OpenXMLMailMerge

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Namespace Index

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Hierarchical Index

2.1 Class Hierarchy

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

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    OpenXMLMailMerge.Core.OpenXMLDocument.Dictionary.DataDictionary 13
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Chapter 3

Class Index

3.1 Class List

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OpenXMLMailMerge.Core.OpenXMLDocument.Configuration.Configuration
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OpenXMLMailMerge.Core.OpenXMLDocument.Dictionary.DataDictionary
This class define the document's dictionary. Once the client sets the type of data, the tag and its value, the processor works on these data to merge fields. . . . 13
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A OpenXMLDocument as word processor. 41

Chapter 4

Namespace Documentation

4.1 OpenXMLMailMerge Namespace Reference

Namespaces

- namespace Core

Classes

- class OXMailMerge

  OpenXML MailMerge processor. This class manipulates the OpenXml document in order to process the mail merging.

Enumerations

- enum DocumentType { DocumentType.DOC, DocumentType.XLS, DocumentType.PPT }

  Type of document processor

4.1.1 Enumeration Type Documentation

4.1.1.1 enum OpenXMLMailMerge.DocumentType [strong]

Type of document processor

Enumerator

DOC Define a wordprocessor (.DOCX)

XLS Define a spreadsheet processor (.XLSX)

PPT Define a presentation processor (.PPTX)

Definition at line 6 of file DocumentType.cs.

```
00007     {
00011         DOC,
00015         XLS,
00019         PPT
00020     }
```

4.2 OpenXMLMailMerge.Core Namespace Reference

Namespaces

- namespace OpenXMLDocument

Classes

- class StringConst
  String constant utils.

4.3 OpenXMLMailMerge.Core.OpenXMLDocument Namespace Reference

Namespaces

- namespace Configuration
- namespace Dictionary
- namespace Document
- namespace Factory
- namespace ML

Classes

- class OpenXMLDocument
  The OpenXml document processor.

4.4 OpenXMLMailMerge.Core.OpenXMLDocument.Configuration Namespace Reference

Classes

- class Configuration
  User defined processor configuration to handle document's field with parameters Example of parameter: field=0=1...
- class GenericConfiguration
  Dynamic configuration set by user.

4.5 OpenXMLMailMerge.Core.OpenXMLDocument.Dictionary Namespace Reference

Classes

- class DataDictionary
  This class define the document's dictionary. Once the client sets the type of data, the tag and its value, the processor works on these data to merge fields.
- class MailMergeDataTypeEnumExtensions
  Extensions to display the name of the type.

Enumerations

- enum MailMergeDataTypeEnum { MailMergeDataTypeEnum.Regex, MailMergeDataTypeEnum.Image, MailMergeDataTypeEnum.Table }
  Type of data to merge fields.

4.5.1 Enumeration Type Documentation

4.5.1.1 enum OpenXMLMailMerge.Core.OpenXMLDocument.Dictionary.MailMergeDataTypeEnum [strong]

Type of data to merge fields.

Enumerator

Regex Regex is a single string to be replaced (using regex pattern).

Image Image is a array of byte to include within the document.

Table Table is a System.DataTable to include within the document.

Definition at line 8 of file MailMergeDataTypeEnum.cs.

```
00009     {
00013         Regex,
00017         Image,
00021         Table
00022     }
```

4.6 OpenXMLMailMerge.Core.OpenXMLDocument.Document Namespace Reference

Namespaces

- namespace Element

Classes

- class DocumentHandler

  OpenXmlDocument helper to handle the document's content.

4.7 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element Namespace Reference

Classes

- class ElementBuilder

  Builder to construct the OpenXml elements.
- class ImageElement

  Image element class.
- class ParagraphElement

  Paragraph element class.
- class ParagraphElementConfig

  Paragraph element definitions.
- class ParagraphElementConfigExtensions

  Extension to get the OpenXml justification enum.
- class RunElement

  Run element class.
- class TableElement

  Table element class.
- class TableElementConfig

Table element definitions class.

- class TextElement

  Text element class.

- class TextElementConfig

  Text element definitions.

4.8 OpenXMLMailMerge.Core.OpenXMLDocument.Factory Namespace Reference

Classes

- class DocumentFactory

  Document processor factory.

4.9 OpenXMLMailMerge.Core.OpenXMLDocument.ML Namespace Reference

Classes

- class WordprocessingML

  A OpenXMLDocument as word processor.

Chapter 5

Class Documentation

5.1 OpenXMLMailMerge.Core.OpenXMLDocument.Configuration.Configuration Class Reference

User defined processor configuration to handle document's field with parameters Example of parameter: field=0=1...

Package Functions

- virtual Configuration GenerateConfiguration (string arg)

  Generates configuration based on parameters set in field tag.

Properties

- GenericConfiguration GenericConfiguration `[get, private set]`

  Generic (dynamic) configuration. Free to be defined.

Private Member Functions

- Dictionary< string, Dictionary< string, object > > GetParameters (string arg)

  Gets the parameters of the text tag by splitting with defined delimiters A parameter should have the format: field=value.

5.1.1 Detailed Description

User defined processor configuration to handle document's field with parameters Example of parameter: field=0=1...

Definition at line 10 of file Configuration.cs.

5.1.2 Member Function Documentation

5.1.2.1 virtual Configuration OpenXMLMailMerge.Core.OpenXMLDocument.Configuration.Configuration.Generate↩ Configuration (string *arg*) `[package], [virtual]`

Generates configuration based on parameters set in field tag.

Parameters

arg	String to be parsed.

Returns

A dictionary with parameters and values defined by user.

Definition at line 22 of file Configuration.cs.

```
00023         {
00024             GenericConfiguration.Configuration = new Dictionary<string,
      object>();
00025             foreach (var item in GetParameters(arg))
00026             {
00027                 GenericConfiguration.Configuration.Add(item.Key, item.
      Value);
00028             }
00029
00030             return this;
00031         }
```

5.1.2.2 Dictionary<string, Dictionary<string, object> > OpenXMLMailMerge.Core.OpenXMLDocument.Configuration.↩ Configuration.GetParameters (string *arg*) [private]

Gets the parameters of the text tag by splitting with defined delimiters A parameter should have the format↩ : field=value.

Parameters

arg	String to be parsed.

Returns

A dictionary with parameters and values.

Definition at line 39 of file Configuration.cs.

```
00040         {
00041             var result = new Dictionary<string, Dictionary<string, object>>();
00042
00043             string key, value;
00044             string masterkey = string.Empty;
00045
00046             foreach (var item in arg.Split(StringConst.ID_DELIMITER_CHAR))
00047             {
00048                 if (item.Contains(StringConst.KEY_VALUE_DELIMITER))
00049                 {
00050                     var toSplit = item.Split(StringConst.KEY_VALUE_DELIMITER);
00051                     if (toSplit.Length > 0)
00052                     {
00053                         key = toSplit[0];
00054                         value = toSplit[1];
00055                         result[masterkey].Add(key, value);
00056                     }
00057                 }
00058                 else
00059                 {
00060                     masterkey = item.Trim();
00061                     result.Add(masterkey, new Dictionary<string, object>());
00062                 }
00063             }
00064
00065             return result;
00066         }
```

5.1.3 Property Documentation

5.1.3.1 GenericConfiguration OpenXMLMailMerge.Core.OpenXMLDocument.Configuration.Configuration.GenericConfiguration [get],[private set],[package]

Generic (dynamic) configuration. Free to be defined.

Definition at line 15 of file Configuration.cs.

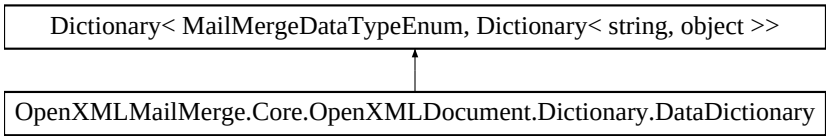
The documentation for this class was generated from the following file:

- Configuration.cs

5.2 OpenXMLMailMerge.Core.OpenXMLDocument.Dictionary.DataDictionary Class Reference

This class define the document's dictionary. Once the client sets the type of data, the tag and its value, the processor works on these data to merge fields.

Inheritance diagram for OpenXMLMailMerge.Core.OpenXMLDocument.Dictionary.DataDictionary:



5.2.1 Detailed Description

This class define the document's dictionary. Once the client sets the type of data, the tag and its value, the processor works on these data to merge fields.

Definition at line 10 of file DataDictionary.cs.

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

- DataDictionary.cs

5.3 OpenXMLMailMerge.Core.OpenXMLDocument.Factory.DocumentFactory Class Reference

Document processor factory.

Static Package Functions

- static OpenXMLDocument CreateDocument (DocumentType documentType)

  Creates a document processor by the document type.

5.3.1 Detailed Description

Document processor factory.

Definition at line 9 of file DocumentFactory.cs.

5.3.2 Member Function Documentation

5.3.2.1 static OpenXMLDocument OpenXMLMailMerge.Core.OpenXMLDocument.Factory.DocumentFactory.CreateDocument (DocumentType *documentType*) [static],[package]

Creates a document processor by the document type.

Parameters

documentType	Type of document processor.

Returns

OpenXmlDocument as document processor.

Definition at line 16 of file DocumentFactory.cs.

```
00017         {
00018             switch (documentType)
00019             {
00020                 case DocumentType.DOC:
00021                     return new WordprocessingML();
00022                 case DocumentType.XLS:
00023                     throw new NotImplementedException();//return new SpreadsheetML();
00024                 case DocumentType.PPT:
00025                     throw new NotImplementedException();//return new PresentationML();
00026                 default:
00027                     throw new ArgumentOutOfRangeException("invalid argument");
00028             }
00029         }
```

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

- DocumentFactory.cs

5.4 OpenXMLMailMerge.Core.OpenXMLDocument.Document.DocumentHandler Class Reference

OpenXmlDocument helper to handle the document's content.

Properties

- OpenXmlPackage Document `[get, set]`

  The OpenXmlPackage itself.
- MainDocumentPart Content `[get, set]`

  The main document part.
- ElementBuilder ElementBuilder `[get, set]`

  The element builder helper.

5.4.1 Detailed Description

OpenXmlDocument helper to handle the document's content.

Definition at line 9 of file DocumentHandler.cs.

5.4.2 Property Documentation

5.4.2.1 MainDocumentPart OpenXMLMailMerge.Core.OpenXMLDocument.Document.DocumentHandler.Content `[get], [set]`

The main document part.

Definition at line 18 of file DocumentHandler.cs.

5.4.2.2 OpenXmlPackage OpenXMLMailMerge.Core.OpenXMLDocument.Document.DocumentHandler.Document [get], [set]

The OpenXmlPackage itself.

Definition at line 14 of file DocumentHandler.cs.

5.4.2.3 ElementBuilder OpenXMLMailMerge.Core.OpenXMLDocument.Document.DocumentHandler.ElementBuilder [get], [set]

The element builder helper.

Definition at line 22 of file DocumentHandler.cs.

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

- DocumentHandler.cs

5.5 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ElementBuilder Class Reference

Builder to construct the OpenXml elements.

Public Member Functions

- Text CreateText (string text)

  Creates a Text element.
- Paragraph CreateParagraph (string text, JustificationValues justificationValue, TextElementConfig textElementConfig)

  Creates a paragraph element.
- Run CreateRun (string text, TextElementConfig textElementConfig)

  Creates a text with a parent Run element.
- Drawing CreateImage (byte[] data, OpenXmlPart part)

  Creates a image (drawing) element.
- Table CreateTable (int cols, TableElementConfig tableElementConfig=null)

  Creates a table element.
- TableRow CreateRow ()

  Creates a row element.
- TableCell CreateCell ()

  Creates a cell element.
- TableGrid CreateGrid (int cols=1)

  Creates a grid element.

5.5.1 Detailed Description

Builder to construct the OpenXml elements.

Definition at line 9 of file ElementBuilder.cs.

5.5.2 Member Function Documentation

5.5.2.1 TableCell OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ElementBuilder.CreateCell ( )

Creates a cell element.

Returns

OpenXml TableCell element.

Definition at line 79 of file ElementBuilder.cs.

```
00080         {
00081             return TableElement.CreateCell() as TableCell;
00082         }
```

5.5.2.2 TableGrid OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ElementBuilder.CreateGrid (int *cols* = 1)

Creates a grid element.

Parameters

cols	Number of columns.

Returns

OpenXml Grid element.

Definition at line 89 of file ElementBuilder.cs.

```
00090         {
00091             return TableElement.CreateGrid(cols) as TableGrid;
00092         }
```

5.5.2.3 Drawing OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ElementBuilder.CreateImage (byte[ ] *data*, OpenXmlPart *part*)

Creates a image (drawing) element.

Parameters

data	Byte array with image data.
part	Parent element.

Returns

OpenXml Drawing (image) element.

Definition at line 50 of file ElementBuilder.cs.

```
00051         {
00052             return ImageElement.CreateImage(data, part) as Drawing;
00053         }
```

5.5.2.4 Paragraph OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ElementBuilder.CreateParagraph (string *text*, JustificationValues *justificationValue*, TextElementConfig *textElementConfig*)

Creates a paragraph element.

Parameters

text	Text value.
justificationValue	Justification option.
textElement↩ Config	Text properties definitions.

Returns

OpenXml Text within a Run and Parent element.

Definition at line 28 of file ElementBuilder.cs.

```
00029         {
00030             return ParagraphElement.CreateParagraph(text, justificationValue,textElementConfig) as
      Paragraph;
00031         }
```

5.5.2.5 TableRow OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ElementBuilder.CreateRow ( )

Creates a row element.

Returns

OpenXml TableRow element.

Definition at line 70 of file ElementBuilder.cs.

```
00071         {
00072             return TableElement.CreateRow() as TableRow;
00073         }
```

5.5.2.6 Run OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ElementBuilder.CreateRun (string *text*, TextElementConfig *textElementConfig*)

Creates a text with a parent Run element.

Parameters

text	Text value.
textElement↩ Config	Text properties definitions.

Returns

OpenXml Text within a Run element.

Definition at line 39 of file ElementBuilder.cs.

```
00040         {
00041             return RunElement.CreateRunElement(text, textElementConfig) as Run;
00042         }
```

5.5.2.7 Table OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ElementBuilder.CreateTable (int *cols*, TableElementConfig *tableElementConfig* = `null`)

Creates a table element.

Parameters

cols	Number of columns.
tableElement↩ Config	Table properties definitions.

Returns

OpenXml Table element.

Definition at line 61 of file ElementBuilder.cs.

```
00062         {
00063             return TableElement.CreateTable(cols, tableElementConfig) as Table;
00064         }
```

5.5.2.8 Text OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ElementBuilder.CreateText (string *text*)

Creates a Text element.

Parameters

text	Text value.

Returns

OpenXml Text element.

Definition at line 16 of file ElementBuilder.cs.

```
00017         {
00018             return TextElement.CreateText(text) as Text;
00019         }
```

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

- ElementBuilder.cs

5.6 OpenXMLMailMerge.Core.OpenXMLDocument.Configuration.GenericConfiguration Class Reference

Dynamic configuration set by user.

Properties

- dynamic Configuration `[get, set]`

  Dynamic property to be used as needed. The default object is a dictionary.

5.6.1 Detailed Description

Dynamic configuration set by user.

Definition at line 6 of file GenericConfiguration.cs.

5.6.2 Property Documentation

5.6.2.1 dynamic OpenXMLMailMerge.Core.OpenXMLDocument.Configuration.GenericConfiguration.Configuration [get], [set]

Dynamic property to be used as needed. The default object is a dictionary.

Definition at line 12 of file GenericConfiguration.cs.

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

- GenericConfiguration.cs

5.7 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ImageElement Class Reference

Image element class.

Static Package Functions

- static OpenXmlElement CreateImage (byte[ ] data, OpenXmlPart documentPart)

  Creates a Drawing OpenXml element.

5.7.1 Detailed Description

Image element class.

Definition at line 15 of file ImageElement.cs.

5.7.2 Member Function Documentation

5.7.2.1 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ImageElement.CreateImage (byte[ ] *data*, OpenXmlPart *documentPart*) [static], [package]

Creates a Drawing OpenXml element.

Parameters

data	Byte array of the image data.
documentPart	Parent element.

Returns

Generic OpenXmlElement.

Definition at line 23 of file ImageElement.cs.

```
00024         {
00025             if (documentPart == null)
00026                 throw new ArgumentNullException("Invalid document");
00027 
00028             if (data.Length == 0 || data == null)
00029                 return null;
00030 
00031             MemoryStream stream = new MemoryStream();
00032             stream.Write(data, 0, data.Length);
00033             stream.Seek(0, SeekOrigin.Begin);
00034 
00035             var relationshipId = $"r{new Random().Next().ToString()}";
```

```
00036             ImagePart imagePart = documentPart.AddNewPart<ImagePart>("image/jpeg", relationshipId);
00037
00038             imagePart.FeedData(stream);
00039
00040             var randID = new Random().Next();
00041             var randomName = randID.ToString();
00042
00043             var imageElement = new Drawing(
00044                 new DW.Inline(new DW.Extent() { Cx = 990000L, Cy = 792000L },
00045                     new DW.EffectExtent()
00046                     {
00047                         LeftEdge = 0L,
00048                         TopEdge = 0L,
00049                         RightEdge = 0L,
00050                         BottomEdge = 0L
00051                     },
00052                     new DW.DocProperties()
00053                     {
00054                         Id = Convert.ToUInt32(randID),
00055                         Name = $"Pic{randomName}"
00056                     },
00057                     new DW.NonVisualGraphicFrameDrawingProperties(
00058                         new A.GraphicFrameLocks() { NoChangeAspect = true }),
00059                     new A.Graphic(
00060                         new A.GraphicData(
00061                             new PIC.Picture(
00062                                 new PIC.NonVisualPictureProperties(
00063                                     new PIC.NonVisualDrawingProperties()
00064                                     {
00065                                         Id = Convert.ToUInt32(new Random().Next()),
00066                                         Name = $"Img{randomName}.jpg"
00067                                     },
00068                                     new PIC.NonVisualPictureDrawingProperties()),
00069                                 new PIC.BlipFill(
00070                                     new A.Blip(
00071                                         new A.BlipExtensionList(
00072                                             new A.BlipExtension() { Uri = "
      {28A0092B-C50C-407E-A947-70E740481C1C}" }
00073                                             )
00074                                     )
00075                                     {
00076                                         Embed = relationshipId,
00077                                         CompressionState = A.BlipCompressionValues.Print
00078                                     },
00079                                     new A.Stretch(
00080                                         new A.FillRectangle())),
00081                                 new PIC.ShapeProperties(
00082                                     new A.Transform2D(
00083                                         new A.Offset() { X = 0L, Y = 0L },
00084                                         new A.Extents() { Cx = 990000L, Cy = 792000L }),
00085                                     new A.PresetGeometry(
00086                                         new A.AdjustValueList()
00087                                     )
00088                                     { Preset = A.ShapeTypeValues.Rectangle }))
00089                         )
00090                         { Uri = "http://schemas.openxmlformats.org/drawingml/2006/picture" })
00091                 )
00092                 {
00093                     DistanceFromTop = (UInt32Value)0U,
00094                     DistanceFromBottom = (UInt32Value)0U,
00095                     DistanceFromLeft = (UInt32Value)0U,
00096                     DistanceFromRight = (UInt32Value)0U,
00097                 });
00098
00099             return imageElement;
00100         }
```

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

- ImageElement.cs

5.8 OpenXMLMailMerge.Core.OpenXMLDocument.Dictionary.MailMergeDataType↩ EnumExtensions Class Reference

Extensions to display the name of the type.

Static Package Functions

- static string **Description** (this MailMergeDataTypeEnum mailMergeDataType)

5.8.1 Detailed Description

Extensions to display the name of the type.

Definition at line 27 of file MailMergeDataTypeEnum.cs.

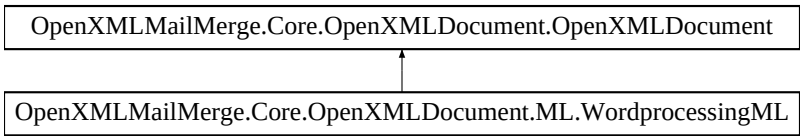
The documentation for this class was generated from the following file:

- MailMergeDataTypeEnum.cs

5.9 OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument Class Reference

The OpenXml document processor.

Inheritance diagram for OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument:



Classes

- class OpenXMLDocumentSettings
  OpenXMLDocument definitions.

Public Member Functions

- void AddToDictionary (MailMergeDataTypeEnum dataType, string id, object data)
  Adds a data to the dictionary to be merged.
- virtual void SaveToFile ()
  Saves the temporary file.
- virtual void SaveToFile (string path)
  Saves the temporary file.
- virtual void SaveToFile (string path, Stream stream)
  Saves the temporary stream to file.
- virtual OpenXMLDocument LoadFromFile (string path, bool isEditable=true, bool removeCopy=false, bool autoSave=false)
  Loads a document from file.
- virtual OpenXMLDocument LoadFromBytes (byte[ ] bytes, string tempPath, bool removeCopy=false, bool autoSave=false)
  Loads a document from byte array.
- virtual byte[ ] GetBytes ()
  Gets the document byte array.
- virtual void Terminate ()
  Closes the document and streams.
- virtual void Process ()
  Process the document applying the mail merge.

Properties

- OpenXMLDocumentSettings DocumentSettings [get, set]

  Document settings.
- DataDictionary Dictionary [get, set]

  The data dictionary with the merge content and attributes to be processed.
- DocumentHandler ContentManager = new DataDictionary() [get, set]

  Manages the document content.

Private Member Functions

- void Validate ()

  Validates the document, content and dictionary.

5.9.1 Detailed Description

The OpenXml document processor.

Definition at line 14 of file OpenXMLDocument.cs.

5.9.2 Member Function Documentation

5.9.2.1 void OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.AddToDictionary (MailMergeDataTypeEnum *dataType*, string *id*, object *data*)

Adds a data to the dictionary to be merged.

Parameters

dataType	The mailmerge data type.
id	The document's field id.
data	Data to replace the field.

Definition at line 56 of file OpenXMLDocument.cs.

```
00057         {
00058             if (!Dictionary.ContainsKey(dataType))
00059             {
00060                 var tmpDictionary = new Dictionary<string, object>();
00061                 Dictionary.Add(dataType, tmpDictionary);
00062             }
00063 
00064             Dictionary[dataType].Add(id, data);
00065         }
```

5.9.2.2 virtual byte [ ] OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.GetBytes ( ) [virtual]

Gets the document byte array.

Returns

Array of byte with document's content.

Reimplemented in OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.

Definition at line 156 of file OpenXMLDocument.cs.

```
00157         {
00158             ContentManager.Document.Close();
00159             return File.ReadAllBytes(DocumentSettings.TempPath).Clone() as byte[];
00160         }
```

5.9.2.3 virtual OpenXMLDocument OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.LoadFromBytes (byte[ ] *bytes*, string *tempPath*, bool *removeCopy* = `false`, bool *autoSave* = `false`) [virtual]

Loads a document from byte array.

Parameters

bytes	Array of bytes with file content.
tempPath	Temporary file path.
removeCopy	Whether should remove a copy or not.
autoSave	Whether it should auto save the document.

Returns

OpenXMLDocument processor.

Reimplemented in OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.

Definition at line 126 of file OpenXMLDocument.cs.

```
00127         {
00128             try
00129             {
00130                 if (string.IsNullOrWhiteSpace(tempPath))
00131                     throw new ArgumentNullException("Invalid path");
00132 
00133                 var fileName = Path.GetFileNameWithoutExtension(tempPath);
00134                 var filePath = Path.GetDirectoryName(tempPath);
00135 
00136                 DocumentSettings = new OpenXMLDocumentSettings()
00137                 {
00138                     RemoveFileCopy = removeCopy,
00139                     TempPath = Path.Combine(filePath, fileName + Convert.ToString(new Random().Next()))
00140                 };
00141 
00142                 File.WriteAllBytes(DocumentSettings.TempPath, bytes);
00143 
00144                 return this;
00145             }
00146             catch (Exception)
00147             {
00148                 throw;
00149             }
00150         }
```

5.9.2.4 virtual OpenXMLDocument OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.LoadFromFile (string *path*, bool *isEditable* = `true`, bool *removeCopy* = `false`, bool *autoSave* = `false`) [virtual]

Loads a document from file.

Parameters

path	Path of the document.
isEditable	Whether is a editable copy.
removeCopy	Whether should remove a copy or not.
autoSave	Whether it should auto save the document.

Returns

OpenXMLDocument processor.

Reimplemented in OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.

Definition at line 102 of file OpenXMLDocument.cs.

```
00103         {
00104             var fileName = Path.GetFileNameWithoutExtension(path);
00105             var filePath = Path.GetDirectoryName(path);
```

```
00106
00107             DocumentSettings = new OpenXMLDocumentSettings()
00108             {
00109                 RemoveFileCopy = removeCopy,
00110                 TempPath = Path.Combine(filePath, fileName + Convert.ToString(new Random().Next()))
00111             };
00112
00113             File.Copy(path, DocumentSettings.TempPath);
00114
00115             return this;
00116         }
```

5.9.2.5 virtual void OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.Process ( ) [virtual]

Process the document applying the mail merge.

Reimplemented in OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.

Definition at line 203 of file OpenXMLDocument.cs.

```
00204         {
00205             try
00206             {
00207                 Validate();
00208             }
00209             catch (Exception)
00210             {
00211                 throw;
00212             }
00213         }
```

5.9.2.6 virtual void OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.SaveToFile ( ) [virtual]

Saves the temporary file.

Reimplemented in OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.

Definition at line 70 of file OpenXMLDocument.cs.

```
00071         {
00072             throw new InvalidOperationException("Invalid call");
00073         }
```

5.9.2.7 virtual void OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.SaveToFile (string *path*) [virtual]

Saves the temporary file.

Parameters

path	Path to save.

Reimplemented in OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.

Definition at line 79 of file OpenXMLDocument.cs.

```
00080         {
00081             throw new NotImplementedException();
00082         }
```

5.9.2.8 virtual void OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.SaveToFile (string *path*, Stream *stream*) [virtual]

Saves the temporary stream to file.

Parameters

path	Path to save.
stream	Document's data stream.

Definition at line 89 of file OpenXMLDocument.cs.

```
00090         {
00091             throw new NotImplementedException();
00092         }
```

5.9.2.9 virtual void OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.Terminate ( ) [virtual]

Closes the document and streams.

Definition at line 180 of file OpenXMLDocument.cs.

```
00181         {
00182             ContentManager.Document.Close();
00183             ContentManager = null;
00184             Dictionary = null;
00185             if (DocumentSettings.RemoveFileCopy)
00186             {
00187                 try
00188                 {
00189                     File.Delete(DocumentSettings.TempPath);
00190                 }
00191                 catch (Exception)
00192                 {
00193 
00194                     throw;
00195                 }
00196             }
00197             DocumentSettings = null;
00198         }
```

5.9.2.10 void OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.Validate ( ) [private]

Validates the document, content and dictionary.

Definition at line 165 of file OpenXMLDocument.cs.

```
00166         {
00167             if (ContentManager == null)
00168                 throw new NullReferenceException("Content not found");
00169 
00170             if (ContentManager.Document == null)
00171                 throw new NullReferenceException("Document not found");
00172 
00173             if (Dictionary == null || Dictionary.Count == 0)
00174                 throw new InvalidOperationException("No data to merge");
00175         }
```

5.9.3 Property Documentation

5.9.3.1 DocumentHandler OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.ContentManager = new DataDictionary() [get], [set], [protected]

Manages the document content.

Definition at line 48 of file OpenXMLDocument.cs.

5.9.3.2 DataDictionary OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.Dictionary [get], [set], [protected]

The data dictionary with the merge content and attributes to be processed.

Definition at line 43 of file OpenXMLDocument.cs.

5.9.3.3 OpenXMLDocumentSettings OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.DocumentSettings [get],[set],[protected]

Document settings.

Definition at line 38 of file OpenXMLDocument.cs.

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

- OpenXMLDocument.cs

5.10 OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.OpenXMLDocumentSettings Class Reference

OpenXMLDocument definitions.

Properties

- string TempPath [get, set]

  Temporary path.
- bool RemoveFileCopy [get, set]

  Sets whether it should remove the temporary copy.
- bool AutoSave [get, set]

  Indicates whether the file should be saved automatically.

5.10.1 Detailed Description

OpenXMLDocument definitions.

Definition at line 19 of file OpenXMLDocument.cs.

5.10.2 Property Documentation

5.10.2.1 bool OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.OpenXMLDocumentSettings.AutoSave [get],[set]

Indicates whether the file should be saved automatically.

Definition at line 32 of file OpenXMLDocument.cs.

5.10.2.2 bool OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.OpenXMLDocumentSettings.RemoveFileCopy [get],[set]

Sets whether it should remove the temporary copy.

Definition at line 28 of file OpenXMLDocument.cs.

5.10.2.3 string OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.OpenXMLDocumentSettings.TempPath [get],[set]

Temporary path.

Definition at line 24 of file OpenXMLDocument.cs.

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

- OpenXMLDocument.cs

5.11 OpenXMLMailMerge.OXMailMerge Class Reference

OpenXML MailMerge processor. This class manipulates the OpenXml document in order to process the mail merging.

Public Member Functions

- OXMailMerge ()

  Default constructor.
- OXMailMerge (DocumentType documentType)

  Creates a OpenXMLMailMerge instance with a specific document processor.
- OXMailMerge (OpenXMLDocument externalDocumentProcessor)

  Creates a OpenXMLMailMerge instance with a external document processor.
- OpenXMLDocument CreateDocument (DocumentType documentType)

  Creates a document by type.
- void Terminate ()

  Sets the process to end and close all streams.
- void Process ()

  Process a document and executes the mail merging activity.

Properties

- OpenXMLDocument Document `[get, set]`

  Document processor handler.

5.11.1 Detailed Description

OpenXML MailMerge processor. This class manipulates the OpenXml document in order to process the mail merging.

Definition at line 11 of file OXMailMerge.cs.

5.11.2 Constructor & Destructor Documentation

5.11.2.1 OpenXMLMailMerge.OXMailMerge.OXMailMerge ( )

Default constructor.

Definition at line 21 of file OXMailMerge.cs.

```
00021 { }
```

5.11.2.2 OpenXMLMailMerge.OXMailMerge.OXMailMerge (DocumentType *documentType*)

Creates a OpenXMLMailMerge instance with a specific document processor.

Parameters

documentType	Type of document processor.

Definition at line 27 of file OXMailMerge.cs.

```
00028         {
00029             CreateDocument(documentType);
00030         }
```

5.11.2.3 OpenXMLMailMerge.OXMailMerge.OXMailMerge (OpenXMLDocument *externalDocumentProcessor*)

Creates a OpenXMLMailMerge instance with a external document processor.

Parameters

external↩ Document↩ Processor	External OpenXMLDocument processor.

Definition at line 36 of file OXMailMerge.cs.

```
00037         {
00038             Document = externalDocumentProcessor;
00039         }
```

5.11.3 Member Function Documentation

5.11.3.1 OpenXMLDocument OpenXMLMailMerge.OXMailMerge.CreateDocument (DocumentType *documentType*)

Creates a document by type.

Parameters

documentType	Type of document processor.

Returns

OpenXMLDocument processor.

Definition at line 46 of file OXMailMerge.cs.

```
00047         {
00048             Document = DocumentFactory.CreateDocument(documentType);
00049             return Document;
00050         }
```

5.11.3.2 void OpenXMLMailMerge.OXMailMerge.Process ( )

Process a document and executes the mail merging activity.

Definition at line 71 of file OXMailMerge.cs.

```
00072         {
00073             Document.Process();
00074         }
```

5.11.3.3 void OpenXMLMailMerge.OXMailMerge.Terminate ( )

Sets the process to end and close all streams.

Definition at line 55 of file OXMailMerge.cs.

```
00056         {
00057             try
00058             {
00059                 Document.Terminate();
00060             }
00061             catch (Exception)
00062             {
00063
00064                 throw;
00065             }
00066         }
```

5.11.4 Property Documentation

5.11.4.1 OpenXMLDocument OpenXMLMailMerge.OXMailMerge.Document [get], [set]

Document processor handler.

Definition at line 16 of file OXMailMerge.cs.

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

- OXMailMerge.cs

5.12 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.Paragraph↩ Element Class Reference

Paragraph element class.

Static Package Functions

- static OpenXmlElement CreateParagraphProperties (ParagraphElementConfig paragraphElement↩ Config=null)

  Creates the OpenXml ParagraphProperties.
- static OpenXmlElement CreateParagraph (string text=null, JustificationValues justificationValue=Justification↩ Values.Left, TextElementConfig textElementConfig=null)

  Creates a Paragraph OpenXmlElement.

5.12.1 Detailed Description

Paragraph element class.

Definition at line 9 of file ParagraphElement.cs.

5.12.2 Member Function Documentation

5.12.2.1 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ParagraphElement.Create↩ Paragraph (string *text* = null, JustificationValues *justificationValue* = JustificationValues.Left, TextElementConfig *textElementConfig* = null) [static], [package]

Creates a Paragraph OpenXmlElement.

Parameters

text	Text value.
justificationValue	Justification option.
textElement↩ Config	Text properties definitions.

Returns

Definition at line 31 of file ParagraphElement.cs.

```
00032         {
00033             var paragraphConfig = new ParagraphElementConfig() { Justification = justificationValue };
00034             var paragraphProperties = CreateParagraphProperties(paragraphConfig);
00035             var result = new Paragraph() { ParagraphProperties = paragraphProperties as ParagraphProperties
      };
00036 
00037             if (text != null)
00038             {
00039                 if (textElementConfig == null)
00040                     textElementConfig = new TextElementConfig();
00041 
00042                 var runProperties = RunElement.CreateRunProperties(textElementConfig);
00043                 var textElement = RunElement.CreateRunElement(text, textElementConfig);
00044                 result.Append(textElement);
00045             }
00046 
00047             return result;
00048         }
```

5.12.2.2 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ParagraphElement.↩ CreateParagraphProperties (ParagraphElementConfig *paragraphElementConfig* = `null`) [static], [package]

Creates the OpenXml ParagraphProperties.

Parameters

paragraph↩ ElementConfig	Paragraph definitions.

Returns

Paragraph OpenXmlElement.

Definition at line 16 of file ParagraphElement.cs.

```
00017         {
00018             if (paragraphElementConfig == null)
00019                 paragraphElementConfig = new ParagraphElementConfig();
00020 
00021             return new ParagraphProperties() { Justification = paragraphElementConfig.GetValue() };
00022         }
```

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

- ParagraphElement.cs

5.13 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.Paragraph↩ ElementConfig Class Reference

Paragraph element definitions.

Properties

- JustificationValues Justification `[get, set]`

  Justification option.

5.13.1 Detailed Description

Paragraph element definitions.

Definition at line 8 of file ParagraphElementConfig.cs.

5.13.2 Property Documentation

5.13.2.1 JustificationValues OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ParagraphElementConfig.↩ Justification `[get],[set],[package]`

Justification option.

Definition at line 13 of file ParagraphElementConfig.cs.

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

- ParagraphElementConfig.cs

5.14 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.Paragraph↩ ElementConfigExtensions Class Reference

Extension to get the OpenXml justification enum.

Static Package Functions

- static Justification GetValue (this ParagraphElementConfig paragraphElementConfig)

  Gets the OpenXml Justification enum value

5.14.1 Detailed Description

Extension to get the OpenXml justification enum.

Definition at line 19 of file ParagraphElementConfig.cs.

5.14.2 Member Function Documentation

5.14.2.1 static Justification OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.ParagraphElement↩ ConfigExtensions.GetValue (this ParagraphElementConfig *paragraphElementConfig*) `[static], [package]`

Gets the OpenXml Justification enum value

Parameters

paragraph↩ ElementConfig	Paragraph element definition.

Returns

OpenXml Justification.

Definition at line 26 of file ParagraphElementConfig.cs.

```
00027         {
00028             return new Justification() { Val = paragraphElementConfig.Justification };
00029         }
```

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

- ParagraphElementConfig.cs

5.15 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.RunElement Class Reference

Run element class.

Static Package Functions

- static OpenXmlElement CreateRunProperties (TextElementConfig textElementConfig=null)

  Creates Run element properties.
- static OpenXmlElement CreateRunElement (string text=null, TextElementConfig textElementConfig=null)

  Creates Run OpenXmlElement wth a text (optionally).

5.15.1 Detailed Description

Run element class.

Definition at line 9 of file RunElement.cs.

5.15.2 Member Function Documentation

5.15.2.1 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.RunElement.Create↩ RunElement (string *text* = `null`, TextElementConfig *textElementConfig* = `null`) `[static]`, `[package]`

Creates Run OpenXmlElement wth a text (optionally).

Parameters

text	Text value.
textElement↩ Config	Text properties definitions.

Returns

Run OpenXmlElement.

Definition at line 35 of file RunElement.cs.

```
00036         {
00037             var result = new Run();
00038 
00039             if (textElementConfig != null)
00040             {
00041                 var runProperties = CreateRunProperties(textElementConfig);
00042                 result.RunProperties = runProperties as RunProperties;
00043             }
00044 
00045             if (text == null)
00046                 return result;
00047 
00048             var textElement = TextElement.CreateText(text);
00049             result.Append(textElement);
00050             return result;
00051         }
```

5.15.2.2 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.Run↩ Element.CreateRunProperties (TextElementConfig *textElementConfig* = `null`) [static], [package]

Creates Run element properties.

Parameters

textElement↩ Config	Text properties definitions.

Returns

RunProperties OpenXmlElement.

Definition at line 16 of file RunElement.cs.

```
00017         {
00018             if (textElementConfig == null)
00019                 textElementConfig = new TextElementConfig();
00020 
00021             return new RunProperties(new RunFonts() { Ascii = textElementConfig.FontName }, new FontSize()
      { Val = textElementConfig.FontSize.ToString() })
00022             {
00023                 Bold = textElementConfig.Bold ? new Bold() : null,
00024                 Italic = textElementConfig.Italic ? new Italic() : null,
00025                 Strike = textElementConfig.Strike ? new Strike() : null
00026             };
00027         }
```

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

- RunElement.cs

5.16 OpenXMLMailMerge.Core.StringConst Class Reference

String constant utils.

Public Attributes

- const string SPECIAL_STR_L = "«"

MSWord inputs this char in mergefield.

- const string SPECIAL_STR_R = "»"

  MSWord inputs this char in mergefield.
- const char ID_DELIMITER_CHAR = '@'

  Parameter delimiter.
- const char KEY_VALUE_DELIMITER = '='

  Parameter assignment delimiter.

5.16.1 Detailed Description

String constant utils.

Definition at line 6 of file StringConst.cs.

5.16.2 Member Data Documentation

5.16.2.1 const char OpenXMLMailMerge.Core.StringConst.ID_DELIMITER_CHAR = '@'

Parameter delimiter.

Definition at line 19 of file StringConst.cs.

5.16.2.2 const char OpenXMLMailMerge.Core.StringConst.KEY_VALUE_DELIMITER = '='

Parameter assignment delimiter.

Definition at line 23 of file StringConst.cs.

5.16.2.3 const string OpenXMLMailMerge.Core.StringConst.SPECIAL_STR_L = "«"

MSWord inputs this char in mergefield.

Definition at line 11 of file StringConst.cs.

5.16.2.4 const string OpenXMLMailMerge.Core.StringConst.SPECIAL_STR_R = "»"

MSWord inputs this char in mergefield.

Definition at line 15 of file StringConst.cs.

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

- StringConst.cs

5.17 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TableElement Class Reference

Table element class.

Static Package Functions

- static OpenXmlElement CreateTable (int cols=1, TableElementConfig tableConfig=null)

  Creates a Table OpenXmlElement

- static OpenXmlElement CreateRow ()

  Creates a row element.

- static OpenXmlElement CreateGrid (int cols=1)

  Creates a grid element.

- static OpenXmlElement CreateCell ()

  Creates a cell element.

5.17.1 Detailed Description

Table element class.

Definition at line 9 of file TableElement.cs.

5.17.2 Member Function Documentation

5.17.2.1 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TableElement.CreateCell ( ) [static], [package]

Creates a cell element.

Returns

TableCell OpenXmlElement.

Definition at line 89 of file TableElement.cs.

```
00090         {
00091             return new TableCell();
00092         }
```

5.17.2.2 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TableElement.CreateGrid (int *cols* = 1) [static], [package]

Creates a grid element.

Parameters

cols	Number of columns.

Returns

TableGrid OpenXmlElement.

Definition at line 75 of file TableElement.cs.

```
00076         {
00077             var result = new TableGrid();
00078             for (int i = 0; i < cols; i++)
00079             {
00080                 result.Append(new GridColumn());
00081             }
00082             return result;
00083         }
```

5.17.2.3 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TableElement.CreateRow ( ) [static],[package]

Creates a row element.

Returns

TableRow OpenXmlElement.

Definition at line 65 of file TableElement.cs.

```
00066         {
00067             return new TableRow();
00068         }
```

5.17.2.4 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TableElement.CreateTable (int *cols* = 1, TableElementConfig *tableConfig* = null) [static],[package]

Creates a Table OpenXmlElement

Parameters

cols	Number of columns.
tableConfig	Table properties definitions.

Returns

Table OpenXmlElement.

Definition at line 17 of file TableElement.cs.

```
00018         {
00019             var result = new Table();
00020             tableConfig = tableConfig ?? new TableElementConfig();
00021 
00022             var tableProperties = new TableProperties()
00023             {
00024                 TableWidth = new TableWidth()
00025                 {
00026                     Width = tableConfig.Width.ToString(),
00027                     Type = tableConfig.WidthUnitValues
00028                 },
00029                 TableLook = new TableLook()
00030                 {
00031                     Val = tableConfig.DrawLine ? "04A0" : null
00032                 },
00033                 TableBorders = tableConfig.DrawLine ? new TableBorders()
00034                 {
00035                     TopBorder = new TopBorder() { Val = BorderValues.Single, Color = "auto", Size = (
      UInt32Value)4U, Space = (UInt32Value)0U },
00036                     LeftBorder = new LeftBorder() { Val = BorderValues.Single, Color = "auto", Size = (
      UInt32Value)4U, Space = (UInt32Value)0U },
00037                     RightBorder = new RightBorder() { Val = BorderValues.Single, Color = "auto", Size = (
      UInt32Value)4U, Space = (UInt32Value)0U },
00038                     BottomBorder = new BottomBorder() { Val = BorderValues.Single, Color = "auto", Size = (
      UInt32Value)4U, Space = (UInt32Value)0U },
00039                     InsideHorizontalBorder = new InsideHorizontalBorder() { Val = BorderValues.Single,
      Color = "auto", Size = (UInt32Value)4U, Space = (UInt32Value)0U },
00040                     InsideVerticalBorder = new InsideVerticalBorder() { Val = BorderValues.Single, Color =
      "auto", Size = (UInt32Value)4U, Space = (UInt32Value)0U }
00041                 } : new TableBorders()
00042                 {
00043                     TopBorder = new TopBorder() { Val = BorderValues.None, Color = "auto", Size = (
      UInt32Value)4U, Space = (UInt32Value)0U },
00044                     LeftBorder = new LeftBorder() { Val = BorderValues.None, Color = "auto", Size = (
      UInt32Value)4U, Space = (UInt32Value)0U },
00045                     RightBorder = new RightBorder() { Val = BorderValues.None, Color = "auto", Size = (
      UInt32Value)4U, Space = (UInt32Value)0U },
00046                     BottomBorder = new BottomBorder() { Val = BorderValues.None, Color = "auto", Size = (
      UInt32Value)4U, Space = (UInt32Value)0U },
00047                     InsideHorizontalBorder = new InsideHorizontalBorder() { Val = BorderValues.None, Color
      = "auto", Size = (UInt32Value)4U, Space = (UInt32Value)0U },
```

```
00048                     InsideVerticalBorder = new InsideVerticalBorder() { Val = BorderValues.None, Color = "
      auto", Size = (UInt32Value)4U, Space = (UInt32Value)0U }
00049                 }
00050             };
00051
00052             result.Append(tableProperties);
00053
00054             var grid = CreateGrid(cols);
00055
00056             result.Append(grid);
00057
00058             return result;
00059         }
```

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

- TableElement.cs

5.18 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TableElement↩ Config Class Reference

Table element definitions class.

Properties

- bool DrawLine [get, set]

  Option to draw border line.
- int Width = true [get, set]

  Table width.
- TableWidthUnitValues WidthUnitValues = 5000 [get, set]

  Wordprocessing width value.

5.18.1 Detailed Description

Table element definitions class.

Definition at line 8 of file TableElementConfig.cs.

5.18.2 Property Documentation

5.18.2.1 bool OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TableElementConfig.DrawLine [get], [set], [package]

Option to draw border line.

Definition at line 13 of file TableElementConfig.cs.

5.18.2.2 int OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TableElementConfig.Width = true [get], [set], [package]

Table width.

Definition at line 17 of file TableElementConfig.cs.

5.18.2.3 TableWidthUnitValues OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TableElementConfig.WidthUnitValues = 5000 [get],[set],[package]

Wordprocessing width value.

Definition at line 21 of file TableElementConfig.cs.

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

- TableElementConfig.cs

5.19 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TextElement Class Reference

Text element class.

Static Package Functions

- static OpenXmlElement CreateText (string text)

  Creates a text element.

5.19.1 Detailed Description

Text element class.

Definition at line 10 of file TextElement.cs.

5.19.2 Member Function Documentation

5.19.2.1 static OpenXmlElement OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TextElement.CreateText (string *text*) [static],[package]

Creates a text element.

Parameters

text	Text value.

Returns

Text OpenXmlElement.

Definition at line 17 of file TextElement.cs.

```
00018         {
00019             if (text != null)
00020                 return new Text() { Text = text };
00021 
00022             throw new ArgumentNullException("Invalid argument");
00023         }
```

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

- TextElement.cs

5.20 OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TextElementConfig Class Reference

Text element definitions.

Properties

- string FontName [get, set]
  Font.
- int FontSize = "Calibri" [get, set]
  Font size.
- bool Bold = 22 [get, set]
  Bold option.
- bool Italic = false [get, set]
  Italic option.
- bool Strike = false [get, set]
  Strike option.

5.20.1 Detailed Description

Text element definitions.

Definition at line 7 of file TextElementConfig.cs.

5.20.2 Property Documentation

5.20.2.1 bool OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TextElementConfig.Bold = 22 [get], [set], [package]

Bold option.

Definition at line 20 of file TextElementConfig.cs.

5.20.2.2 string OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TextElementConfig.FontName [get], [set], [package]

Font.

Definition at line 12 of file TextElementConfig.cs.

5.20.2.3 int OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TextElementConfig.FontSize = "Calibri" [get], [set], [package]

Font size.

Definition at line 16 of file TextElementConfig.cs.

5.20.2.4 bool OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TextElementConfig.Italic = false [get], [set], [package]

Italic option.

Definition at line 24 of file TextElementConfig.cs.

5.20.2.5 bool OpenXMLMailMerge.Core.OpenXMLDocument.Document.Element.TextElementConfig.Strike = false [get], [set], [package]

Strike option.

Definition at line 28 of file TextElementConfig.cs.

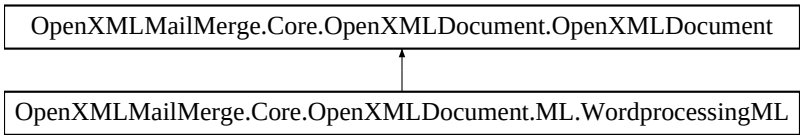
The documentation for this class was generated from the following file:

- TextElementConfig.cs

5.21 OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML Class Reference

A OpenXMLDocument as word processor.

Inheritance diagram for OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML:



Public Member Functions

- override OpenXMLDocument LoadFromFile (string path, bool isEditable=true, bool removeCopy=false, bool autoSave=false)

  Loads a document from file.
- virtual byte[ ] TryReplaceImage (string arg)

  Gets the value from the data dictionary entry.
- virtual DataTable TryReplaceTable (string arg)

  Gets the value from the data dictionary entry.
- override void Process ()

  Process the document applying the mail merge.
- override void SaveToFile ()

  Saves the temporary file.
- override OpenXMLDocument LoadFromBytes (byte[ ] bytes, string tempPath, bool removeCopy=false, bool autoSave=false)

  Loads a document from byte array.
- override void SaveToFile (string path)

  Saves the temporary file.
- override byte[ ] GetBytes ()

  Gets the document byte array.

Protected Member Functions

- virtual string TryReplaceString (string arg)

  Gets the value from the data dictionary entry.
- virtual void ProcessRegex ()

  Executes string regex replacement.
- virtual void ProcessImage ()

Executes image replacement.

- virtual void ProcessTable ()

  Executes table replacement.

Private Member Functions

- void Save ()

  Saves the temporary file.

Additional Inherited Members

5.21.1 Detailed Description

A OpenXMLDocument as word processor.

Definition at line 16 of file WordprocessingML.cs.

5.21.2 Member Function Documentation

5.21.2.1 override byte [ ] OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.GetBytes ( ) [virtual]

Gets the document byte array.

Returns

Array of byte with document's content.

Reimplemented from OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.

Definition at line 442 of file WordprocessingML.cs.

```
00443         {
00444             var bytes = base.GetBytes();
00445 
00446             //This override was made because it was easier to copy the closed actual saved file rather than
       gets its memory copy
00447 
00448             ContentManager = new DocumentHandler()
00449             {
00450                 Document = WordprocessingDocument.Open(DocumentSettings.
      TempPath, true, new OpenSettings() { AutoSave = DocumentSettings.
      AutoSave })
00451             };
00452 
00453             ContentManager.Content = (ContentManager.
      Document as WordprocessingDocument).MainDocumentPart;
00454 
00455             return bytes;
00456         }
```

5.21.2.2 override OpenXMLDocument OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.↩ LoadFromBytes (byte[ ] *bytes*, string *tempPath*, bool *removeCopy* = false, bool *autoSave* = false) [virtual]

Loads a document from byte array.

Parameters

bytes	Array of bytes with file content.
tempPath	Temporary file path.
removeCopy	Whether should remove a copy or not.
autoSave	Whether it should auto save the document.

Returns

OpenXMLDocument processor.

Reimplemented from OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.

Definition at line 401 of file WordprocessingML.cs.

```
00402         {
00403             base.LoadFromBytes(bytes, tempPath, removeCopy, autoSave);
00404 
00405             DocumentSettings.AutoSave = autoSave;
00406 
00407             ContentManager = new DocumentHandler()
00408             {
00409                 Document = WordprocessingDocument.Open(DocumentSettings.
      TempPath, true, new OpenSettings() { AutoSave = DocumentSettings.
      AutoSave })
00410             };
00411 
00412             ContentManager.Content = (ContentManager.
      Document as WordprocessingDocument).MainDocumentPart;
00413 
00414             return this;
00415         }
```

5.21.2.3 override OpenXMLDocument OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.LoadFromFile (string *path*, bool *isEditable* = `true`, bool *removeCopy* = `false`, bool *autoSave* = `false`) [virtual]

Loads a document from file.

Parameters

path	Path of the document.
isEditable	Whether is a editable copy.
removeCopy	Whether should remove a copy or not.
autoSave	Whether it should auto save the document.

Returns

OpenXMLDocument processor.

Reimplemented from OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.

Definition at line 26 of file WordprocessingML.cs.

```
00027         {
00028             base.LoadFromFile(path, isEditable, removeCopy);
00029 
00030             DocumentSettings.AutoSave = autoSave;
00031 
00032             ContentManager = new DocumentHandler()
00033             {
00034                 Document = WordprocessingDocument.Open(DocumentSettings.
      TempPath, isEditable, new OpenSettings() { AutoSave = DocumentSettings.
      AutoSave })
00035             };
00036 
00037             ContentManager.Content = (ContentManager.
      Document as WordprocessingDocument).MainDocumentPart;
00038 
00039             return this;
00040         }
```

5.21.2.4 override void OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.Process ( ) [virtual]

Process the document applying the mail merge.

Reimplemented from OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.

Definition at line 348 of file WordprocessingML.cs.

```
00349         {
00350             base.Process();
00351 
00352             //Processing types
00353 
00354             ProcessRegex();
00355 
00356             ProcessImage();
00357 
00358             ProcessTable();
00359 
00360             //OpenXmlValidator validator = new OpenXmlValidator();
00361             //var errors = validator.Validate(ContentManager.Content);
00362             //Debug.Write(Environment.NewLine);
00363             //foreach (ValidationErrorInfo error in errors)
00364             //    Debug.Write(error.Description + Environment.NewLine);
00365         }
```

5.21.2.5 virtual void OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.ProcessImage ( ) [protected], [virtual]

Executes image replacement.

Definition at line 154 of file WordprocessingML.cs.

```
00155         {
00156             ContentManager.Content.HeaderParts.Where(w => w.Header.Descendants<
      SimpleField>().Count() > 0).ToList().ForEach(w =>
00157             {
00158                 w.Header.Descendants<SimpleField>().ToList().ForEach(s =>
00159                 {
00160                     s.Descendants<Text>().ToList().ForEach(t =>
00161                     {
00162                         var data = TryReplaceImage(t.Text);
00163                         if (data != null)
00164                         {
00165                             var image = ContentManager.
      ElementBuilder.CreateImage(data, w);
00166                             t.Parent.Parent.Parent.Append(new Run(image));
00167                             t.Text = string.Empty;
00168                         }
00169                     });
00170                 });
00171             });
00172 
00173             ContentManager.Content.FooterParts.Where(w => w.Footer.Descendants<
      SimpleField>().Count() > 0).ToList().ForEach(w =>
00174             {
00175                 w.Footer.Descendants<SimpleField>().ToList().ForEach(s =>
00176                 {
00177                     s.Descendants<Text>().ToList().ForEach(t =>
00178                     {
00179                         var data = TryReplaceImage(t.Text);
00180                         if (data != null)
00181                         {
00182                             var image = ContentManager.
      ElementBuilder.CreateImage(data, w);
00183                             t.Parent.Parent.Parent.Append(new Run(image));
00184                             t.Remove();
00185                         }
00186                     });
00187                 });
00188             });
00189 
00190             ContentManager.Content.Document.MainDocumentPart.Document.Descendants<
      SimpleField>().ToList().ForEach(w =>
00191             {
00192                 w.Descendants<Text>().ToList().ForEach(t =>
00193                 {
00194                     var data = TryReplaceImage(t.Text);
00195                     if (data != null)
```

```
00196                     {
00197                         var image = ContentManager.ElementBuilder.CreateImage(
      data, ContentManager.Content);
00198                         w.Parent.Append(new Run(image));
00199                         t.Remove();
00200                     }
00201                 });
00202 
00203             });
00204 
00205             //ContentManager.Content.Document.Save();
00206         }
```

5.21.2.6 virtual void OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.ProcessRegex ( ) [protected], [virtual]

Executes string regex replacement.

Definition at line 122 of file WordprocessingML.cs.

```
00123         {
00124             ContentManager.Content.HeaderParts.Where(w => w.Header.Descendants<
      SimpleField>().Count() > 0).ToList().ForEach(w =>
00125             {
00126                 w.Header.Descendants<Text>().ToList().ForEach(t =>
00127                 {
00128                     t.Text = TryReplaceString(t.Text).ToString();
00129                 });
00130             });
00131 
00132             ContentManager.Content.FooterParts.Where(w => w.Footer.Descendants<
      SimpleField>().Count() > 0).ToList().ForEach(w =>
00133             {
00134                 w.Footer.Descendants<Text>().ToList().ForEach(t =>
00135                 {
00136                     t.Text = TryReplaceString(t.Text).ToString();
00137                 });
00138             });
00139 
00140             ContentManager.Content.Document.MainDocumentPart.Document.Descendants<
      SimpleField>().ToList().ForEach(w =>
00141             {
00142                 w.Descendants<Text>().ToList().ForEach(t =>
00143                 {
00144                     t.Text = TryReplaceString(t.Text).ToString();
00145                 });
00146             });
00147 
00148             //ContentManager.Content.Document.Save();
00149         }
```

5.21.2.7 virtual void OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.ProcessTable ( ) [protected], [virtual]

Executes table replacement.

Definition at line 211 of file WordprocessingML.cs.

```
00212         {
00213             ContentManager.Content.HeaderParts.Where(w => w.Header.Descendants<
      SimpleField>().Count() > 0).ToList().ForEach(w =>
00214             {
00215                 w.Header.Descendants<SimpleField>().ToList().ForEach(s =>
00216                 {
00217                     s.Descendants<Text>().ToList().ForEach(t =>
00218                     {
00219                         var data = TryReplaceTable(t.Text);
00220                         if (data != null)
00221                         {
00222                             var elementBuilder = ContentManager.
      ElementBuilder;
00223                             var table = elementBuilder.CreateTable(data.Columns.Count);
00224                             var captionTableRow = elementBuilder.CreateRow();
00225 
00226                             foreach (DataColumn item in data.Columns)
```

```
00227                           {
00228                               var colCaption = elementBuilder.CreateParagraph(item.Caption,
    JustificationValues.Left, null);
00229                               var cell = elementBuilder.CreateCell();
00230                               cell.Append(colCaption);
00231                               captionTableRow.Append(cell);
00232                           }
00233                           table.Append(captionTableRow);
00234 
00235                           foreach (DataRow item in data.Rows)
00236                           {
00237                               var tableRow = elementBuilder.CreateRow();
00238                               foreach (var i in item.ItemArray)
00239                               {
00240                                   var cell = elementBuilder.CreateCell();
00241                                   var cellValue = elementBuilder.CreateParagraph(i.ToString(),
    JustificationValues.Left, null);
00242                                   cell.Append(cellValue);
00243                                   tableRow.Append(cell);
00244                               }
00245 
00246                               table.Append(tableRow);
00247                           }
00248 
00249                           ContentManager.Content.HeaderParts.FirstOrDefault().Header
    .AppendChild(table);
00250                           t.Remove();
00251                       }
00252                   });
00253               });
00254           });
00255 
00256           ContentManager.Content.FooterParts.Where(w => w.Footer.Descendants<
    SimpleField>().Count() > 0).ToList().ForEach(w =>
00257           {
00258               w.Footer.Descendants<SimpleField>().ToList().ForEach(s =>
00259               {
00260                   s.Descendants<Text>().ToList().ForEach(t =>
00261                   {
00262                       var data = TryReplaceTable(t.Text);
00263                       if (data != null)
00264                       {
00265                           var elementBuilder = ContentManager.
    ElementBuilder;
00266                           var table = elementBuilder.CreateTable(data.Columns.Count);
00267                           var captionTableRow = elementBuilder.CreateRow();
00268 
00269                           foreach (DataColumn item in data.Columns)
00270                           {
00271                               var colCaption = elementBuilder.CreateParagraph(item.Caption,
    JustificationValues.Left, null);
00272                               var cell = elementBuilder.CreateCell();
00273                               cell.Append(colCaption);
00274                               captionTableRow.Append(cell);
00275                           }
00276                           table.Append(captionTableRow);
00277 
00278                           foreach (DataRow item in data.Rows)
00279                           {
00280                               var tableRow = elementBuilder.CreateRow();
00281                               foreach (var i in item.ItemArray)
00282                               {
00283                                   var cell = elementBuilder.CreateCell();
00284                                   var cellValue = elementBuilder.CreateParagraph(i.ToString(),
    JustificationValues.Left, null);
00285                                   cell.Append(cellValue);
00286                                   tableRow.Append(cell);
00287                               }
00288 
00289                               table.Append(tableRow);
00290                           }
00291 
00292                           ContentManager.Content.FooterParts.FirstOrDefault().Footer
    .Append(table);
00293                           t.Remove();
00294                       }
00295                   });
00296               });
00297           });
00298 
00299           ContentManager.Content.Document.MainDocumentPart.Document.Descendants<
    SimpleField>().ToList().ForEach(w =>
00300           {
00301               w.Descendants<Text>().ToList().ForEach(t =>
00302               {
00303                   var data = TryReplaceTable(t.Text);
00304                   if (data != null)
```

```
00305                     {
00306                         var elementBuilder = ContentManager.
    ElementBuilder;
00307                         var table = elementBuilder.CreateTable(data.Columns.Count);
00308                         var captionTableRow = elementBuilder.CreateRow();
00309 
00310                         foreach (DataColumn item in data.Columns)
00311                         {
00312                             var colCaption = elementBuilder.CreateParagraph(item.Caption,
    JustificationValues.Left, null);
00313                             var cell = elementBuilder.CreateCell();
00314                             cell.Append(colCaption);
00315                             captionTableRow.Append(cell);
00316                         }
00317                         table.Append(captionTableRow);
00318 
00319                         foreach (DataRow item in data.Rows)
00320                         {
00321                             var tableRow = elementBuilder.CreateRow();
00322                             foreach (var i in item.ItemArray)
00323                             {
00324                                 var cell = elementBuilder.CreateCell();
00325                                 var cellValue = elementBuilder.CreateParagraph(i.ToString(),
    JustificationValues.Left, null);
00326                                 cell.Append(cellValue);
00327                                 tableRow.Append(cell);
00328                             }
00329 
00330                             table.Append(tableRow);
00331                         }
00332 
00333                         w.RemoveAllChildren();
00334 
00335                         //BUG: Try to solve the validation error: Description="The element has unexpected
     child element 'http://schemas.openxmlformats.org/wordprocessingml/2006/main:tbl'."
00336                         ContentManager.Content.Document.Body.Append(table);
00337                     }
00338                 });
00339             });
00340 
00341 
00342             //ContentManager.Content.Document.Save();
00343         }
```

5.21.2.8 void OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.Save ( ) [private]

Saves the temporary file.

Definition at line 370 of file WordprocessingML.cs.

```
00371         {
00372             var header = ContentManager.Content.Document.MainDocumentPart.HeaderParts.
    FirstOrDefault();
00373             if (header != null)
00374                 if (header.Header != null)
00375                     header.Header.Save();
00376 
00377             var footer = ContentManager.Content.Document.MainDocumentPart.FooterParts.
    FirstOrDefault();
00378             if (footer != null)
00379                 if (footer.Footer != null)
00380                     footer.Footer.Save();
00381 
00382             ContentManager.Content.Document.Save();
00383         }
```

5.21.2.9 override void OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.SaveToFile ( ) [virtual]

Saves the temporary file.

Reimplemented from OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.

Definition at line 388 of file WordprocessingML.cs.

```
00389         {
00390             Save();
00391         }
```

5.21.2.10 override void OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.SaveToFile (string *path*) [virtual]

Saves the temporary file.

Parameters

path	Path to save.

Reimplemented from OpenXMLMailMerge.Core.OpenXMLDocument.OpenXMLDocument.

Definition at line 421 of file WordprocessingML.cs.

```
00422         {
00423             Save();
00424 
00425             var bytes = GetBytes();
00426 
00427             try
00428             {
00429                 File.WriteAllBytes(path, bytes);
00430             }
00431             catch (Exception)
00432             {
00433 
00434                 throw;
00435             }
00436         }
```

5.21.2.11 virtual byte [ ] OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.TryReplaceImage (string *arg*) [virtual]

Gets the value from the data dictionary entry.

Parameters

arg	Text of the field.

Returns

Array of byte with the value from data dictionary.

Definition at line 47 of file WordprocessingML.cs.

```
00048         {
00049             foreach (var item in Dictionary)
00050             {
00051                 if (item.Key == MailMergeDataTypeEnum.Image)
00052                 {
00053                     foreach (var value in item.Value)
00054                     {
00055                         if (arg.ToUpper().Contains(value.Key.ToString().ToUpper()))
00056                         {
00057                             return value.Value as byte[];
00058                         }
00059                     }
00060                 }
00061             }
00062 
00063             return null;
00064         }
```

5.21.2.12 virtual string OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.TryReplaceString (string *arg*) [protected], [virtual]

Gets the value from the data dictionary entry.

Parameters

arg	Text of the field.

Returns

String with the value from data dictionary.

Definition at line 71 of file WordprocessingML.cs.

```
00072         {
00073             foreach (var item in Dictionary)
00074             {
00075                 if (item.Key == MailMergeDataTypeEnum.Regex)
00076                 {
00077                     foreach (var value in item.Value)
00078                     {
00079                         if (arg.ToUpper().Contains(value.Key.ToString().ToUpper()))
00080                         {
00081                             var regexText = new Regex(value.Key);
00082                             string toReplace = Convert.ToString(value.Value);
00083                             var result = regexText.Replace(arg, toReplace);
00084                             result = result
00085                                     .Replace(StringConst.SPECIAL_STR_L, string.Empty)
00086                                     .Replace(StringConst.SPECIAL_STR_R, string.Empty);
00087                             return result;
00088                         }
00089                     }
00090                 }
00091             }
00092             return arg;
00093         }
```

5.21.2.13 virtual DataTable OpenXMLMailMerge.Core.OpenXMLDocument.ML.WordprocessingML.TryReplaceTable (string *arg*) [virtual]

Gets the value from the data dictionary entry.

Parameters

arg	Text of the field.

Returns

DataTable with the value from data dictionary.

Definition at line 100 of file WordprocessingML.cs.

```
00101         {
00102             foreach (var item in Dictionary)
00103             {
00104                 if (item.Key == MailMergeDataTypeEnum.Table)
00105                 {
00106                     foreach (var value in item.Value)
00107                     {
00108                         if (arg.ToUpper().Contains(value.Key.ToString().ToUpper()))
00109                         {
00110                             return value.Value as DataTable;
00111                         }
00112                     }
00113                 }
00114             }
00115
00116             return null;
00117         }
```

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