How to convert xls to xml and xml to xls with spreadsheet sdk in VB.NET with ByteScout Data Extraction Suite

Continuous learning is a crucial part of computer science and this tutorial shows how to convert xls to xml and xml to xls with spreadsheet sdk in VB.NET

The code displayed below will guide you to install an VB.NET app to convert xls to xml and xml to xls with spreadsheet sdk. ByteScout Data Extraction Suite is the set that includes 3 SDK products for data extraction from PDF, scans, images and from spreadsheets: PDF Extractor SDK, Data Extraction SDK, Barcode Reader SDK and you can use it to convert xls to xml and xml to xls with spreadsheet sdk with VB.NET.

The SDK samples given below describe how to quickly make your application do convert xls to xml and xml to xls with spreadsheet sdk in VB.NET with the help of ByteScout Data Extraction Suite. IF you want to implement the functionality, just copy and paste this code for VB.NET below into your code editor with your app, compile and run your application. Applying VB.NET application mostly includes various stages of the software development so even if the functionality works please test it with your data and the production environment.

You can download free trial version of ByteScout Data Extraction Suite from our website to see and try many others source code samples for VB.NET.

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Source Code Files:

Module1.vb

```vbnet
Imports Bytescout.Spreadsheet
Imports System.IO

Module Module1
    Sub Main()
        ' sample XLS to XML conversion
        SampleXLStoXMLConversion()
        ' sample XML to XLS conversion
        SampleXMLtoXLSConversion()
    End Sub

    ''' <summary>
    ''' shows how to convert existing XLS (Excel) _document into XML using Bytescout.Sp
    ''' </summary>
    Sub SampleXLStoXMLConversion()
        Dim document As New Spreadsheet()
document.LoadFromFile("AdvancedReport.xls")

        ' read XLS and save as XML
        Dim tools As New SimpleXMLConverter(document)
        tools.SaveXML("AdvancedReport.xml")

        document.Close()
    End Sub

    ''' <summary>
    ''' shows how to convert XML data into XLS excel using Bytescout.Spreadsheet and By
    ''' </summary>
    Sub SampleXMLtoXLSConversion()
        ' read XML and convert into XLS (Excel) and save

        Dim document As New Spreadsheet()

        Dim tools As New SimpleXMLConverter(document)

        tools.LoadXML("AdvancedReport.xml")

        ' remove output file if already exists
        If File.Exists("AdvancedReportFromXML.xls") Then
            File.Delete("AdvancedReportFromXML.xls")
        End If

        document.SaveAs("AdvancedReportFromXML.xls")

        document.Close()

        ' open in default spreadsheets viewer/editor
        Process.Start("AdvancedReportFromXML.xls")
    End Sub

End Module
```

SimpleXMLConverter.vb

```vb
Imports Bytescout.Spreadsheet

Public Class SimpleXMLConverter

    Dim _document As Spreadsheet

    Sub New(ByRef document As Spreadsheet)
        _document = document
    End Sub

    Sub LoadXML(ByVal path As String)
        Dim dataSet As New DataSet()
        dataSet.ReadXml(path)

        For Each table As DataTable In dataSet.Tables

            Dim worksheet As Worksheet = _document.Workbook.Worksheets.Add(table.TableN

            ' Add columns
            worksheet.Columns.Insert(0, table.Columns.Count)

            ' Add rows for data
            worksheet.Rows.Insert(0, table.Rows.Count)

            ' Fill data
            For i As Integer = 0 To table.Rows.Count - 1
                For j As Integer = 0 To table.Columns.Count - 1
                    worksheet.Cell(i + 1, j).Value = table.Rows(i)(j).ToString()
                Next
            Next
        Next
    End Sub

    Sub SaveXML(ByVal path As String)

        Dim dataSet As New DataSet()

        For i As Integer = 0 To _document.Workbook.Worksheets.Count - 1

            Dim worksheet As Worksheet = _document.Workbook.Worksheets(i)

            Dim table As DataTable = dataSet.Tables.Add(worksheet.Name)

            For column As Integer = 0 To worksheet.UsedRangeColumnMax
                table.Columns.Add(String.Format("Column_{0}", column))
            Next


            For row As Integer = 0 To worksheet.UsedRangeRowMax
                Dim data() As Object
```

```vbnet
                Array.Resize(data, worksheet.UsedRangeColumnMax + 1)

                For column As Integer = 0 To worksheet.UsedRangeColumnMax
                    data(column) = worksheet.Cell(row, column).Value
                Next

                table.Rows.Add(data)
            Next
        Next

        dataSet.WriteXml(path)
    End Sub

    Sub PrintDataSet(ByRef ds As DataSet)

        Console.WriteLine("DataSet name: {0}", ds.DataSetName)
        For Each table As DataTable In ds.Tables

            Dim rowCount As Integer = table.Rows.Count
            Dim columnCount As Integer = table.Columns.Count

            Console.WriteLine("\nTable: {0} ({1} rows)", table.TableName, rowCount)

            For Each column As DataColumn In table.Columns
                Console.Write("{0}\t", column.ColumnName)
            Next

            Console.WriteLine()

            For i As Integer = 0 To rowCount - 1
                For column As Integer = 0 To columnCount - 1
                    Console.Write("{0}\t", table.Rows(i)(column))
                Next

                Console.WriteLine()
            Next
        Next
    End Sub

End Class
```

VIDEO

https://www.youtube.com/watch?v=NEwNs2b9YN8

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