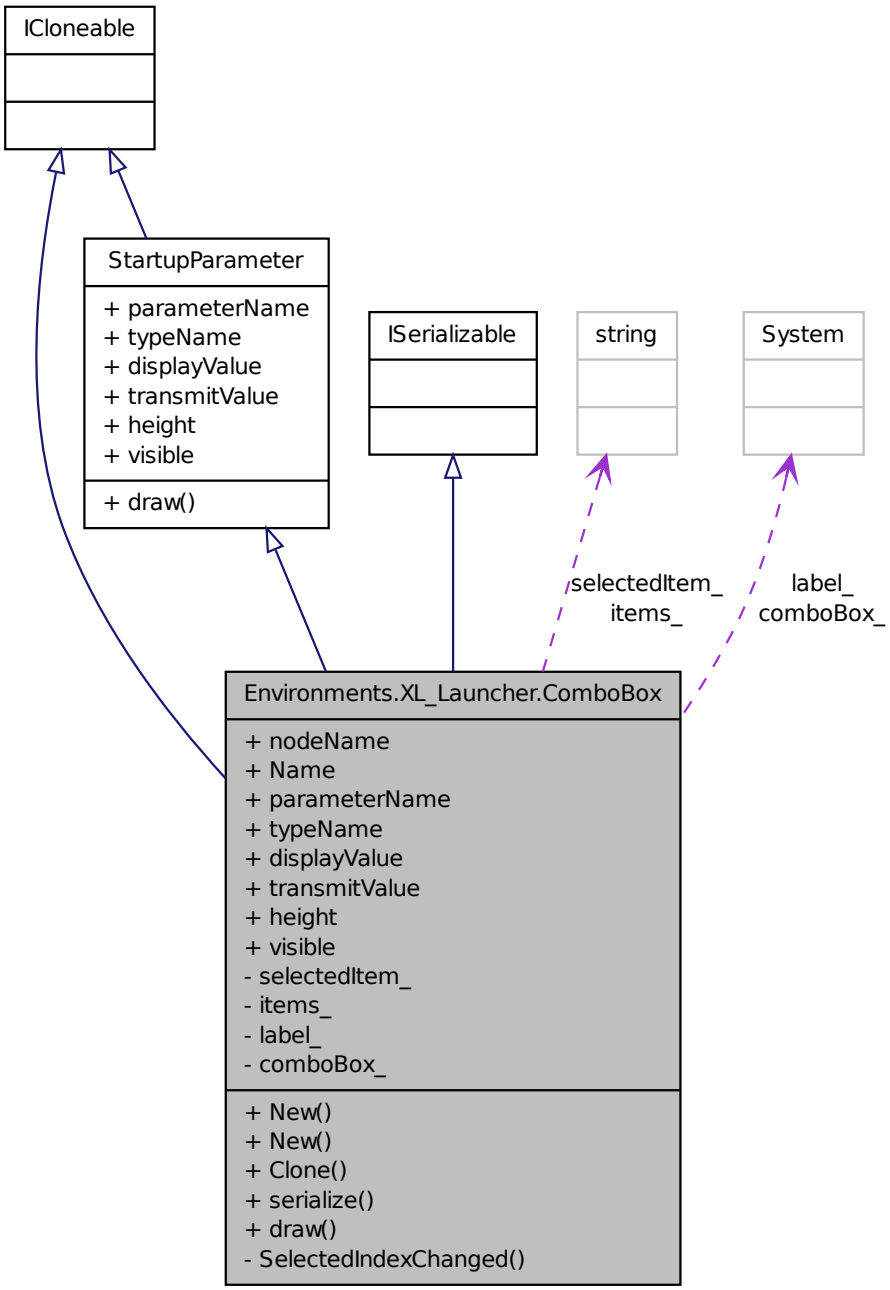
- StartupParameter.vb

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.

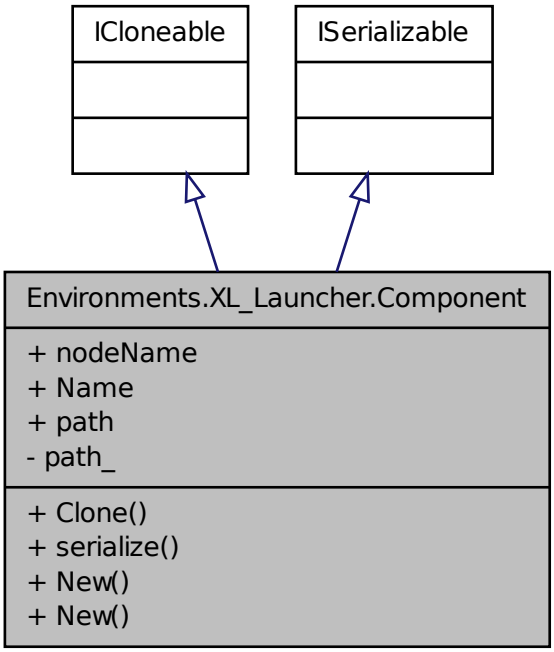
The documentation for this class was generated from the following file:

- StartupParameter.vb

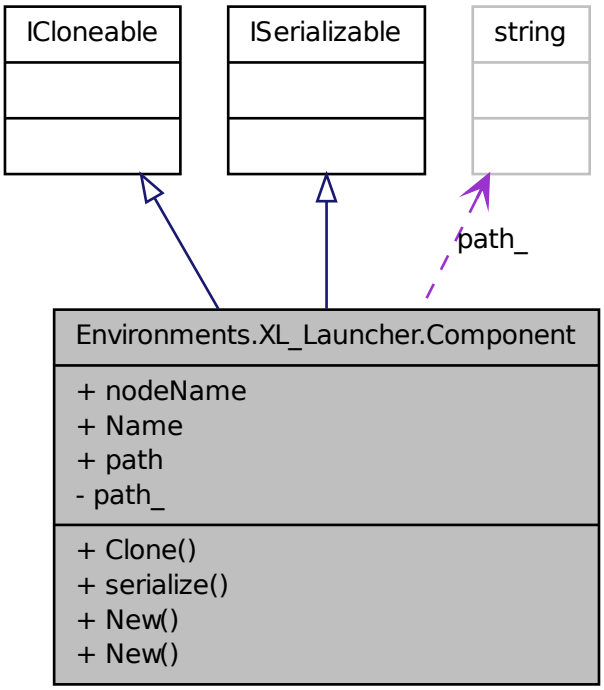
7.5 Environments.XL_Launcher.Component Class Reference

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]

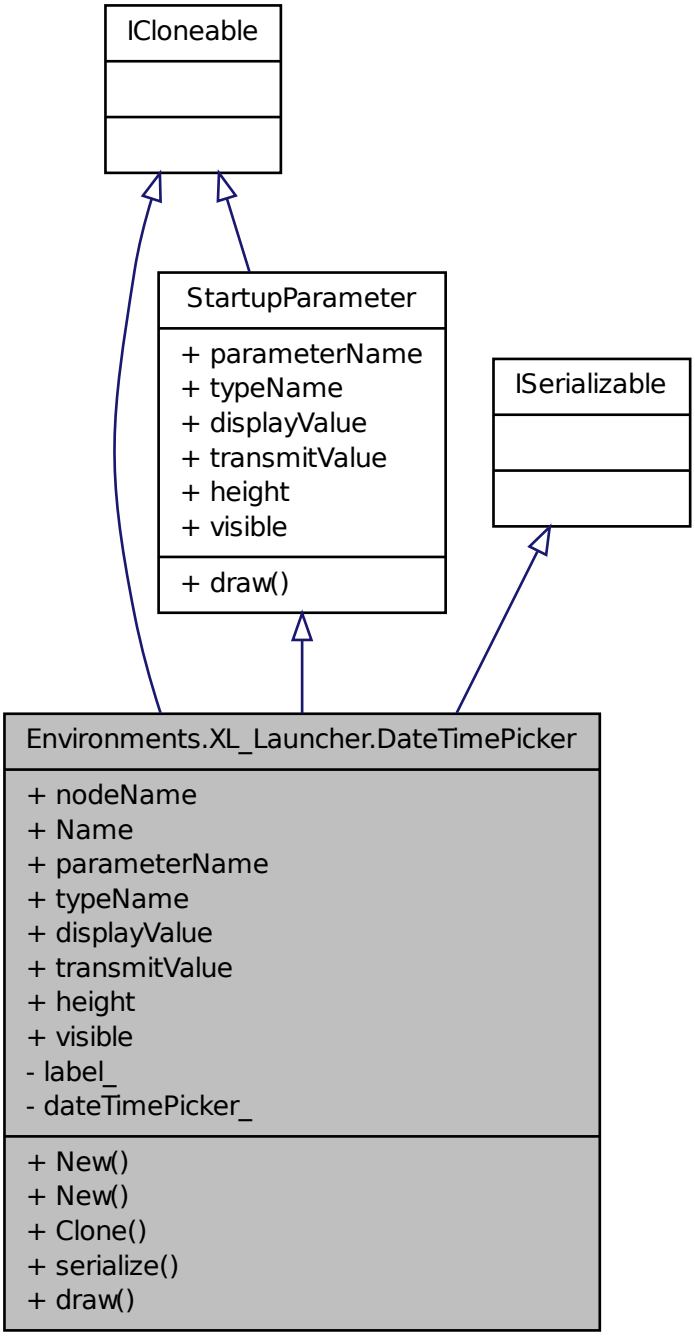
Properties Implements ISerializable.nodeName

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

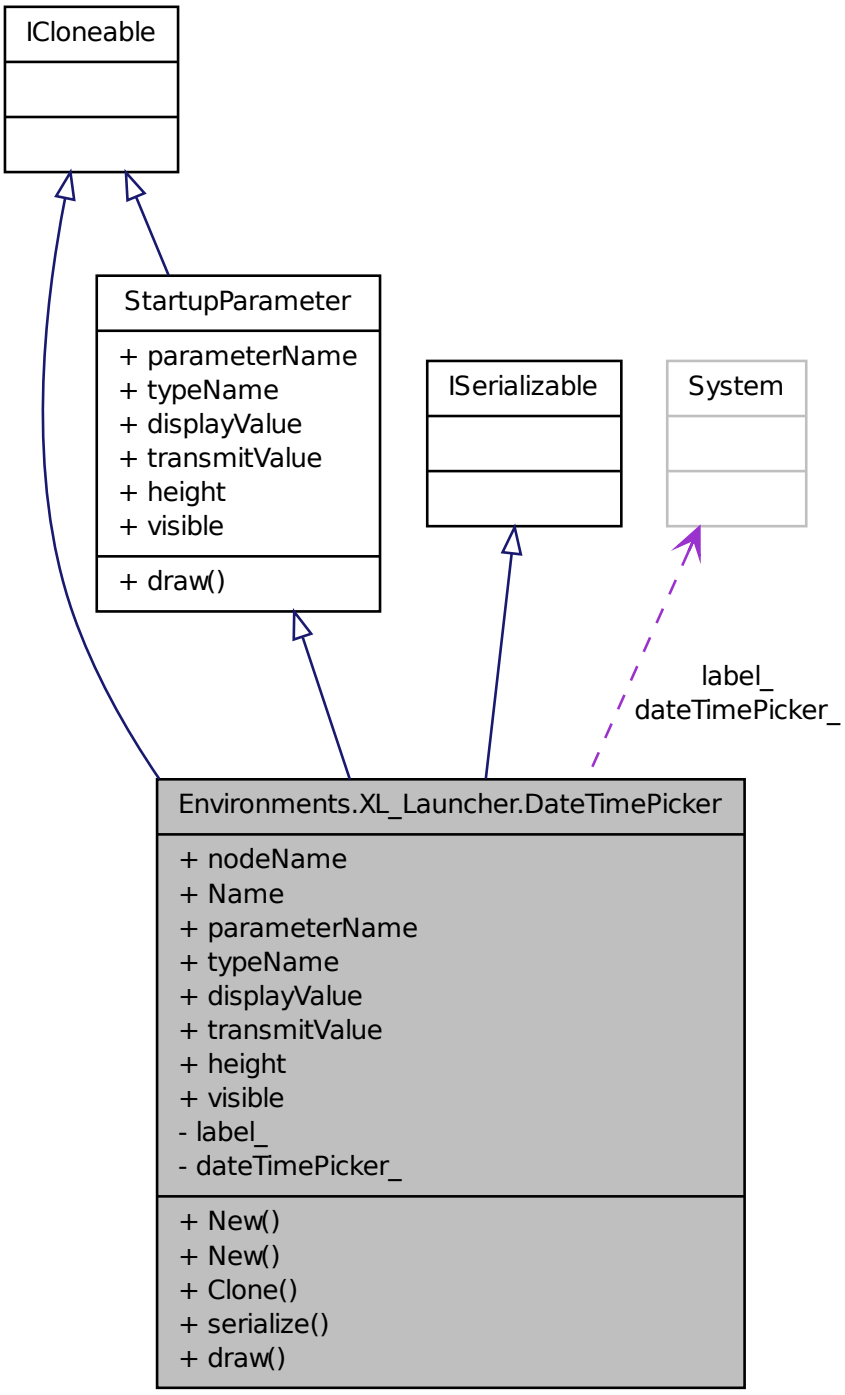
- Component.vb

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.

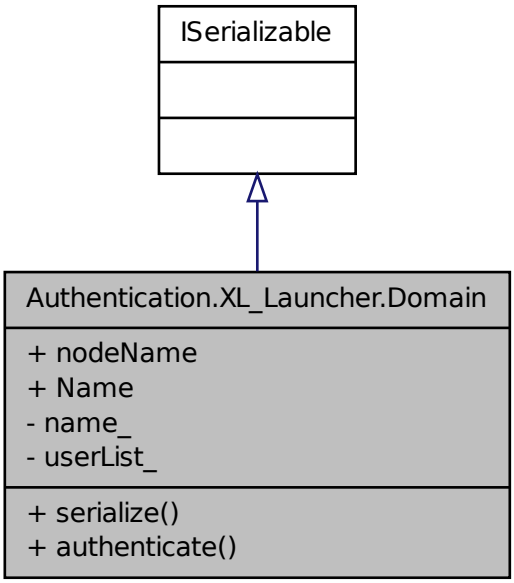
The documentation for this class was generated from the following file:

- StartupParameter.vb

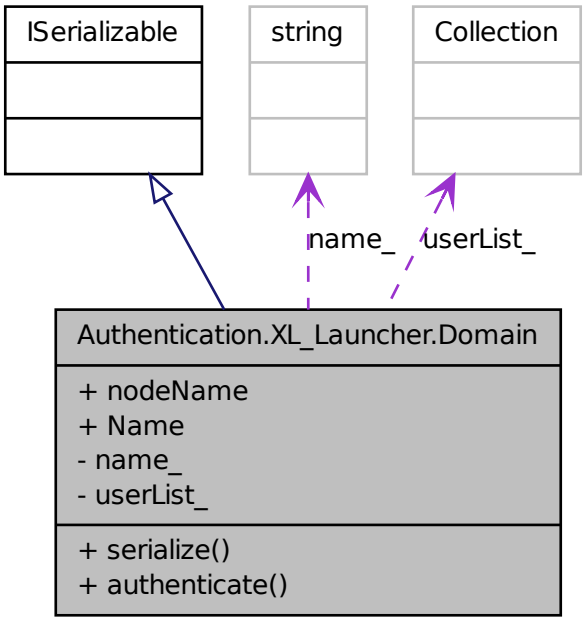
7.7 Authentication.XL_Launcher.Domain Class Reference

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

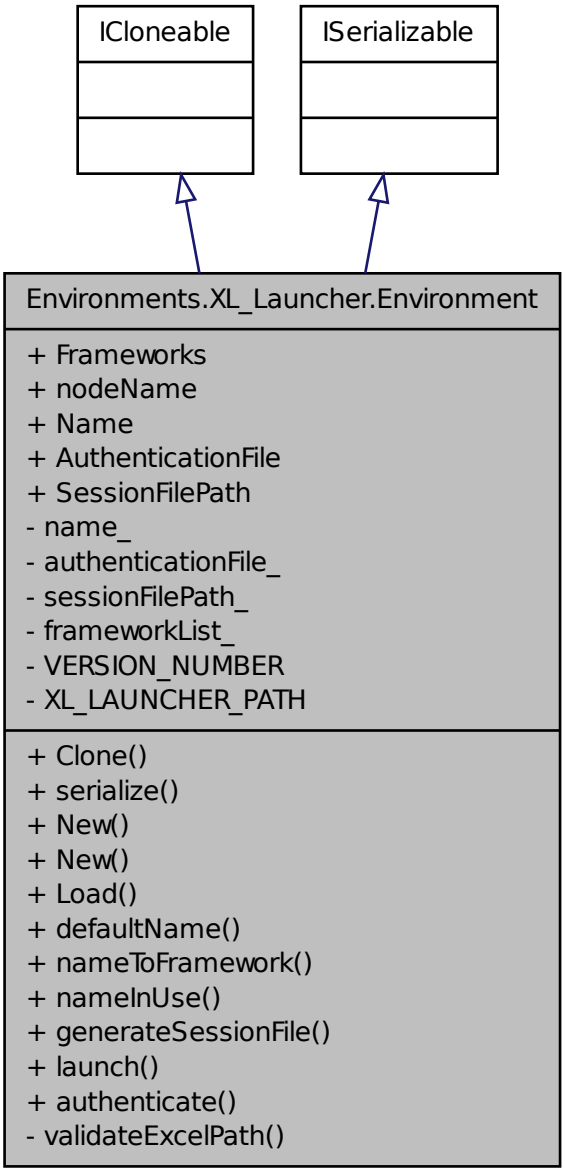
The documentation for this class was generated from the following file:

- Domain.vb

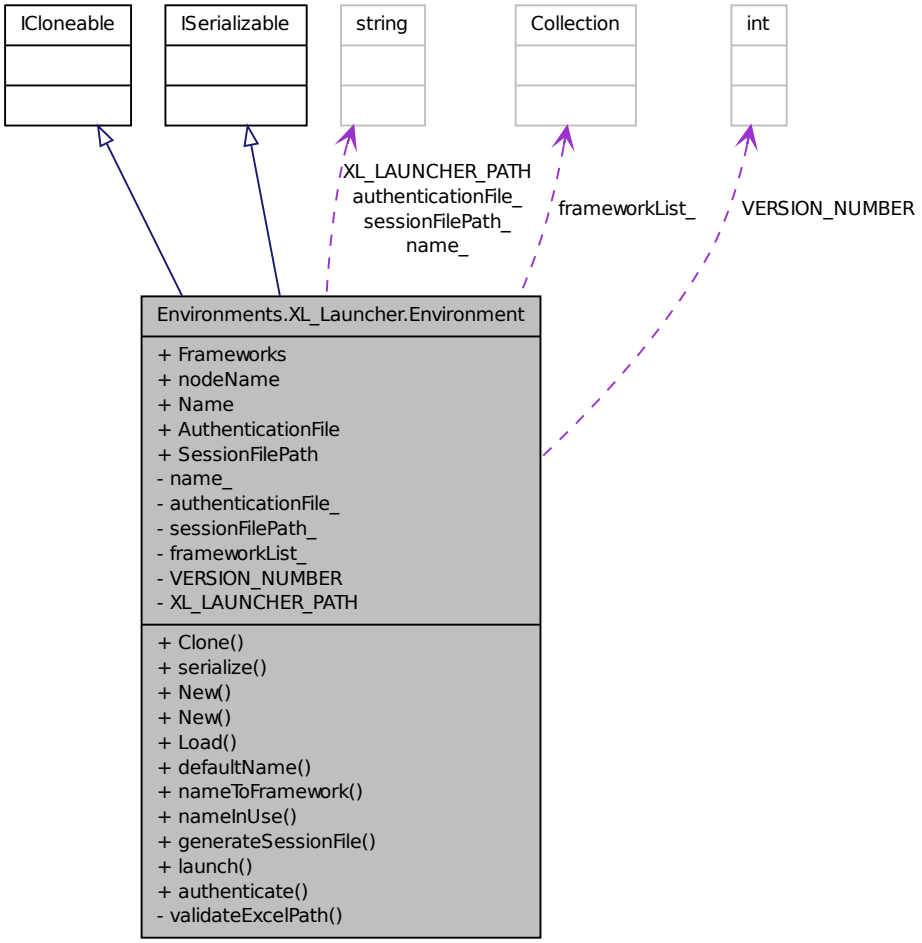
7.8 Environments.XL_Launcher.Environment Class Reference

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:

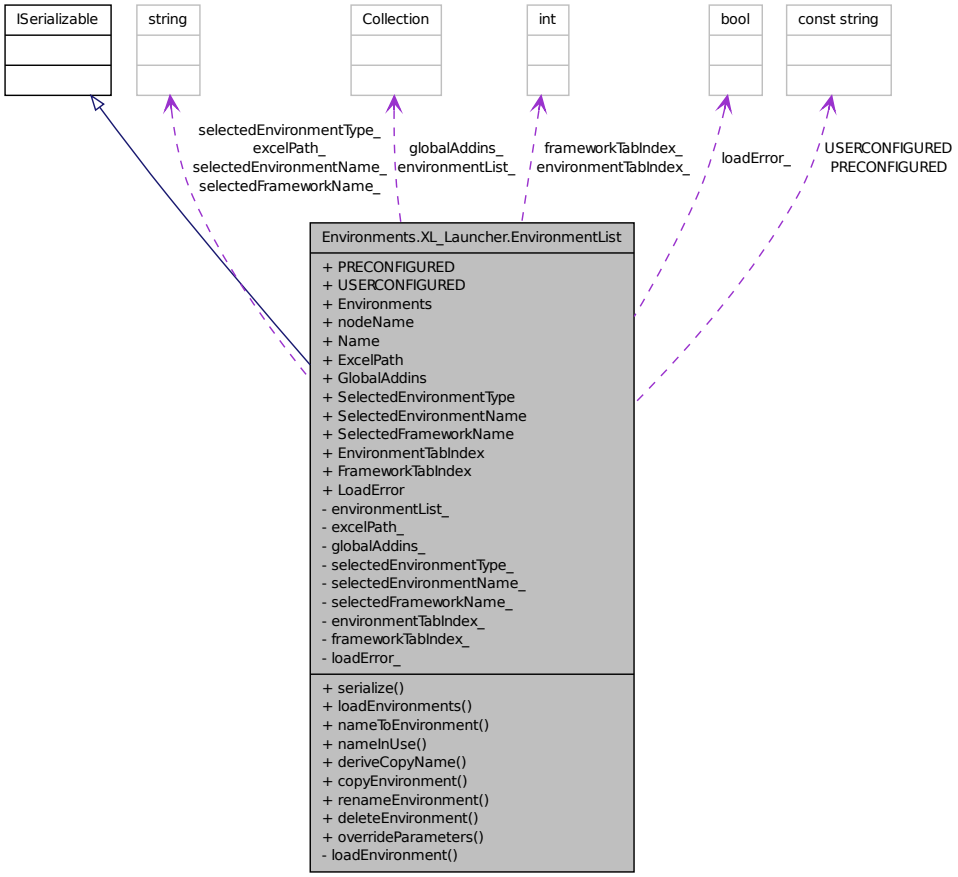
- Environment.vb

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

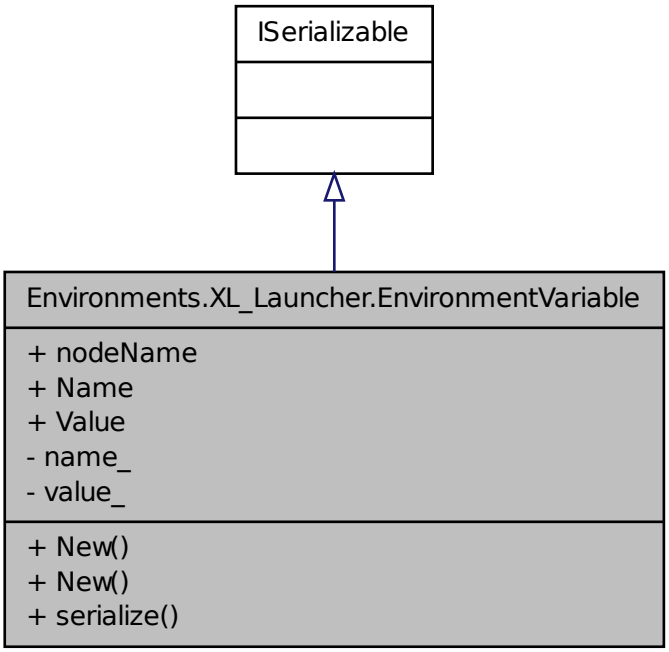
The documentation for this class was generated from the following file:

- EnvironmentList.vb

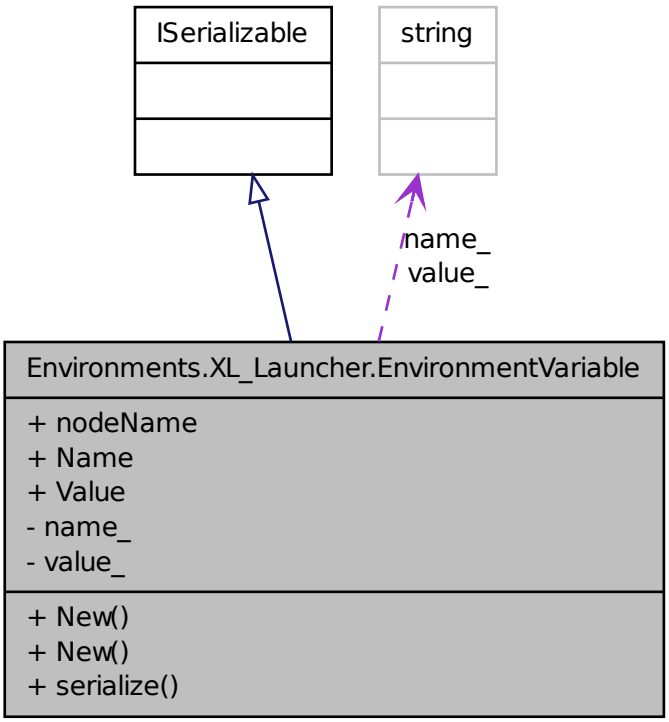
7.10 Environments.XL_Launcher.EnvironmentVariable Class Reference

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

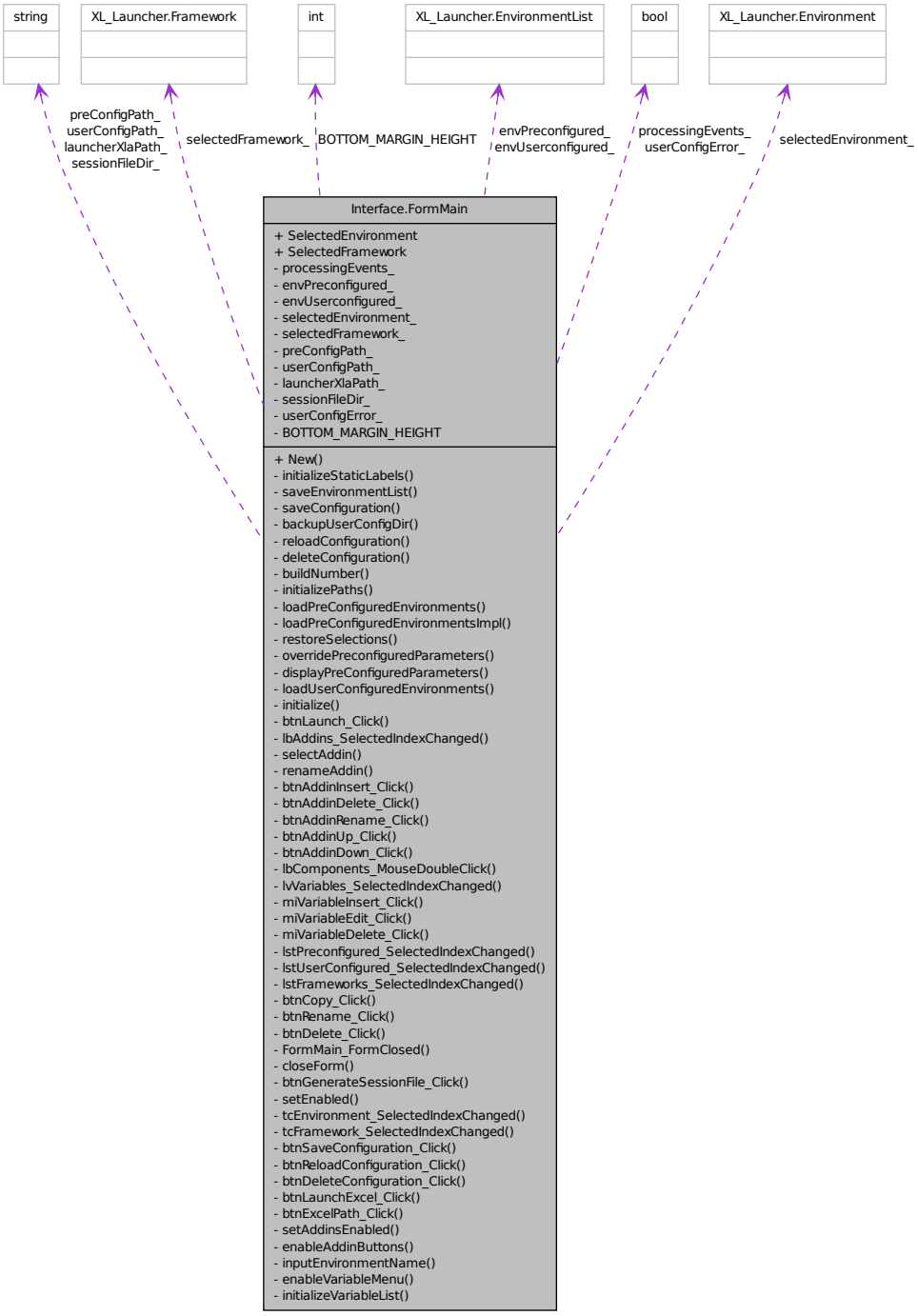
A Singleton utility for converting a type string into an instance of the corresponding object.

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.

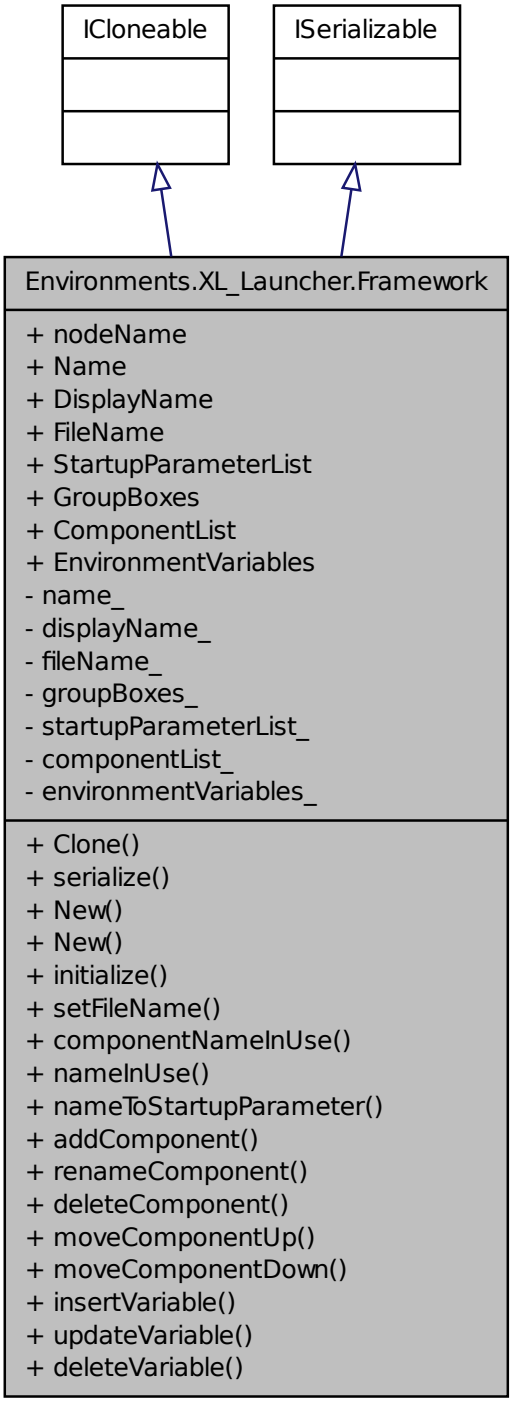
The documentation for this class was generated from the following file:

- FormVariableEdit.vb

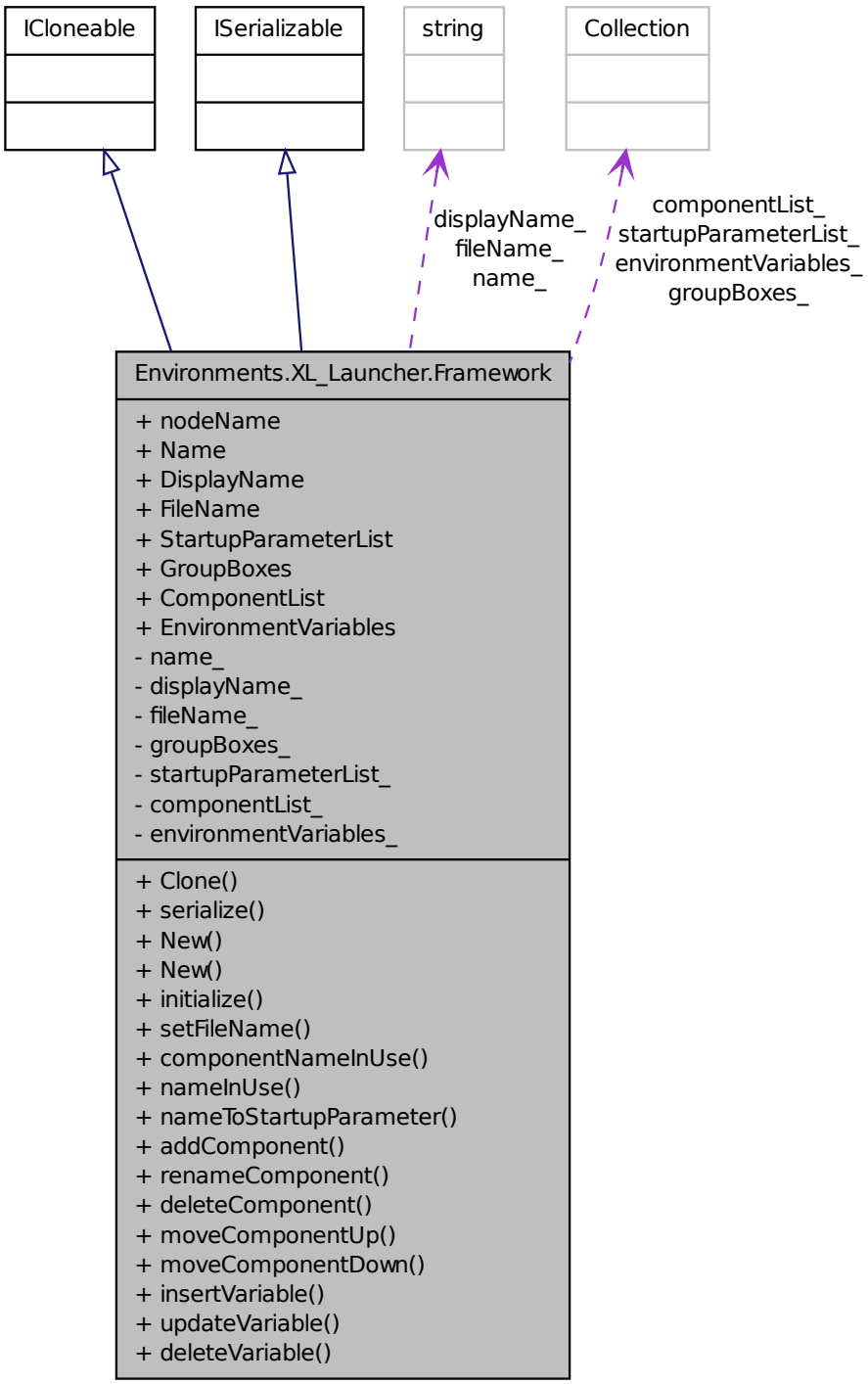
7.14 Environments.XL_Launcher.Framework Class Reference

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

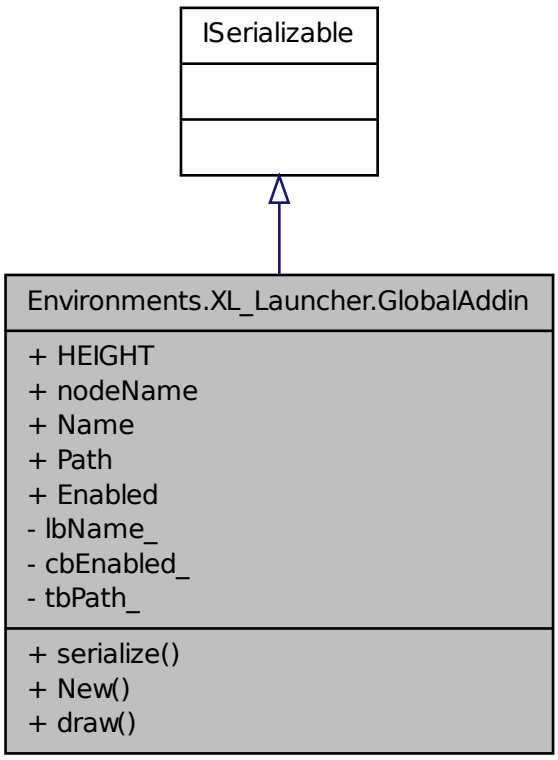
The documentation for this class was generated from the following file:

- Framework.vb

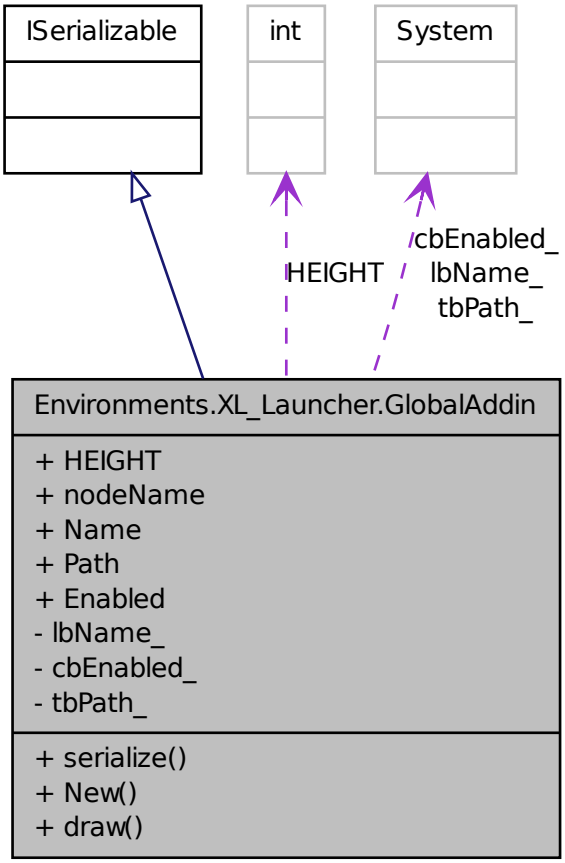
7.15 Environments.XL_Launcher.GlobalAddin Class Reference

An Addin which is specific to an overall Excel session and not to any particular Excecl 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 Excecl 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

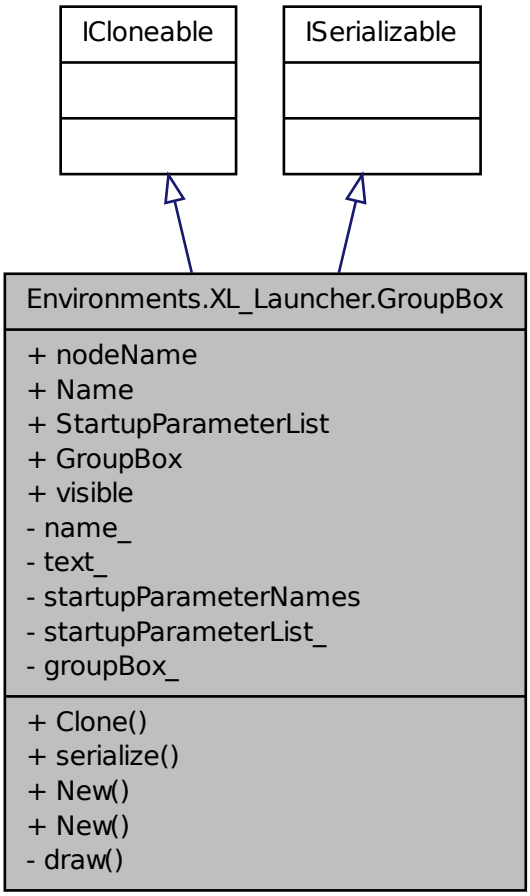
The documentation for this class was generated from the following file:

- GlobalAddin.vb

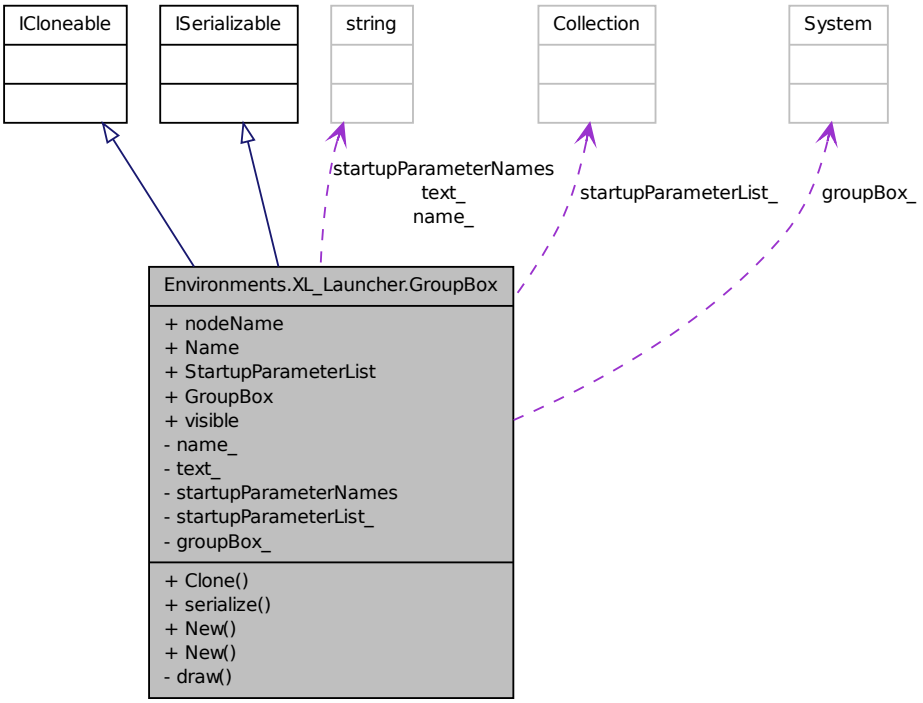
7.16 Environments.XL_Launcher.GroupBox Class Reference

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]

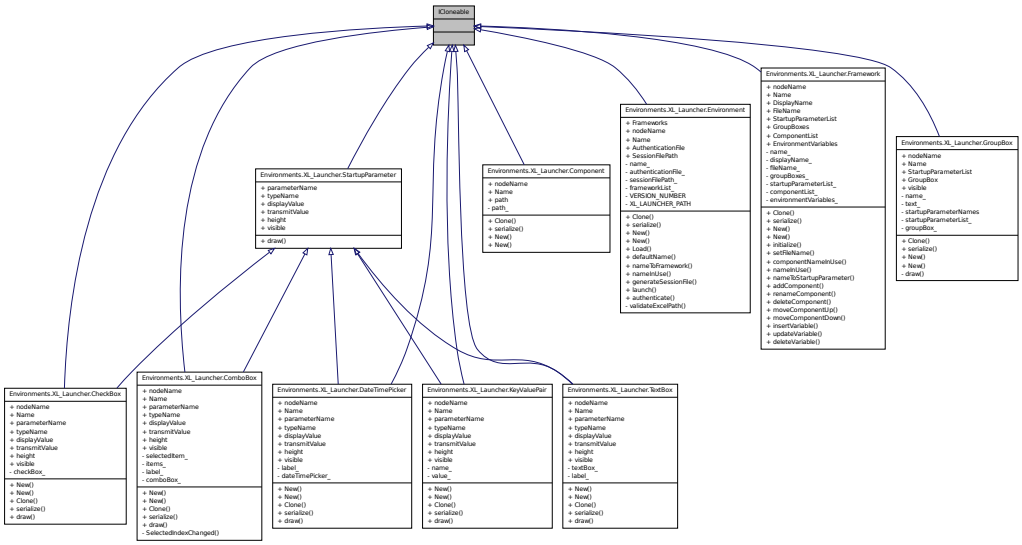
Properties Implements ISerializable.nodeName

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.

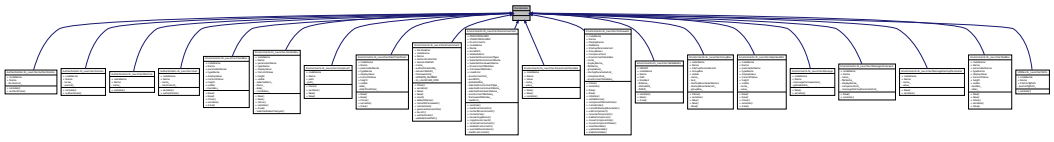
Returns

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

- ISerializable.vb

7.19 ISerializable Class Reference

Inheritance diagram for ISerializable:



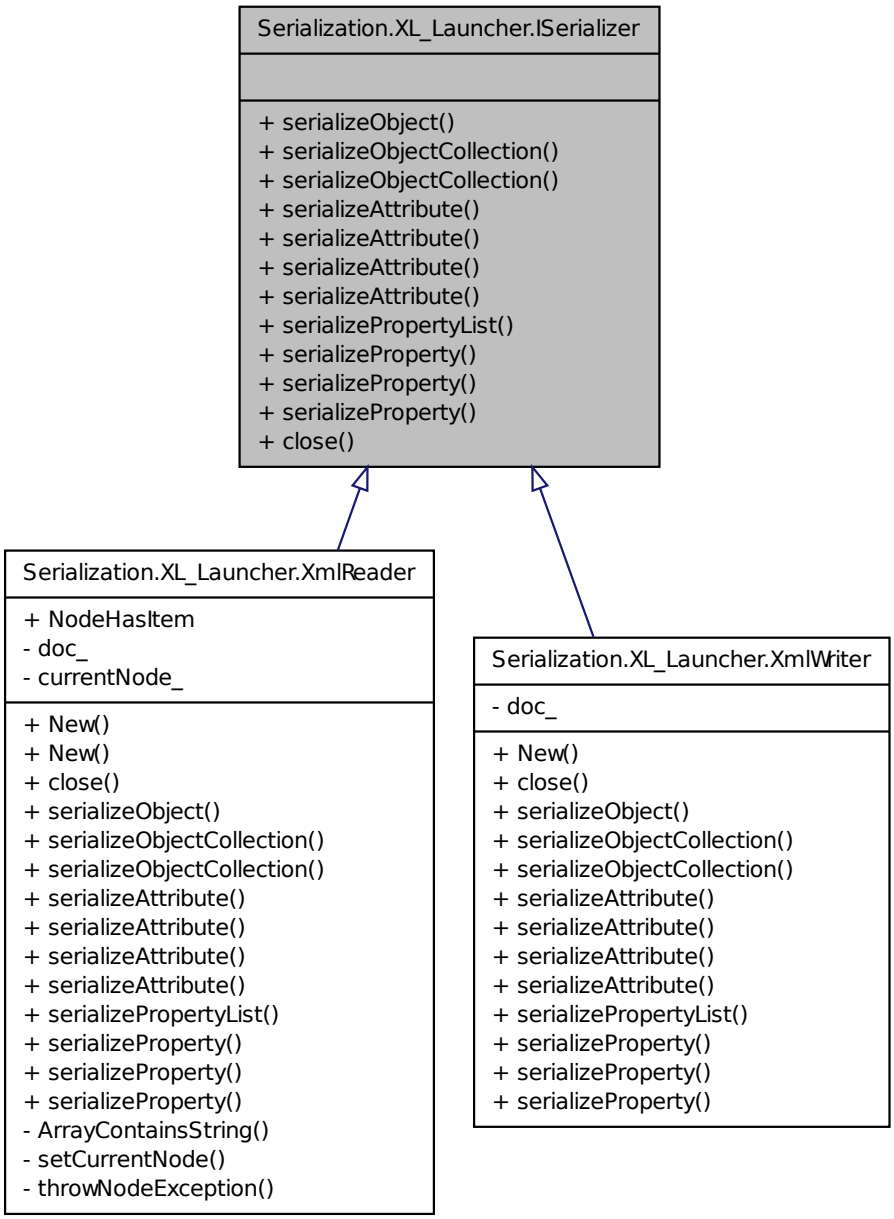
The documentation for this class was generated from the following files:

- 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

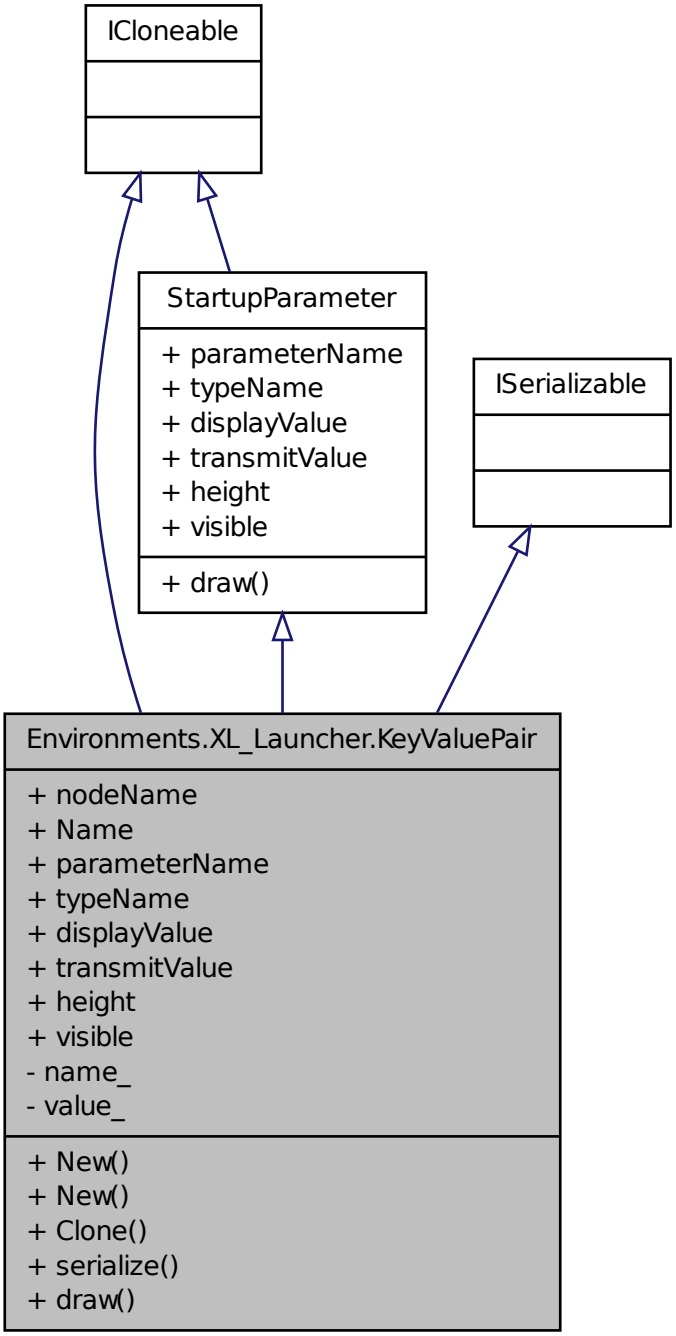
Abstract interface for any object capable of reading or writing a stream.

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

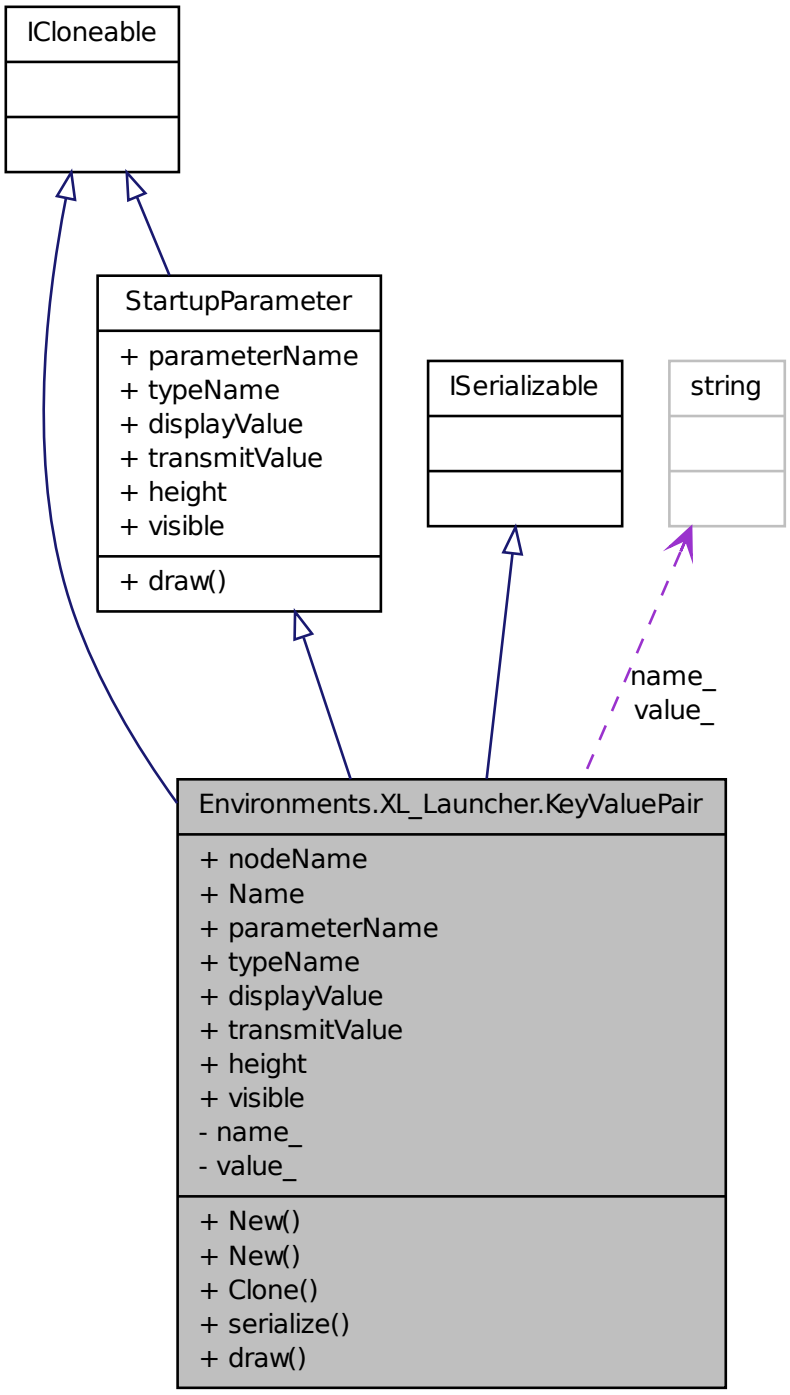
- ISerializer.vb

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.

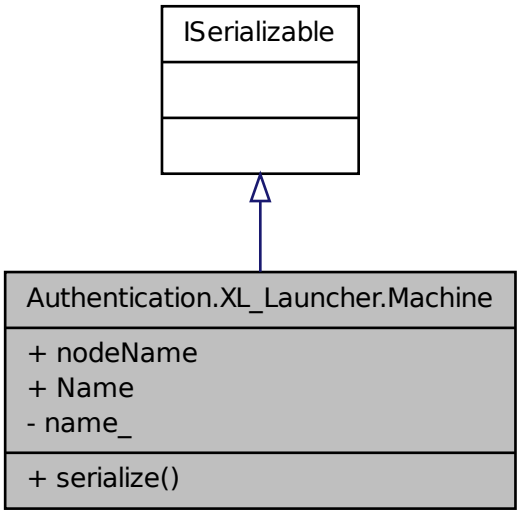
The documentation for this class was generated from the following file:

- StartupParameter.vb

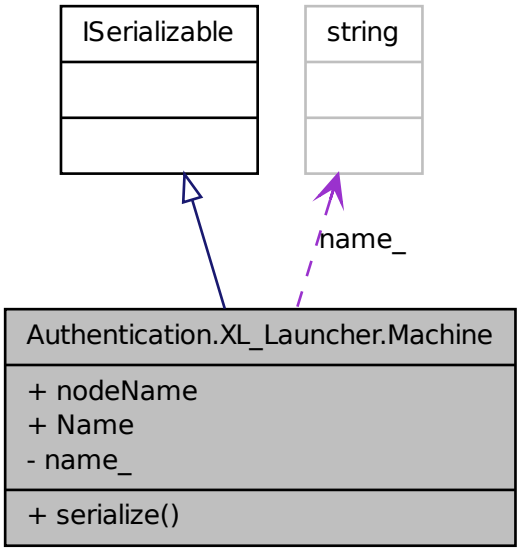
7.22 Authentication.XL_Launcher.Machine Class Reference

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

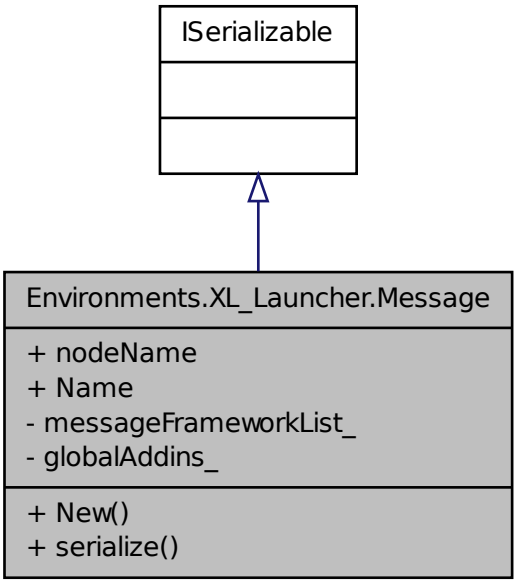
The documentation for this class was generated from the following file:

- Machine.vb

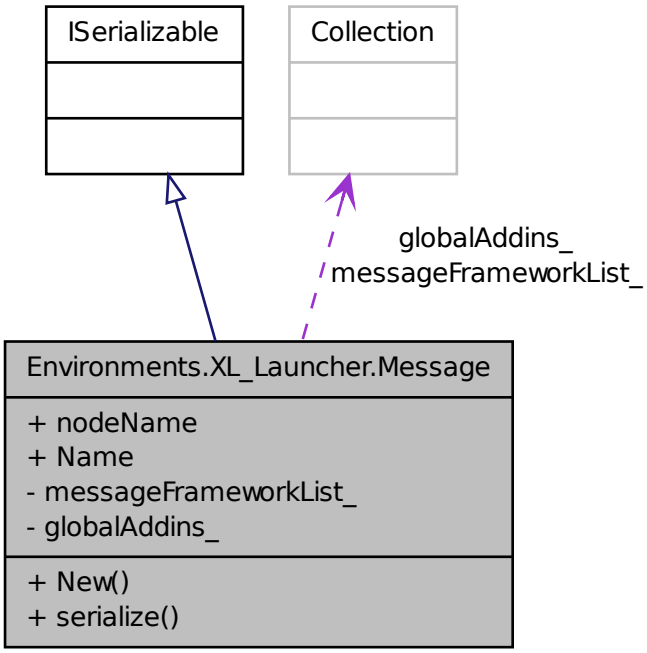
7.23 Environments.XL_Launcher.Message Class Reference

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

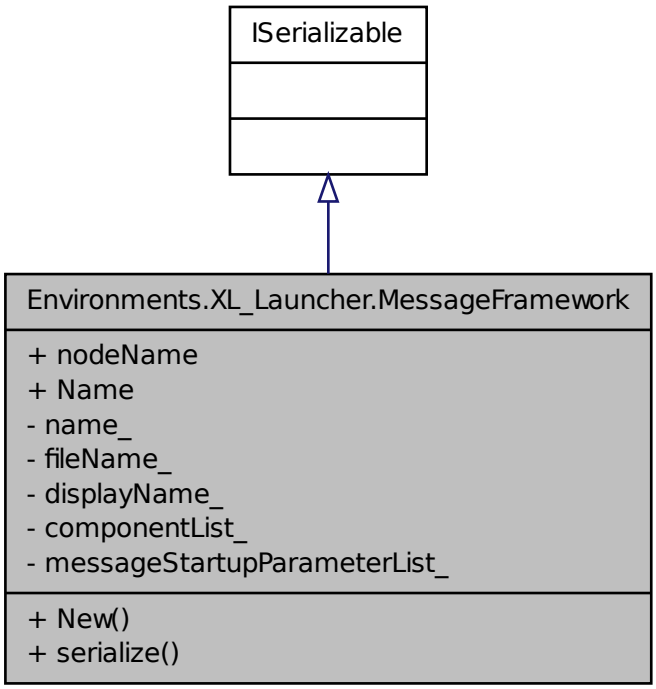
The documentation for this class was generated from the following file:

- Message.vb

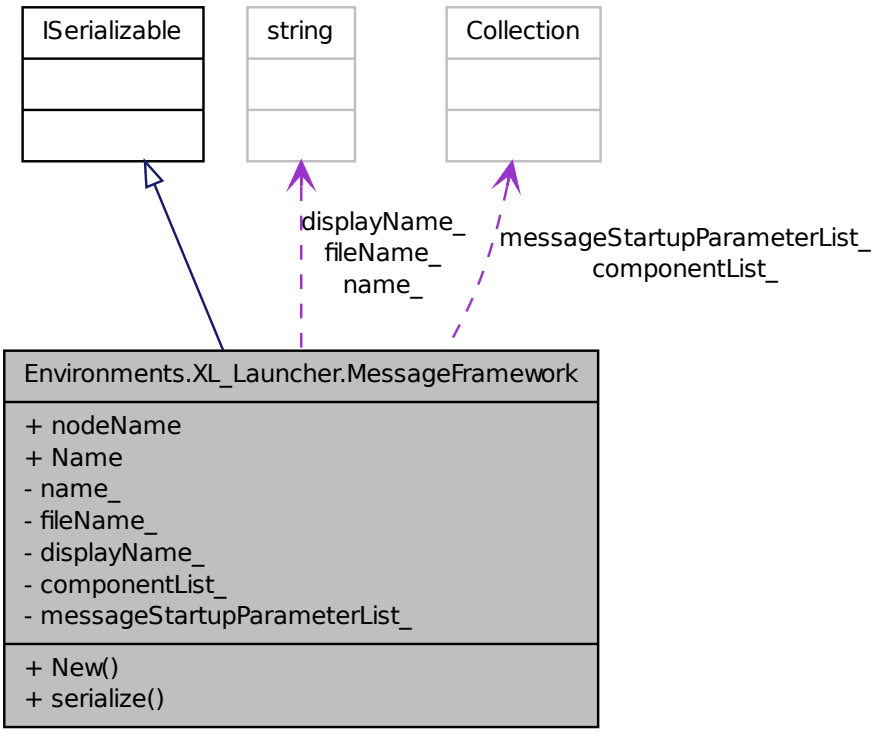
7.24 Environments.XL_Launcher.MessageFramework Class Reference

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

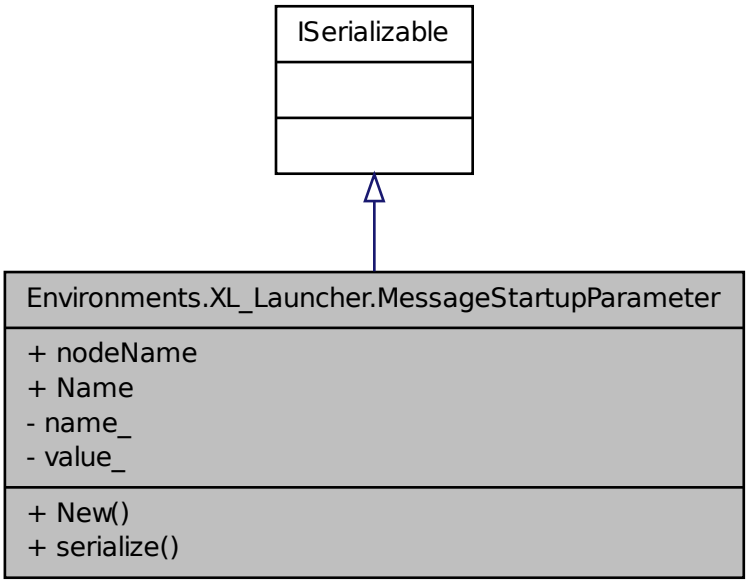
The documentation for this class was generated from the following file:

- MessageFramework.vb

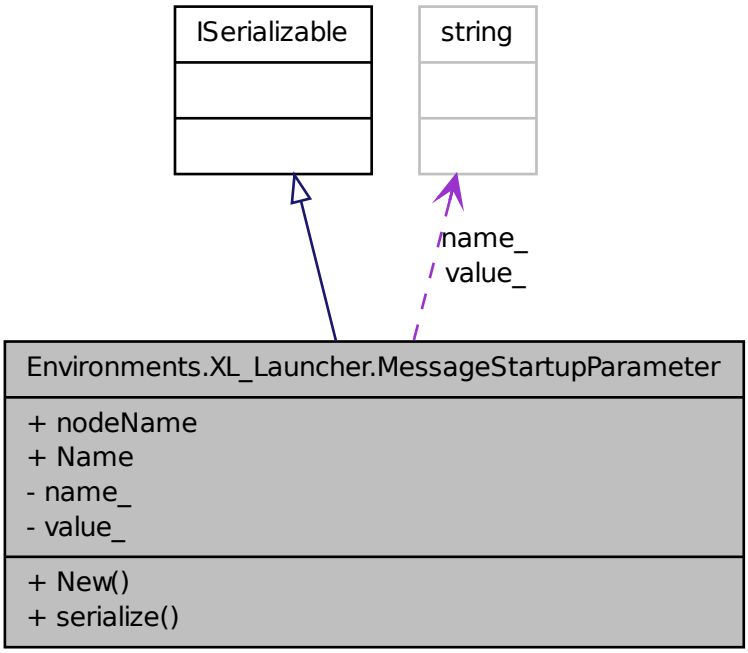
7.25 Environments.XL_Launcher.MessageStartupParameter Class Reference

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

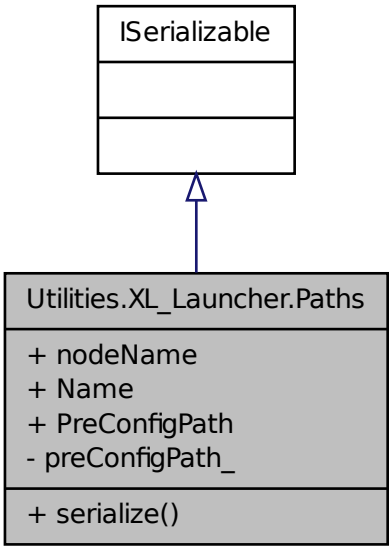
The documentation for this class was generated from the following file:

- MessageStartupParameter.vb

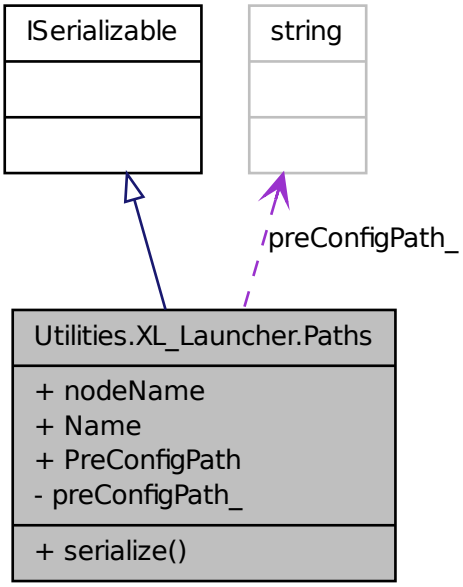
7.26 Utilities.XL_Launcher.Paths Class Reference

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

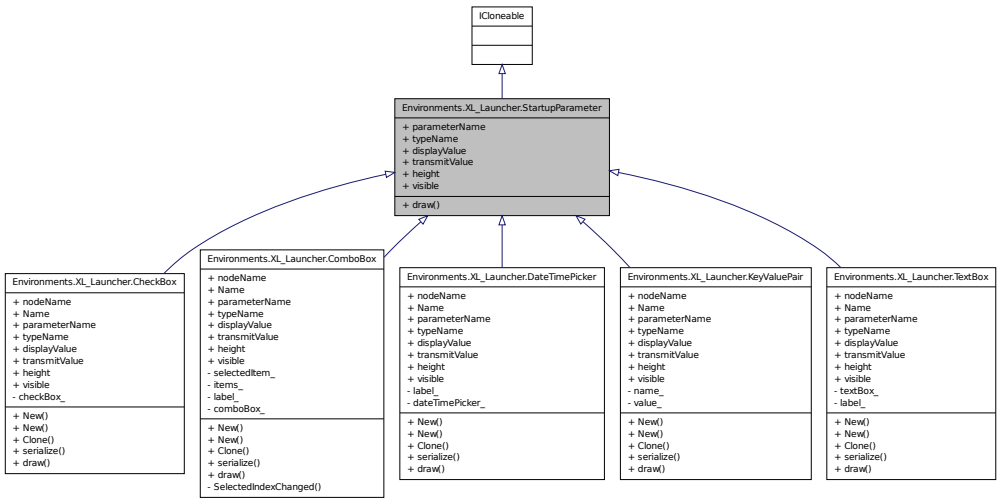
The documentation for this class was generated from the following file:

- Paths.vb

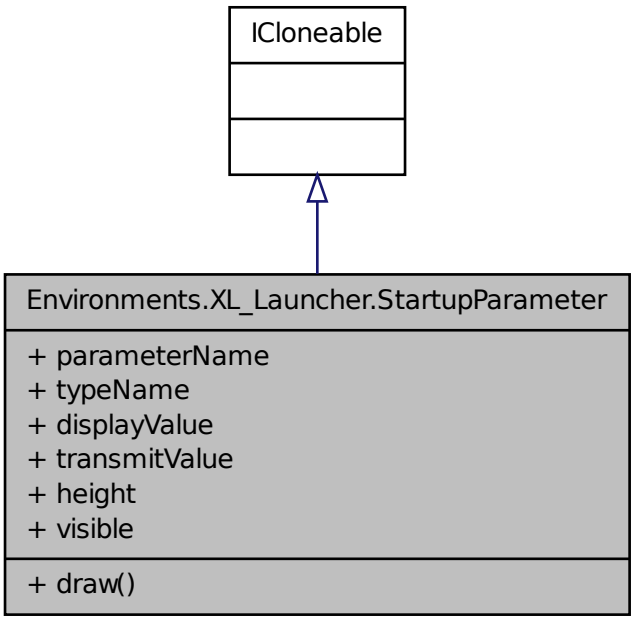
7.27 Environments.XL_Launcher.StartupParameter Interface Reference

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

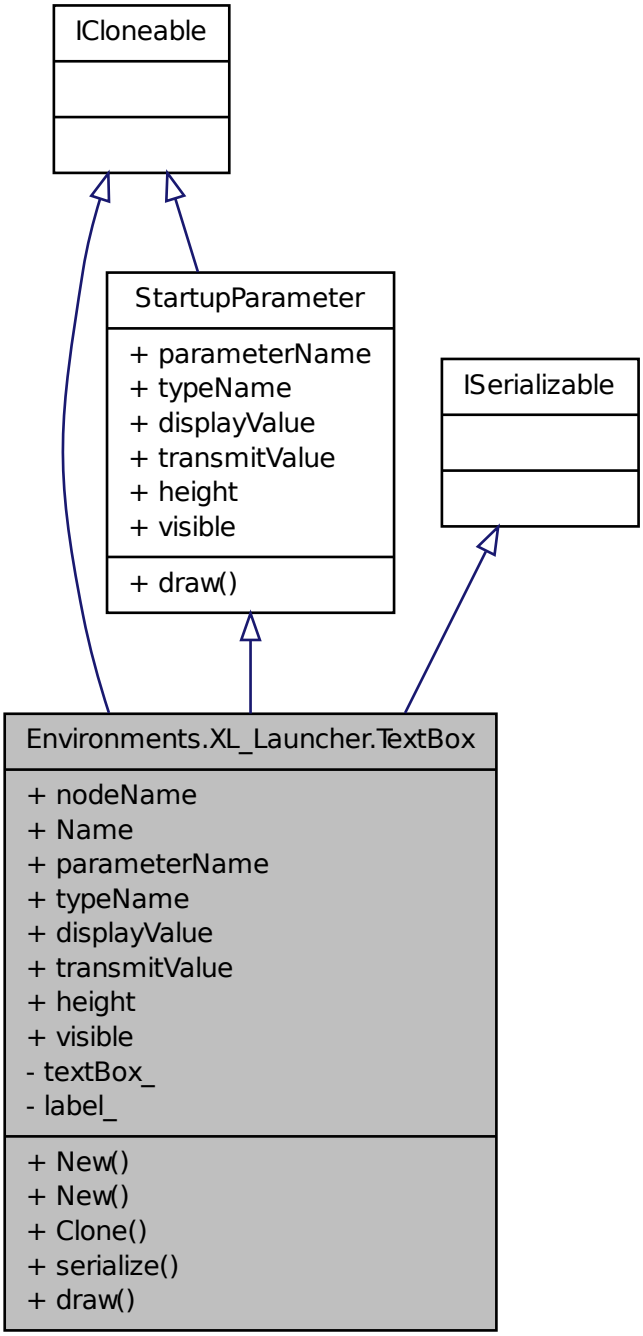
A Key-Value pair. The StartupParameter encapsulates some kind of control (e.g. TextBox, DatePicker) which is displayed in the UI in order to prompt the user for the corresponding data. Once collected the data is transmitted to Excel in the session file to be consumed by Launcher.xla.

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

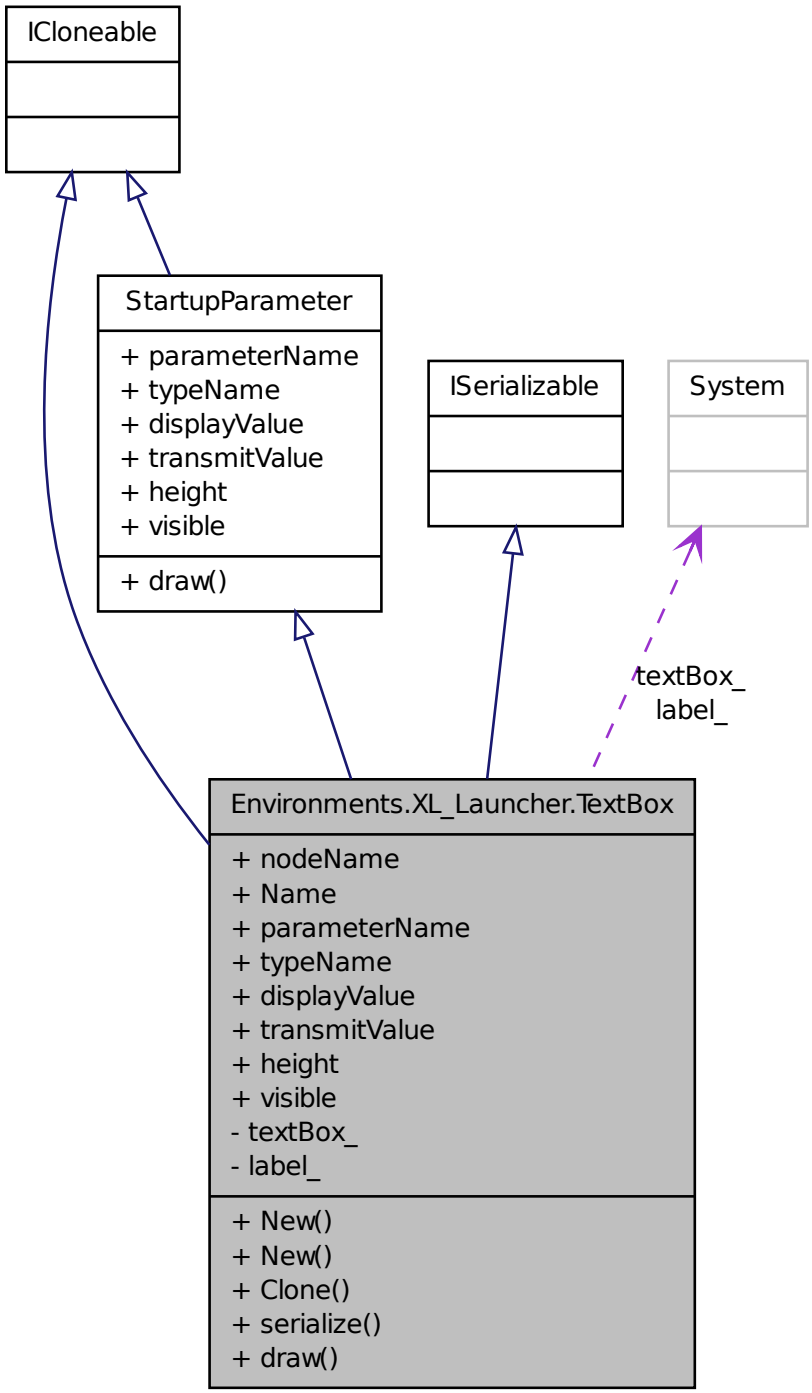
- StartupParameter.vb

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.

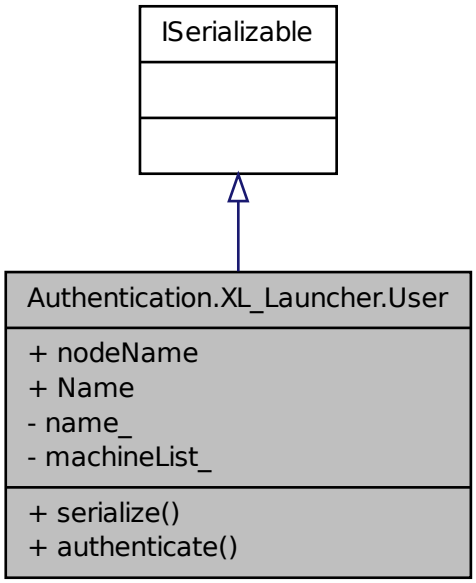
The documentation for this class was generated from the following file:

- StartupParameter.vb

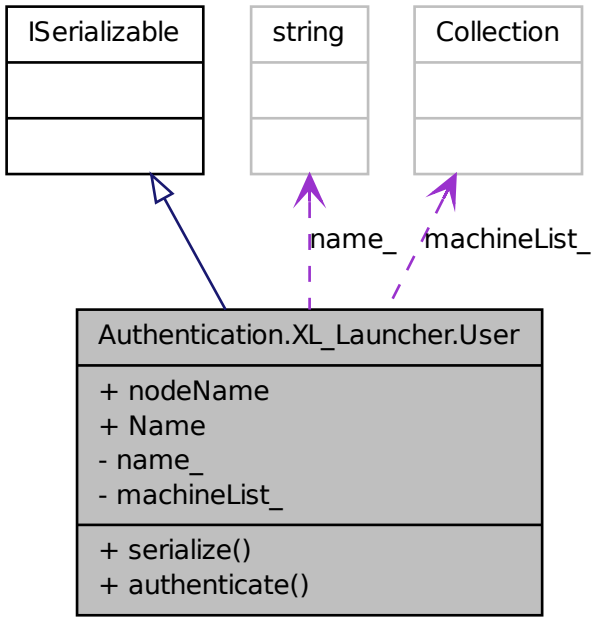
7.29 Authentication.XL_Launcher.User Class Reference

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.User.Name [get, set]

Implements ISerializable.Name

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

Implements ISerializable.nodeName

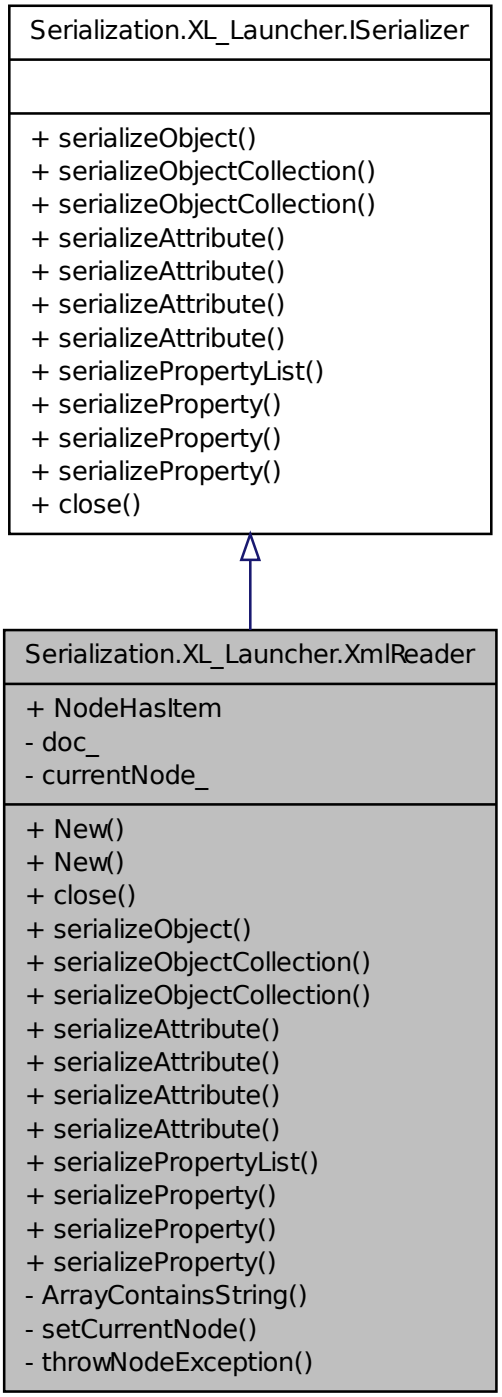
The documentation for this class was generated from the following file:

- User.vb

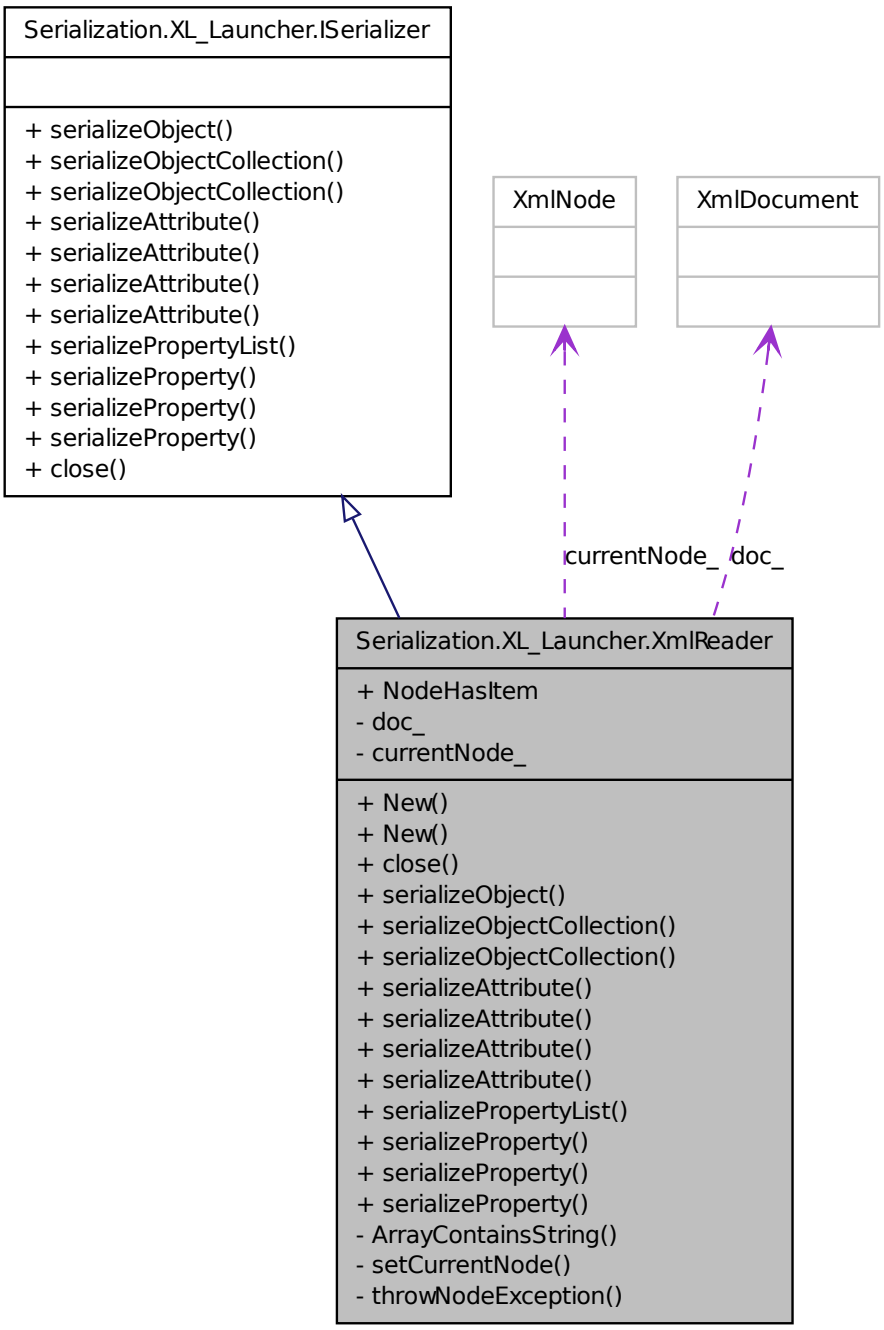
7.30 Serialization.XL_Launcher.XmlReader Class Reference

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.

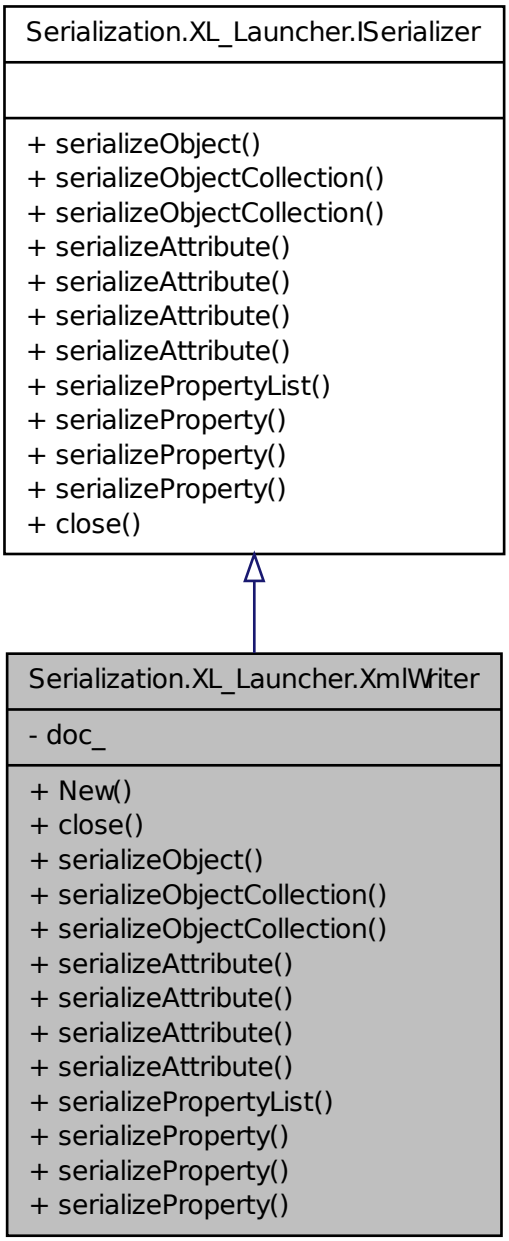
The documentation for this class was generated from the following file:

- XmlReader.vb

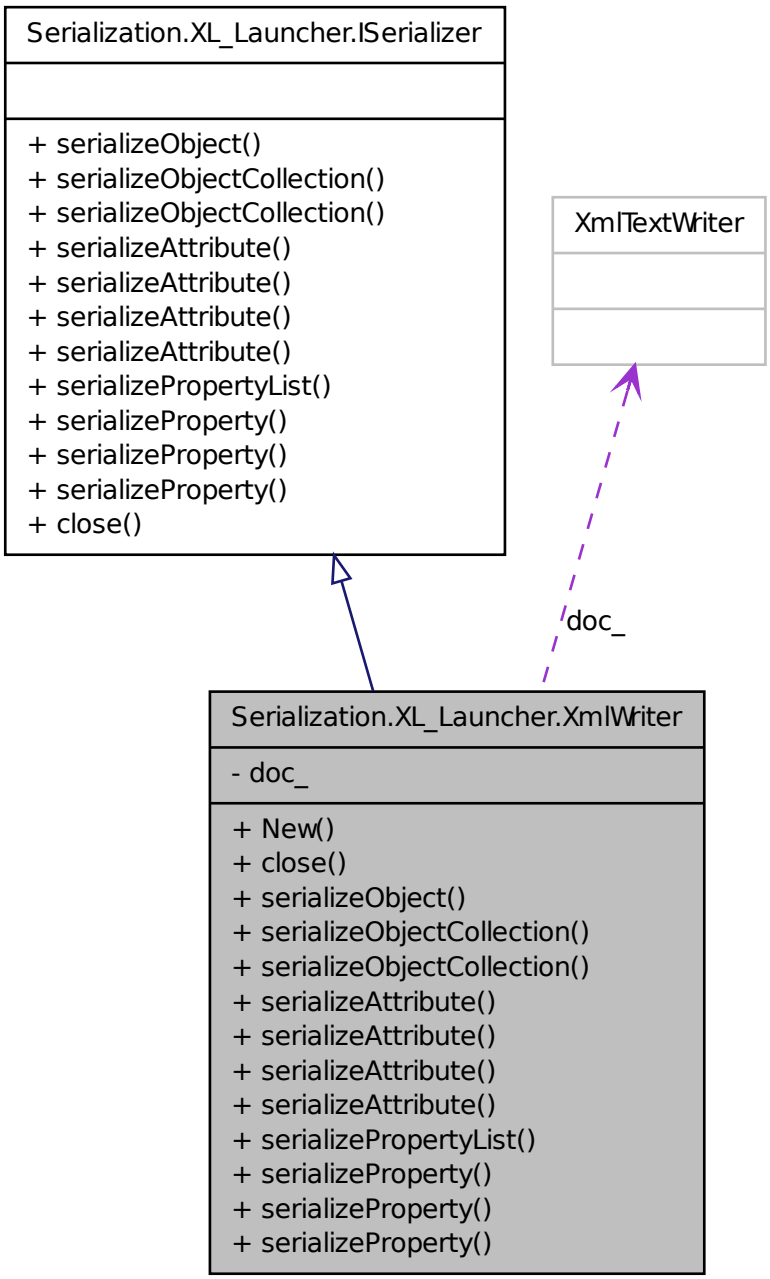
7.31 Serialization.XL_Launcher.XmlWriter Class Reference

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 messageBoxStyle=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 Excecl 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