## XL-Launcher

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# **Contents**

1	XL-	Launcher	1
	1.1	Introduction	1
	1.2	Main Form	1
	1.3	Environment	1
	1.4	Framework	2
	1.5	Component	2
	1.6	Startup Parameter	2
	1.7	Environment Variable	2
	1.8	Message	2
2	Nan	nespace Index	3
	2.1	Package List	3
3	Clas	ss Index	5
	3.1	Class Hierarchy	5
4	Clas	ss Index	7
	4.1	Class List	7
5	File	Index	9
	5.1	File List	9
6	Nan	nespace Documentation	11
	6.1	Package Authentication	11
	6.2	Package Authentication.XL_Launcher	11
	6.3	Package Environments	11
	6.4	Package Environments.XL_Launcher	12
	6.5	Package Interface	13
	6.6	Package Serialization	13
	6.7	Package Serialization.XL_Launcher	13

ii CONTENTS

	6.8	Packag	ge Utilities	3
		6.8.1	Function Documentation	4
			6.8.1.1 GetCurrentProcessId	4
	6.9	Packag	ge Utilities.XL_Launcher	4
7	Clas	s Docu	mentation 1	7
	7.1	Auther	ntication.XL_Launcher.Authentication Class Reference	7
		7.1.1	Detailed Description	8
		7.1.2	Member Function Documentation	8
			7.1.2.1 serialize	8
		7.1.3	Property Documentation	9
			7.1.3.1 Name	9
			7.1.3.2 nodeName	9
	7.2	Utilitie	es.AuthenticationParameters Struct Reference	9
	7.3	Enviro	nments.XL_Launcher.CheckBox Class Reference	0
		7.3.1	Member Function Documentation	2
			7.3.1.1 Clone	2
			7.3.1.2 draw	2
			7.3.1.3 New	2
			7.3.1.4 serialize	2
		7.3.2	Property Documentation	2
			7.3.2.1 displayValue	2
			7.3.2.2 height	3
			7.3.2.3 Name	3
			7.3.2.4 nodeName	3
			7.3.2.5 parameterName	3
			7.3.2.6 transmitValue	3
			7.3.2.7 typeName	3
			7.3.2.8 visible	3
	7.4	Enviro	nments.XL_Launcher.ComboBox Class Reference	5
		7.4.1	Member Function Documentation	7
			7.4.1.1 Clone	7
			7.4.1.2 draw	7
			7.4.1.3 New	7
			7.4.1.4 serialize	7
		7.4.2	Property Documentation	7
			7.4.2.1 displayValue	7

CONTENTS

			7.4.2.2	height	28
			7.4.2.3	Name	28
			7.4.2.4	nodeName	28
			7.4.2.5	parameterName	28
			7.4.2.6	transmitValue	28
			7.4.2.7	typeName	28
			7.4.2.8	visible	28
7	.5	Enviro	nments.XI	L_Launcher.Component Class Reference	28
		7.5.1	Detailed	Description	30
		7.5.2	Member	Function Documentation	31
			7.5.2.1	Clone	31
			7.5.2.2	New	31
			7.5.2.3	serialize	31
		7.5.3	Property	Documentation	31
			7.5.3.1	Name	31
			7.5.3.2	nodeName	31
7	.6	Enviro	nments.XI	L_Launcher.DateTimePicker Class Reference	32
		7.6.1	Member	Function Documentation	34
			7.6.1.1	Clone	34
			7.6.1.2	draw	34
			7.6.1.3	New	34
			7.6.1.4	serialize	34
		7.6.2	Property	Documentation	34
			7.6.2.1	displayValue	34
			7.6.2.2	height	35
			7.6.2.3	Name	35
			7.6.2.4	nodeName	35
			7.6.2.5	parameterName	35
			7.6.2.6	transmitValue	35
			7.6.2.7	typeName	35
			7.6.2.8	visible	35
7	.7	Auther	ntication.X	KL_Launcher.Domain Class Reference	35
		7.7.1	Detailed	Description	37
		7.7.2	Member	Function Documentation	37
			7.7.2.1	serialize	37
		7.7.3	Property	Documentation	38

iv CONTENTS

		7.7.3.1	Name	38
		7.7.3.2	nodeName	38
7.8	Enviro	nments.XI	L_Launcher.Environment Class Reference	38
	7.8.1	Detailed	Description	41
	7.8.2	Member	Function Documentation	41
		7.8.2.1	authenticate	41
		7.8.2.2	Clone	41
		7.8.2.3	nameToFramework	41
		7.8.2.4	New	41
		7.8.2.5	serialize	41
	7.8.3	Property	Documentation	41
		7.8.3.1	Frameworks	41
		7.8.3.2	Name	41
		7.8.3.3	nodeName	42
7.9	Enviro	nments.XI	L_Launcher.EnvironmentList Class Reference	42
	7.9.1	Detailed	Description	45
	7.9.2	Member	Function Documentation	45
		7.9.2.1	serialize	45
	7.9.3	Member	Data Documentation	45
		7.9.3.1	PRECONFIGURED	45
	7.9.4	Property	Documentation	45
		7.9.4.1	Environments	45
		7.9.4.2	Name	45
		7.9.4.3	nodeName	46
7.10	Enviro	nments.XI	L_Launcher.EnvironmentVariable Class Reference	46
	7.10.1	Detailed	Description	47
	7.10.2	Member	Function Documentation	48
		7.10.2.1	New	48
		7.10.2.2	serialize	48
	7.10.3	Property	Documentation	48
		7.10.3.1	Name	48
		7.10.3.2	nodeName	48
7.11	Serializ	zation.XL	_Launcher.Factory Class Reference	48
	7.11.1	Detailed	Description	48
7.12	Interfac	e.FormM	Iain Class Reference	49
	7.12.1	Member	Function Documentation	50

CONTENTS

7.12.1.1 New	50
7.13 Interface.FormVariableEdit Class Reference	50
7.13.1 Detailed Description	50
7.14 Environments.XL_Launcher.Framework Class Reference	50
7.14.1 Detailed Description	53
7.14.2 Member Function Documentation	53
7.14.2.1 Clone	53
7.14.2.2 componentNameInUse	53
7.14.2.3 insertVariable	54
7.14.2.4 New	54
7.14.2.5 serialize	54
7.14.3 Property Documentation	54
7.14.3.1 Name	54
7.14.3.2 nodeName	54
7.15 Environments.XL_Launcher.GlobalAddin Class Reference	54
7.15.1 Detailed Description	57
7.15.2 Member Function Documentation	57
7.15.2.1 draw	57
7.15.2.2 New	57
7.15.2.3 serialize	57
7.15.3 Property Documentation	57
7.15.3.1 Name	57
7.15.3.2 nodeName	57
7.16 Environments.XL_Launcher.GroupBox Class Reference	57
7.16.1 Detailed Description	59
7.16.2 Member Function Documentation	60
7.16.2.1 Clone	60
7.16.2.2 New	60
7.16.2.3 serialize	60
7.16.3 Property Documentation	60
7.16.3.1 Name	60
7.16.3.2 nodeName	60
7.17 ICloneable Class Reference	61
7.18 Serialization.XL_Launcher.ISerializable Interface Reference	61
7.18.1 Detailed Description	61
7.18.2 Property Documentation	62

vi CONTENTS

7.18.2.1 Name	62
7.18.2.2 nodeName	62
7.19 ISerializable Class Reference	62
7.20 Serialization.XL_Launcher.ISerializer Interface Reference	63
7.20.1 Detailed Description	64
7.21 Environments.XL_Launcher.KeyValuePair Class Reference	65
7.21.1 Member Function Documentation	67
7.21.1.1 Clone	67
7.21.1.2 draw	67
7.21.1.3 New	67
7.21.1.4 serialize	67
7.21.2 Property Documentation	67
7.21.2.1 displayValue	67
7.21.2.2 height	68
7.21.2.3 Name	68
7.21.2.4 nodeName	68
7.21.2.5 parameterName	68
7.21.2.6 transmitValue	68
7.21.2.7 typeName	68
7.21.2.8 visible	68
7.22 Authentication.XL_Launcher.Machine Class Reference	68
7.22.1 Detailed Description	70
7.22.2 Member Function Documentation	70
7.22.2.1 serialize	70
7.22.3 Property Documentation	70
7.22.3.1 Name	70
7.22.3.2 nodeName	70
7.23 Environments.XL_Launcher.Message Class Reference	70
7.23.1 Detailed Description	72
7.23.2 Member Function Documentation	72
7.23.2.1 New	72
7.23.2.2 serialize	73
7.23.3 Property Documentation	73
7.23.3.1 Name	73
7.23.3.2 nodeName	73
7.24 Environments.XL_Launcher.MessageFramework Class Reference	73

CONTENTS vii

7.24.1 Detailed Description
7.24.2 Member Function Documentation
7.24.2.1 New
7.24.2.2 serialize
7.24.3 Property Documentation
7.24.3.1 Name
7.24.3.2 nodeName
7.25 Environments.XL_Launcher.MessageStartupParameter Class Reference
7.25.1 Detailed Description
7.25.2 Member Function Documentation
7.25.2.1 New
7.25.2.2 serialize
7.25.3 Property Documentation
7.25.3.1 Name
7.25.3.2 nodeName
7.26 Utilities.XL_Launcher.Paths Class Reference
7.26.1 Detailed Description
7.26.2 Member Function Documentation
7.26.2.1 serialize
7.26.3 Property Documentation
7.26.3.1 Name
7.26.3.2 nodeName
7.27 Environments.XL_Launcher.StartupParameter Interface Reference 81
7.27.1 Detailed Description
7.28 Environments.XL_Launcher.TextBox Class Reference
7.28.1 Member Function Documentation
7.28.1.1 Clone
7.28.1.2 draw
7.28.1.3 New
7.28.1.4 serialize
7.28.2 Property Documentation
7.28.2.1 displayValue
7.28.2.2 height
7.28.2.3 Name
7.28.2.4 nodeName
7.28.2.5 parameterName

viii CONTENTS

7.28.2.6 transmitValue	86
7.28.2.7 typeName	86
7.28.2.8 visible	86
7.29 Authentication.XL_Launcher.User Class Reference	86
7.29.1 Detailed Description	88
7.29.2 Member Function Documentation	88
7.29.2.1 serialize	88
7.29.3 Property Documentation	89
7.29.3.1 Name	89
7.29.3.2 nodeName	89
7.30 Serialization.XL_Launcher.XmlReader Class Reference	89
7.30.1 Detailed Description	92
7.30.2 Member Function Documentation	92
7.30.2.1 close	92
7.30.2.2 New	92
7.30.2.3 serializeAttribute	92
7.30.2.4 serializeAttribute	92
7.30.2.5 serializeAttribute	93
7.30.2.6 serializeAttribute	93
7.30.2.7 serializeObject	93
7.30.2.8 serializeObjectCollection	93
7.30.2.9 serializeObjectCollection	93
7.30.2.10 serializeProperty	93
7.30.2.11 serializeProperty	93
7.30.2.12 serializePropertyList	94
7.31 Serialization.XL_Launcher.XmlWriter Class Reference	94
7.31.1 Detailed Description	97
7.31.2 Member Function Documentation	97
7.31.2.1 close	97
7.31.2.2 New	97
7.31.2.3 serializeAttribute	97
7.31.2.4 serializeAttribute	97
7.31.2.5 serializeAttribute	98
7.31.2.6 serializeAttribute	98
7.31.2.7 serializeObject	98
7.31.2.8 serializeObjectCollection	98

CONTENTS

		7.31.2.9 serializeObjectCollection	98
		7.31.2.10 serializeProperty	98
		7.31.2.11 serializeProperty	98
		7.31.2.12 serializePropertyList	99
8	File 1	Documentation	101
	8.1	Authentication.vb File Reference	101
		8.1.1 Detailed Description	101
	8.2	Component.vb File Reference	101
		8.2.1 Detailed Description	102
	8.3	Domain.vb File Reference	102
		8.3.1 Detailed Description	102
	8.4	Environment.vb File Reference	102
		8.4.1 Detailed Description	102
	8.5	EnvironmentList.vb File Reference	102
		8.5.1 Detailed Description	103
	8.6	EnvironmentVariable.vb File Reference	103
		8.6.1 Detailed Description	103
	8.7	Errors.vb File Reference	103
		8.7.1 Detailed Description	104
	8.8	Factory.vb File Reference	104
		8.8.1 Detailed Description	104
	8.9	FormMain.vb File Reference	104
		8.9.1 Detailed Description	104
	8.10	FormMainAddins.vb File Reference	104
		8.10.1 Detailed Description	104
	8.11	FormMainEnvironments.vb File Reference	104
		8.11.1 Detailed Description	105
	8.12	FormMainVariables.vb File Reference	105
		8.12.1 Detailed Description	105
	8.13	FormVariableEdit.vb File Reference	
		8.13.1 Detailed Description	
	8.14	Framework.vb File Reference	
		8.14.1 Detailed Description	
	8.15	GlobalAddin.vb File Reference	
		8.15.1 Detailed Description	
	8.16	GroupBox.vb File Reference	

CONTENTS

	8.16.1 Detailed Description	106
8.17	ISerializable.vb File Reference	106
	8.17.1 Detailed Description	107
8.18	ISerializer.vb File Reference	107
	8.18.1 Detailed Description	107
8.19	Machine.vb File Reference	107
	8.19.1 Detailed Description	107
8.20	main.docs File Reference	107
	8.20.1 Detailed Description	107
8.21	Message.vb File Reference	107
	8.21.1 Detailed Description	108
8.22	MessageFramework.vb File Reference	108
	8.22.1 Detailed Description	108
8.23	MessageStartupParameter.vb File Reference	108
	8.23.1 Detailed Description	108
8.24	Paths.vb File Reference	108
	8.24.1 Detailed Description	109
8.25	Serialization.vb File Reference	109
	8.25.1 Detailed Description	109
8.26	StartupParameter.vb File Reference	109
	8.26.1 Detailed Description	110
8.27	User.vb File Reference	110
	8.27.1 Detailed Description	110
8.28	Utilities.vb File Reference	110
	8.28.1 Detailed Description	111
8.29	XmlReader.vb File Reference	111
	8.29.1 Detailed Description	111
8.30	XmlWriter.vb File Reference	111
	8 30.1 Detailed Description	111

## **XL-Launcher**

#### 1.1 Introduction

XL-Launcher is a front end to Excel.

#### **Author**

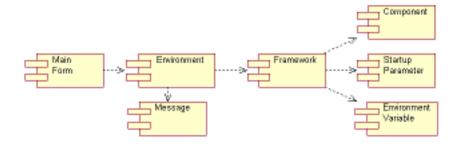
Eric Ehlers

#### Version

11.10.13.8

#### Date

21.10.2011



#### 1.2 Main Form

The Main Form encapsulates all of the user interface as well as the core functionality of the application. Environments are loaded from disk and displayed to the user who is prompted to select and launch the desired environment.

#### 1.3 Environment

An environment comprises a collection of Frameworks that are loaded into a given instance of Excel. When an Environment is launched, XL-Launcher generates the session file containing all of the information

2 XL-Launcher

pertaining to that environment, and then spawns an Excel subprocess. Excel loads Launcher.xla which consumes the session file and loads the indicated Frameworks.

#### 1.4 Framework

A Framework is a collection of related Components to be loaded into an Excel session. Typically a Framework corresponds to an Excel application. A Framework may include a list of Startup Parameters which allow the user to set values in the XL-Launcher UI which dictate aspects of the Framework's behavior. A Framework may also include Environment Variables.

### 1.5 Component

A Component is an object or file which can be loaded into Excel, such as a workbook (XLS), an Excel VBA Addin (XLA), or a C/C++ Addin (XLL).

### 1.6 Startup Parameter

A Startup Parameter is a key/value pair, a name which identifies a value which the XL-Launcher passes to Excel for use within a Framework. A Startup Parameter may be associated with a Windows control such as a Text Box which is used to display the parameter in the XL-Laucher UI when prompting the user for the associated value.

#### 1.7 Environment Variable

An Environment Variable is a Windows environment variable which the XL-Launcher sets before spawning the Excel subprocess. The definition of a Framework lists all of the Environment Variables recognized or required by that application.

## 1.8 Message

The Message object converts an Environment into an XML stream which is written by the XL-Launcher to the session file which is passed to the Excel subprocess. The Message object serializes the Environment object and all related objects, including Framework, Component, Startup Parameter, and Environment Variable.

# **Namespace Index**

## 2.1 Package List

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

Authentication
Authentication.XL_Launcher
Environments
Environments.XL_Launcher
Interface
Serialization
Serialization.XL_Launcher
Utilities
Utilities.XL_Launcher

4 Namespace Index

## **Class Index**

## 3.1 Class Hierarchy

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

Serialization.XL_Launcher.Factory	48
Interface.FormMain	49
Interface.FormVariableEdit	50
ICloneable	61
Environments.XL_Launcher.CheckBox	20
Environments.XL_Launcher.ComboBox	25
Environments.XL_Launcher.Component	28
Environments.XL_Launcher.DateTimePicker	32
Environments.XL_Launcher.Environment	38
Environments.XL_Launcher.Framework	50
Environments.XL_Launcher.GroupBox	57
Environments.XL_Launcher.KeyValuePair	65
Environments,XL_Launcher.StartupParameter	81
Environments.XL_Launcher.CheckBox	20
Environments.XL_Launcher.ComboBox	25
Environments.XL_Launcher.DateTimePicker	32
Environments.XL_Launcher.KeyValuePair	65
Environments.XL_Launcher.TextBox	83
Environments.XL_Launcher.TextBox	83
Serialization.XL_Launcher.ISerializable	61
ISerializable	62
Authentication.XL_Launcher.Authentication	17
Authentication.XL_Launcher.Domain	35
Authentication.XL_Launcher.Machine	68
Authentication.XL_Launcher.User	86
Environments.XL_Launcher.CheckBox	20
Environments XI. Launcher ComboBox	25

42

6 Class Index

Environments.XL_Launcher.Framework	50
Environments.XL_Launcher.GlobalAddin	54
Environments.XL_Launcher.GroupBox	57
Environments.XL_Launcher.KeyValuePair	55
Environments.XL_Launcher.Message	70
Environments.XL_Launcher.MessageFramework	13
Environments.XL_Launcher.MessageStartupParameter	16
Environments.XL_Launcher.TextBox	33
Utilities.XL_Launcher.Paths	19
Serialization.XL_Launcher.ISerializer	53
Serialization.XL_Launcher.XmlReader	39
Serialization, XL Launcher, XmlWriter	<b>)</b> 4

# **Class Index**

## 4.1 Class List

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

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 )	17
Utilities. Authentication Parameters	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 Environ-	
ments 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 in-	
stance 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 ses-	
sion and not to any particular Exceel 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 seri-	
alized )	61

8 Class Index

ISerializable
Serialization.XL_Launcher.ISerializer (Abstract interface for any object capable of reading or
writing a stream )
Environments.XL_Launcher.KeyValuePair
Authentication.XL_Launcher.Machine (Encapsulate the information relating to the current ma-
chine on which this instance of XL-Launcher is running. Used for authentication ) 6
Environments.XL_Launcher.Message (Generate the XML for the session file )
Environments.XL_Launcher.MessageFramework (Take a Framework object and generate the rel-
evant XML for the session file)
Environments.XL_Launcher.MessageStartupParameter (Take a Startup Parameter object and
generate the relevant XML for the session file )
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) 7
Environments.XL_Launcher.StartupParameter (A Key-Value pair. The StartupParameter encap-
sulates 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 trans-
mitted to Excel in the session file to be consumed by Launcher.xla )
Environments.XL_Launcher.TextBox
Authentication.XL_Launcher.User (Encapsulate the identity of the user under which the current
instance of XL-Launcher is running. Used for authentication )
Serialization.XL_Launcher.XmlReader (A concrete instance of an ISerializer for loading an
XML stream )
Serialization.XL_Launcher.XmlWriter (A concrete instance of an ISerializer for generating an
XML stream )

# **File Index**

## 5.1 File List

Here is a list of all documented files with brief descriptions:

Authentication.vb
Component.vb
Domain.vb
Environment.vb
EnvironmentList.vb
EnvironmentVariable.vb
Errors.vb
Factory.vb
FormMain.vb
FormMainAddins.vb
FormMainEnvironments.vb
FormMainVariables.vb
FormVariableEdit.vb
Framework.vb
Global Addin.vb
GroupBox.vb
ISerializable.vb
ISerializer.vb
Machine.vb
main.docs
Message.vb
MessageFramework.vb
MessageStartupParameter.vb
Paths.vb
Serialization.vb
StartupParameter.vb
User.vb
Utilities.vb
XmlReader.vb
XmlWriter.vb

10 File Index

# **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 13

## 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"

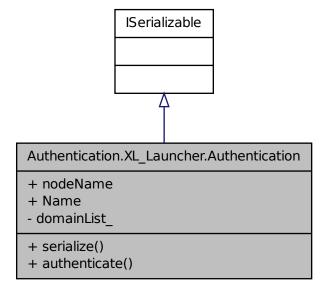
Namespace Documentation	Names	pace I	Ocum	entation
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# **Class Documentation**

## 7.1 Authentication.XL\_Launcher.Authentication Class Reference

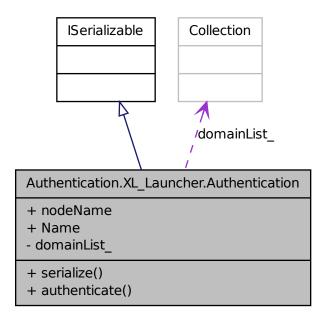
Encapsulate the functionality to serialize a stream of authentication data and the logic to determine whether the current user satisfies the given criteria for accessing the corresponding Environment.

 $Inheritance\ diagram\ for\ Authentication. XL\_Launcher. Authentication:$ 



18 Class Documentation

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. Authentication Parameters Struct Reference

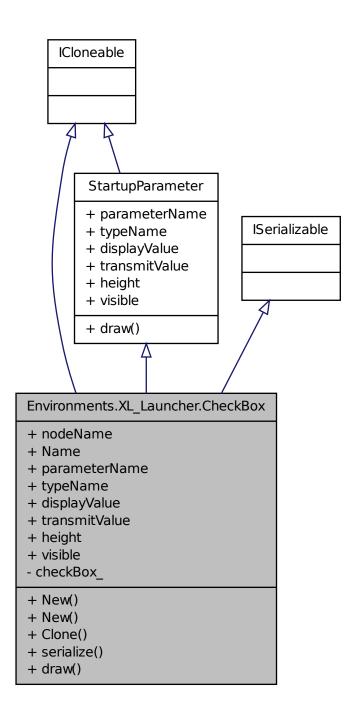
The documentation for this struct was generated from the following file:

• Utilities.vb

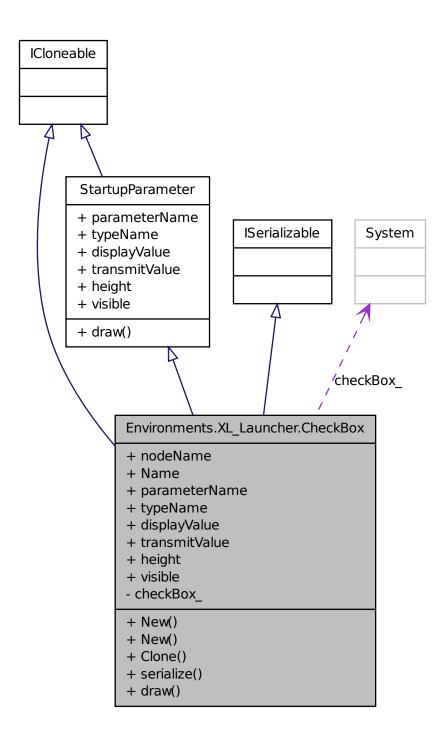
20 Class Documentation

## 7.3 Environments.XL\_Launcher.CheckBox Class Reference

Inheritance diagram for Environments.XL\_Launcher.CheckBox:



Collaboration diagram for Environments.XL\_Launcher.CheckBox:



22 Class Documentation

#### **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 display Value [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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

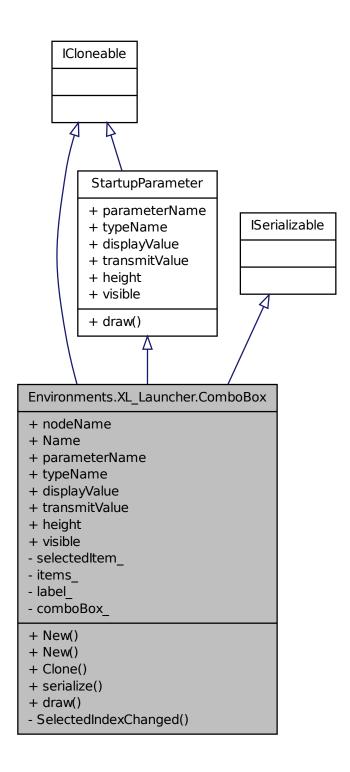
The documentation for this class was generated from the following file:

• StartupParameter.vb

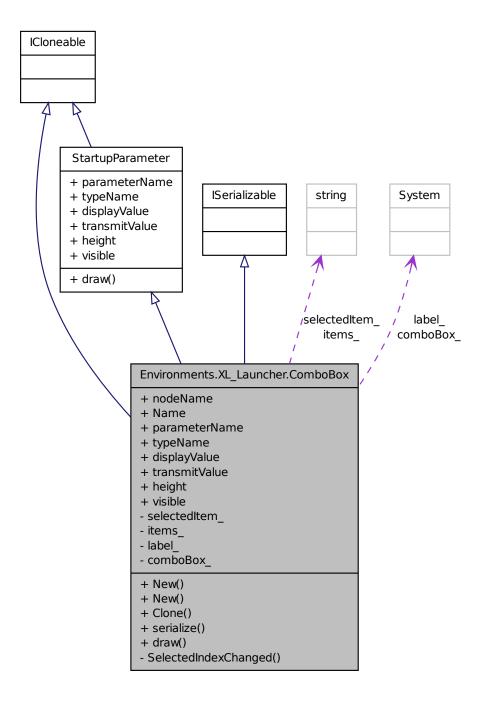
24 Class Documentation

### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 7.4.2.2 int Environments.XL\_Launcher.ComboBox.height [get]

Implements StartupParameter.height

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### $7.4.2.7 \quad string \ Environments. XL\_Launcher. Combo Box. type Name \quad \texttt{[get]}$

Implements StartupParameter.typeName

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 7.4.2.8 bool Environments.XL\_Launcher.ComboBox.visible [get]

Implements StartupParameter.visible

Implements Environments.XL Launcher.StartupParameter.

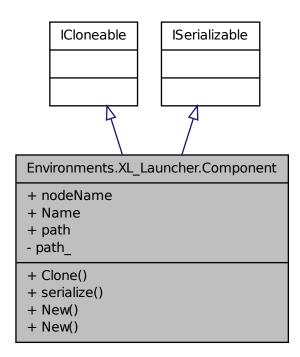
The documentation for this class was generated from the following file:

• StartupParameter.vb

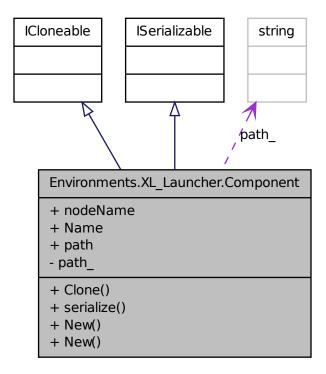
#### 7.5 Environments.XL\_Launcher.Component Class Reference

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]

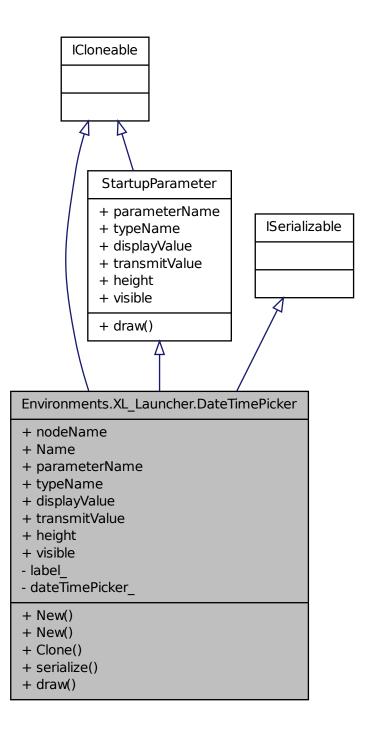
Properties Implements ISerializable.nodeName

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

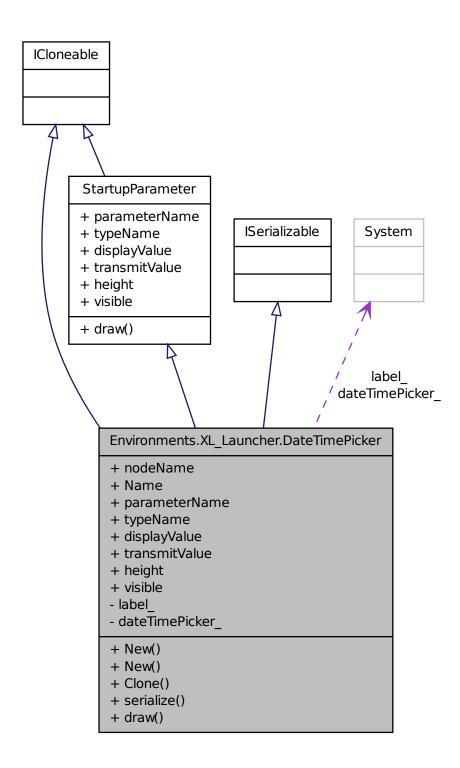
#### • Component.vb

### 7.6 Environments.XL\_Launcher.DateTimePicker Class Reference

 $Inheritance\ diagram\ for\ Environments. XL\_Launcher. Date Time Picker:$ 



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 display Value [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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 7.6.2.8 bool Environments.XL\_Launcher.DateTimePicker.visible [get]

Implements StartupParameter.visible

Implements Environments.XL Launcher.StartupParameter.

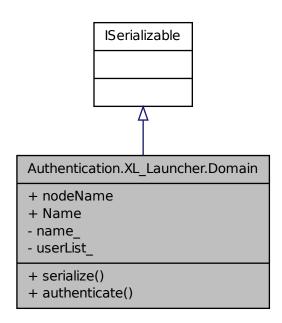
The documentation for this class was generated from the following file:

• StartupParameter.vb

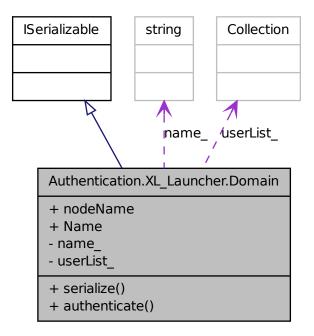
#### 7.7 Authentication.XL Launcher.Domain Class Reference

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	<b>Property</b>	<b>Documentation</b>

#### 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

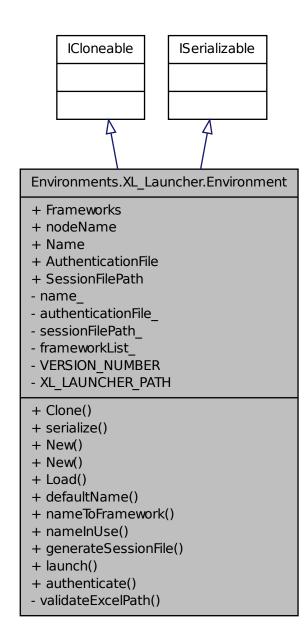
The documentation for this class was generated from the following file:

• Domain.vb

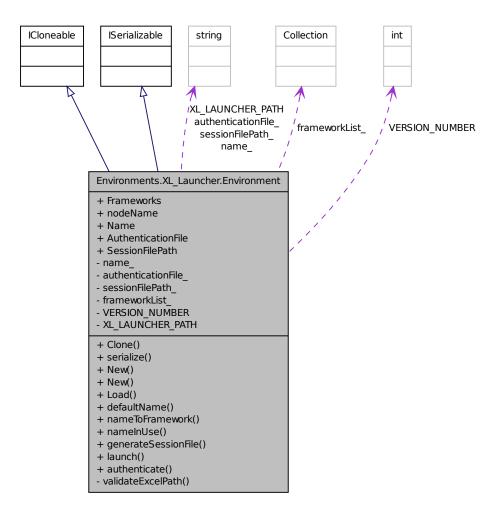
### 7.8 Environments.XL\_Launcher.Environment Class Reference

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 global-Addins)
- 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]

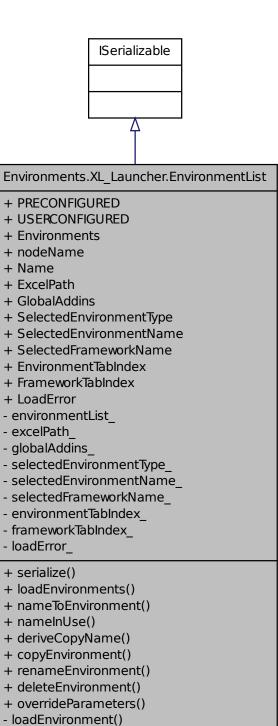
Implements ISerializable.nodeName
The documentation for this class was generated from the following file:

• Environment.vb

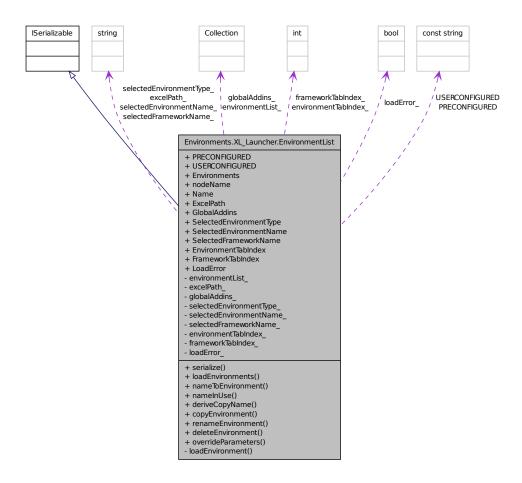
### 7.9 Environments.XL\_Launcher.EnvironmentList Class Reference

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 1)

#### **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]
```

#### 7.9.1 Detailed Description

• bool LoadError [get]

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

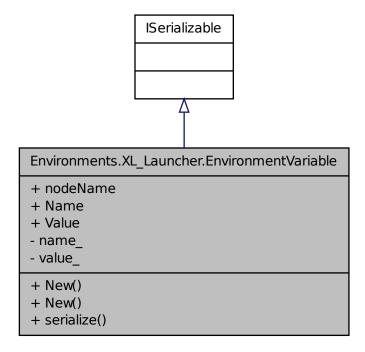
The documentation for this class was generated from the following file:

• EnvironmentList.vb

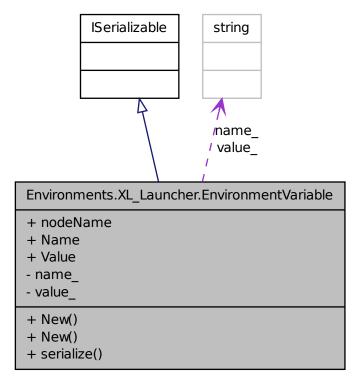
# 7.10 Environments.XL\_Launcher.EnvironmentVariable Class Reference

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.

 $Inheritance\ diagram\ for\ Environments. XL\_Launcher. Environment Variable:$ 



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

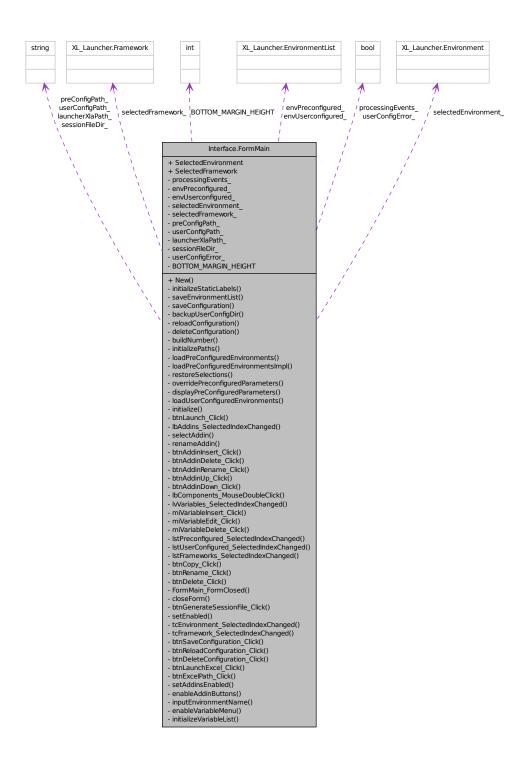
A Singleton utility for converting a type string into an instance of the corresponding object.

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.

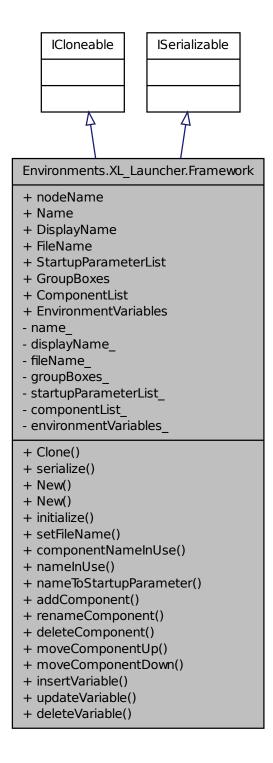
The documentation for this class was generated from the following file:

• FormVariableEdit.vb

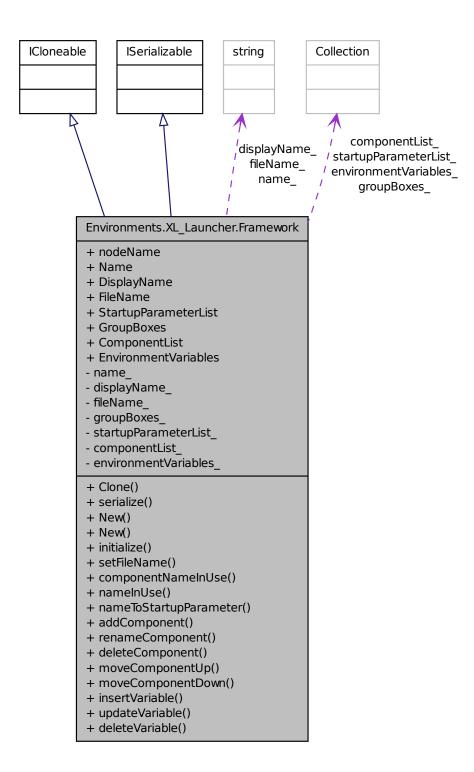
### 7.14 Environments.XL\_Launcher.Framework Class Reference

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]
- $\bullet \ \ Collection \ \ \textbf{StartupParameterList} \quad \texttt{[get]} \\$
- 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

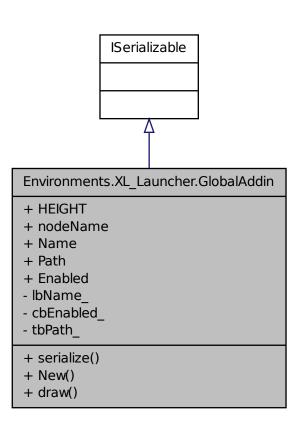
The documentation for this class was generated from the following file:

• Framework.vb

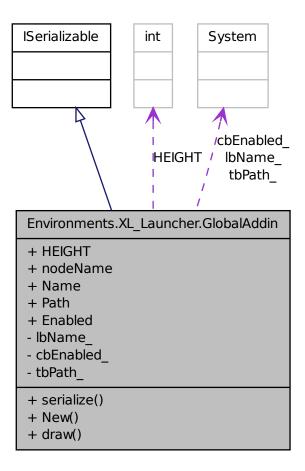
### 7.15 Environments.XL Launcher.GlobalAddin Class Reference

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:



 $Collaboration\ diagram\ for\ Environments. XL\_Launcher. Global Add in:$ 



#### **Public Member Functions**

- void serialize (ref ISerializer serializer, int versionNumber)
- void New ()
- $\bullet \ \ void \ \frac{draw}{draw} \ (ref \ System. Windows. Forms. Control. Control Collection \ c, \ int \ y) \\$

#### **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

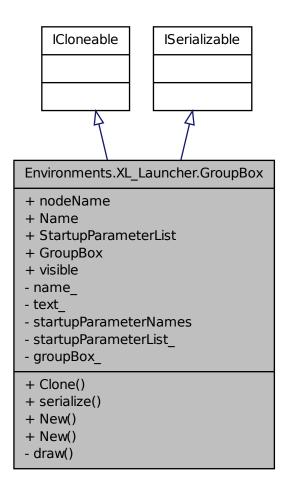
The documentation for this class was generated from the following file:

• GlobalAddin.vb

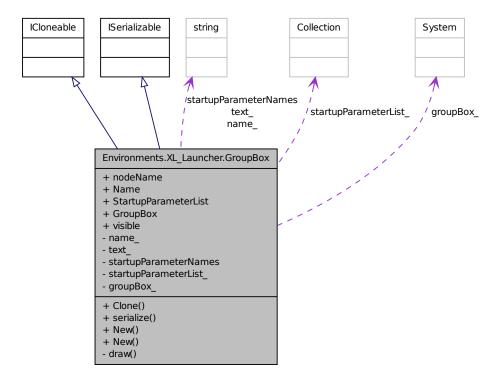
### 7.16 Environments.XL\_Launcher.GroupBox Class Reference

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.

60		<b>Class Documentation</b>
7.16.2	Member Function Documentation	
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

 $7.16.3.1 \quad string \ Environments. XL\_Launcher. Group Box. Name \quad \texttt{[get, set]}$ 

Implements ISerializable.Name

#### 7.16.3.2 string Environments.XL\_Launcher.GroupBox.nodeName [get]

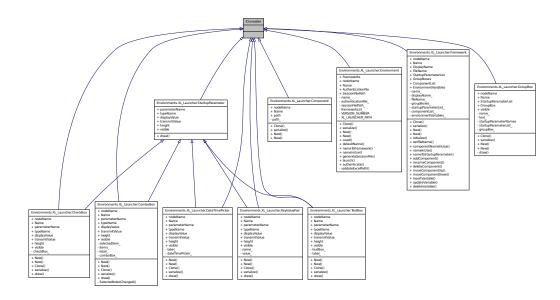
Properties Implements ISerializable.nodeName

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:



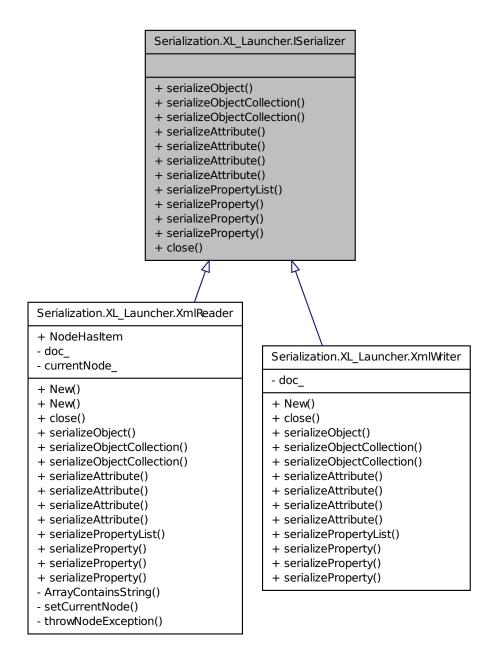
The documentation for this class was generated from the following files:

- 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[] class-Names, int versionNumber, bool nodeRequired=True, bool autoName=False, string collection-Name=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

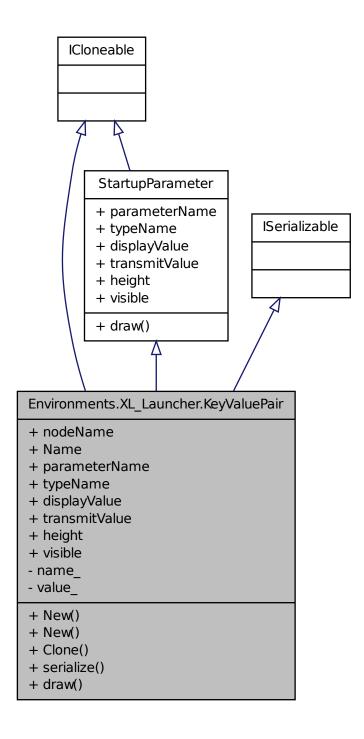
Abstract interface for any object capable of reading or writing a stream.

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

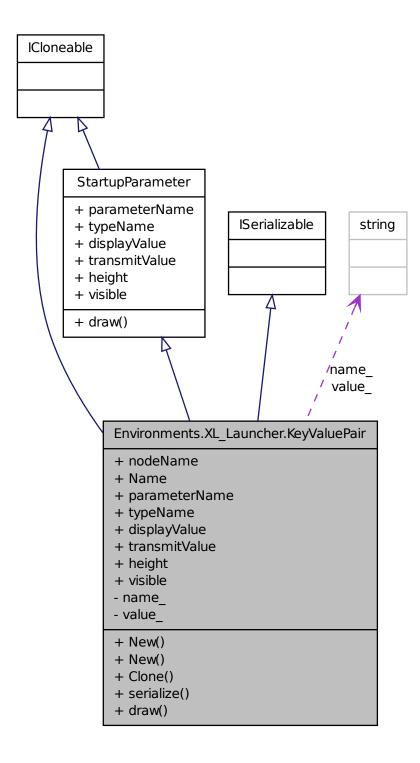
• ISerializer.vb

### 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 display Value [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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 7.21.2.6 object Environments.XL Launcher.KeyValuePair.transmitValue [qet]

Implements StartupParameter.transmitValue

Implements Environments.XL Launcher.StartupParameter.

#### 7.21.2.7 string Environments.XL\_Launcher.KeyValuePair.typeName [get]

Implements StartupParameter.typeName

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 7.21.2.8 bool Environments.XL\_Launcher.KeyValuePair.visible [get]

Implements StartupParameter.visible

Implements Environments.XL Launcher.StartupParameter.

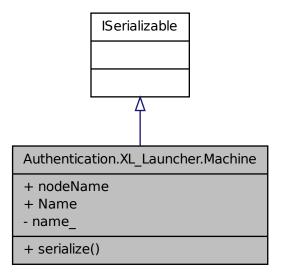
The documentation for this class was generated from the following file:

• StartupParameter.vb

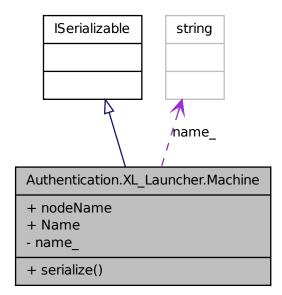
### 7.22 Authentication.XL Launcher.Machine Class Reference

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

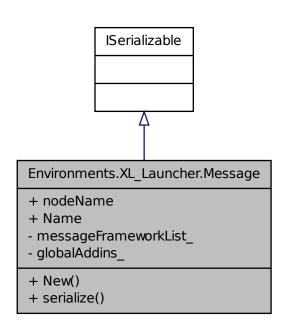
The documentation for this class was generated from the following file:

• Machine.vb

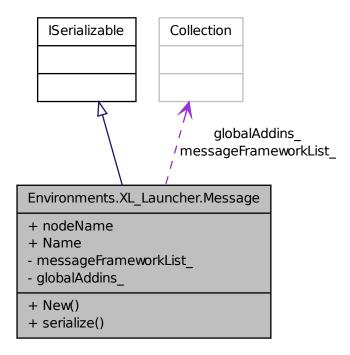
### 7.23 Environments.XL\_Launcher.Message Class Reference

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

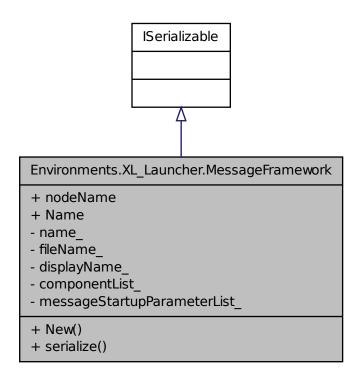
The documentation for this class was generated from the following file:

• Message.vb

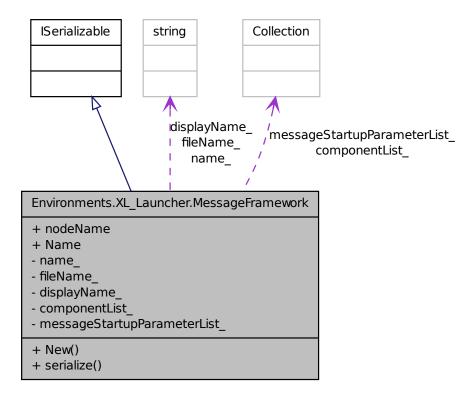
# 7.24 Environments.XL\_Launcher.MessageFramework Class Reference

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

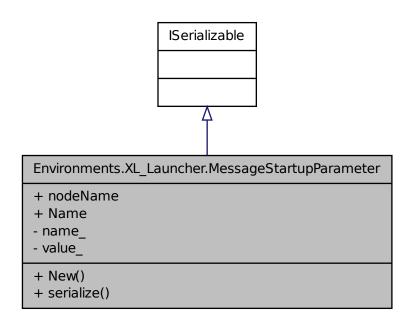
The documentation for this class was generated from the following file:

• MessageFramework.vb

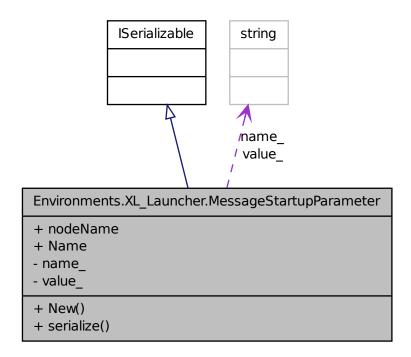
# 7.25 Environments.XL\_Launcher.MessageStartupParameter Class Reference

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

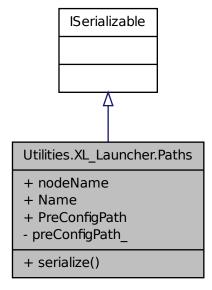
The documentation for this class was generated from the following file:

• MessageStartupParameter.vb

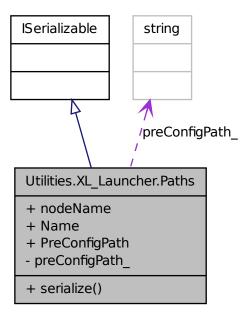
### 7.26 Utilities.XL\_Launcher.Paths Class Reference

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

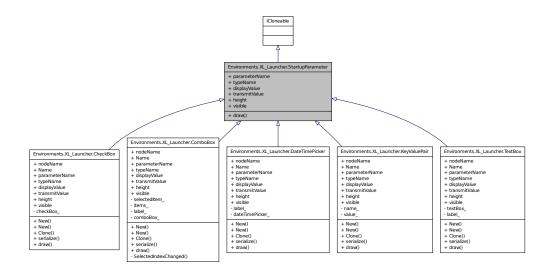
The documentation for this class was generated from the following file:

• Paths.vb

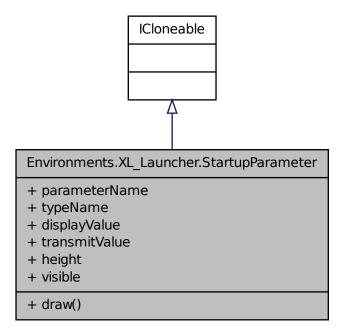
# 7.27 Environments.XL\_Launcher.StartupParameter Interface Reference

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.

 $Inheritance\ diagram\ for\ Environments. XL\_Launcher. Startup Parameter:$ 



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

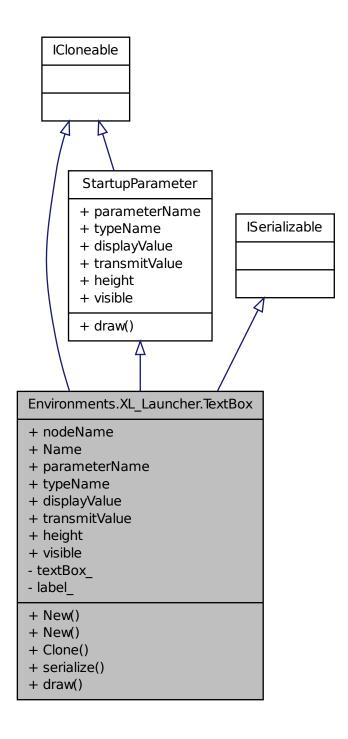
A Key-Value pair. The StartupParameter encapsulates some kind of control (e.g. TextBox, DatePicker) which is displayed in the UI in order to prompt the user for the corresponding data. Once collected the data is transmitted to Excel in the session file to be consumed by Launcher.xla.

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

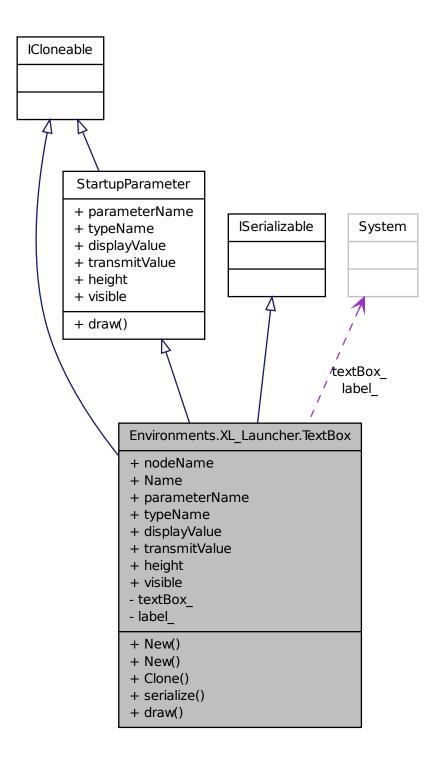
• StartupParameter.vb

## 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 display Value [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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 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

 $Implements\ Environments. XL\_Launcher. Startup Parameter.$ 

#### 7.28.2.8 bool Environments.XL\_Launcher.TextBox.visible [get]

Implements StartupParameter.visible

Implements Environments.XL Launcher.StartupParameter.

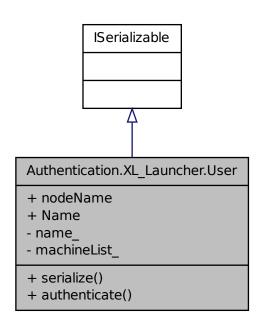
The documentation for this class was generated from the following file:

• StartupParameter.vb

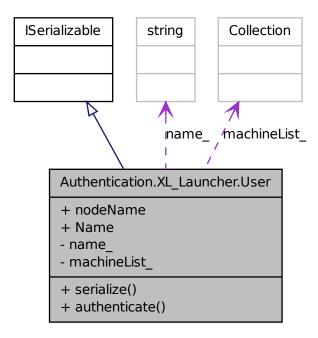
### 7.29 Authentication.XL Launcher.User Class Reference

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:

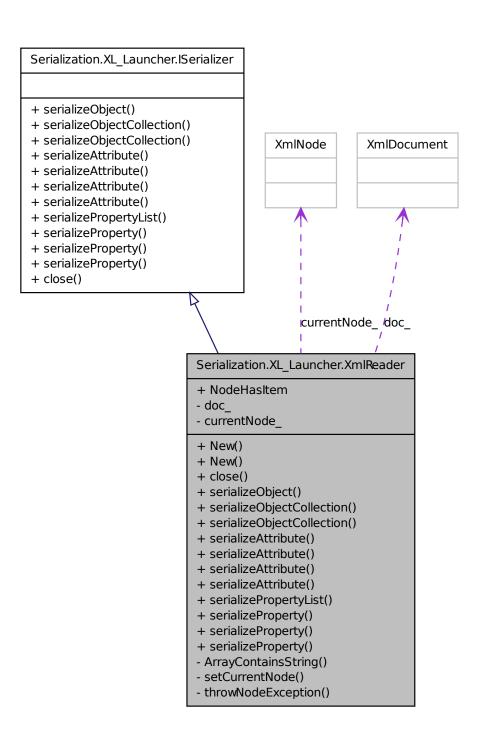
#### Serialization.XL Launcher.ISerializer

- + serializeObject()
- + serializeObjectCollection()
- + serializeObjectCollection()
- + serializeAttribute()
- + serializeAttribute()
- + serializeAttribute()
- + serializeAttribute()
- + serializePropertyList()
- + serializeProperty()
- + serializeProperty()
- + serializeProperty()
- + close()

#### $Serialization. XL\_Launcher. Xm IR eader$

- + NodeHasItem
- doc
- currentNode
- + New()
- + New()
- + close()
- + serializeObject()
- + serializeObjectCollection()
- + serializeObjectCollection()
- + serializeAttribute()
- + serializeAttribute()
- + serializeAttribute()
- + serializeAttribute()
- + serializePropertyList()
- + serializeProperty()
- + serializeProperty()
- + serializeProperty()
- ArrayContainsString()
- setCurrentNode()
- throwNodeException()

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 version-Number, 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 collection-Name=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 )

 $Implements\ ISerializer.serialize Object Collection$ 

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 )

 $Implements\ ISerializer.serialize Property List$ 

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

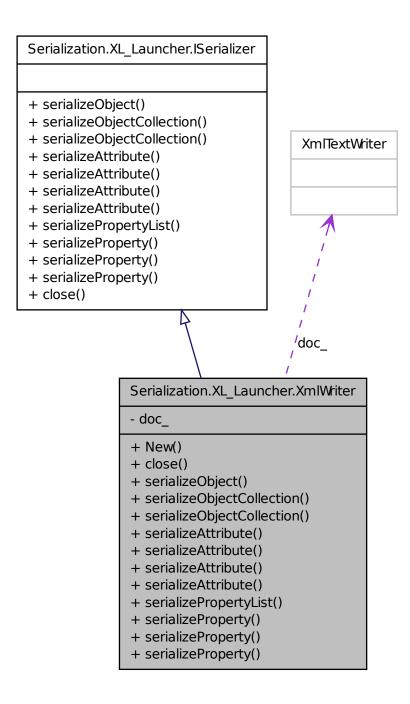
A concrete instance of an ISerializer for generating an XML stream.

Inheritance diagram for Serialization.XL\_Launcher.XmlWriter:

## + serializeObject() + serializeObjectCollection() + serializeObjectCollection() + serializeAttribute() + serializeAttribute() + serializeAttribute() + serializeAttribute() + serializePropertyList() + serializeProperty() + serializeProperty() + serializeProperty() + close() Serialization.XL\_Launcher.XmlWriter - doc\_ + New() + close() + serializeObject() + serializeObjectCollection() + serializeObjectCollection() + serializeAttribute() + serializeAttribute() + serializeAttribute() + serializeAttribute() + serializePropertyList() + serializeProperty() + serializeProperty() + serializeProperty()

Serialization.XL Launcher.ISerializer

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 version-Number, 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 collection-Name=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.

98 Class Documentation

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 )

 $Implements\ ISerializer.serialize Object Collection$ 

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 )

 $Implements\ ISerializer.serialize Property List$ 

 $Implements\ Serialization. XL\_Launcher. ISerializer.$ 

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

• XmlWriter.vb

100 Class Documentation

# **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.

- 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.

- package Environments
- package Environments.XL\_Launcher

### 8.14.1 Detailed Description

### 8.15 Global Addin.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.

- 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 node-Name)
- 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

- 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. Authentication Parameters

#### **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