

```
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<process name="Utility - Image Manipulation" version="6.7.0.0" narrative="Utility methods for analysing an

<appdef>

<element name="Application Root">

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<type>Application</type>

<basetype>Application</basetype>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

</appdef>

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</view>

<preconditions/>

<endpoint narrative=""/>

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<name>Clean Up</name>

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<subsheet subsheetid="770f130d-2233-4b18-b427-a6b2068004c9" type="Normal" published="True">

<name>Image is White</name>

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</view>

</subsheet>

<subsheet subsheetid="58ce2146-7428-4658-8368-0a657b4650b8" type="Normal" published="True">

<name>Image Contains Colour</name>

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</subsheet>

<subsheet subsheetid="51f754b0-95a4-49ae-8911-4df231659481" type="Normal" published="True">

<name>Image Is Uniform Colour</name>

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</view>

</subsheet>

<subsheet subsheetid="52a8e75a-abe2-40d1-9aaf-8c4df1ed37d6" type="Normal" published="True">

<name>Get Sub Image Position</name>

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</view>

</subsheet>

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<name>Find First Pixel From Left</name>

<view>

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<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="86993a9b-04d3-4088-97b9-173ee7ae96e5" type="Normal" published="True">

<name>Find First Pixel From Bottom</name>

<view>

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<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="260695ce-598a-45da-857b-faaf399998a1" type="Normal" published="False">

<name>Find First Pixel From Direction</name>

<view>

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</view>

</subsheet>

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<loginhibit/>

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</narrative>

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<onsuccess>c42f55e8-f668-45da-b9d4-c31d1674ded1</onsuccess>

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<stage stageid="c42f55e8-f668-45da-b9d4-c31d1674ded1" name="End" type="End">

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<narrative>

</narrative>

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<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

<import>System.IO</import>

<import>System.XML</import>

<import>Microsoft.VisualBasic</import>

</imports>

<language>visualbasic</language>

<globalcode>

</globalcode>

<code>

Public Function GetDataTable(ByVal ColumnNamesCSV As String, ByVal ColumnTypesCSV As String) As

Dim objTable As DataTable

Dim objColumn As DataColumn

Dim aColumnNames As String() = ColumnNamesCSV.Split(",")

```
Dim aColumnTypes As String() = ColumnTypesCSV.Split(",")
```

```
Try
```

```
objTable = New DataTable
```

```
For i As Integer = 0 To aColumnNames.Length - 1
```

```
objColumn = New DataColumn
```

```
objColumn.DataType = System.Type.GetType(aColumnTypes(i).Trim)
```

```
objColumn.ColumnName = aColumnNames(i).Trim
```

```
objTable.Columns.Add(objColumn)
```

```
Next
```

```
Catch e As Exception
```

```
objTable = nothing
```

```
End Try
```

```
Return objTable
```

```
End Function
```

```
</code>
```

```
</stage>
```

```
<stage stageid="ac71c3ed-405e-43d0-90d0-40a5cbc70038" name="Clean Up" type="SubSheetInfo">
```

```
<subsheetsid>5afcdaf5-28c3-4fa9-9c82-296be88ed2bf</subsheetsid>
```

```
<narrative>
```

```
</narrative>
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<onsuccess>e18f9486-056a-4f45-af10-ebf4fe0dfaa8</onsuccess>

</stage>

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</narrative>

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<stage stageid="7edd516c-669b-4090-8945-e74489e05155" name="new" type="Note">
```

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<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

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<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="55619304-07ca-4697-a7ec-4ab708a96063" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business of

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

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<displayheight>230</displayheight>


```
</stage>

<stage stageid="989c9452-a94a-4dd7-bd86-c6108901a496" name="Image is White" type="SubSheetInfo"

<subsheetsid>770f130d-2233-4b18-b427-a6b2068004c9</subsheetsid>

<narrative>Determines whether the supplied image is all white</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

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</stage>

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<subsheetsid>770f130d-2233-4b18-b427-a6b2068004c9</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None"/>

</preconditions>

<narrative>

</narrative>

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<inputs>

<input type="image" name="Image" narrative="The image to check" stage="Image"/>

</inputs>

<onsuccess>e3a5956c-32d6-4363-8c93-10a8d6654be2</onsuccess>
```

```
</stage>

<stage stageid="055b2548-e116-4bfa-9d08-e32e53324111" name="End" type="End">

<subsheetid>770f130d-2233-4b18-b427-a6b2068004c9</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

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<outputs>

<output type="flag" name="White" narrative="True if the image is white" stage="White"/>

</outputs>

</stage>

<stage stageid="e3a5956c-32d6-4363-8c93-10a8d6654be2" name="Image Is White" type="Code">

<subsheetid>770f130d-2233-4b18-b427-a6b2068004c9</subsheetid>

<narrative>

</narrative>

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<inputs>

<input type="image" name="Image" expr="[Image]"/>

</inputs>
```

<outputs>

<output type="flag" name="White" stage="White"/>

</outputs>

<onsuccess>055b2548-e116-4bfa-9d08-e32e53324111</onsuccess>

<code>

Dim c as System.Drawing.Color

White = False

For y As Integer = 0 To Image.Height - 1

For x As Integer = 0 To Image.Width - 1

c = Image.GetPixel(x, y)

If c.Name <> "ffffff" Then

White = False

Exit Sub

End If

Next

Next

White = True</code>

</stage>

<stage stageid="d5332b0b-0700-4136-a598-1e2d5679bcd1" name="Image" type="Data">

<subsheetid>770f130d-2233-4b18-b427-a6b2068004c9</subsheetid>

<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

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<subsheetid>770f130d-2233-4b18-b427-a6b2068004c9</subsheetid>

<narrative>

</narrative>

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<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="806e2448-b127-47af-82cf-20a97d90299e" name="Image Contains Colour" type="SubShe

<subsheetid>58ce2146-7428-4658-8368-0a657b4650b8</subsheetid>

<narrative>Determines whether the specified colour is contained in the image.</narrative>

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<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

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</stage>

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<subsheetid>58ce2146-7428-4658-8368-0a657b4650b8</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="image" name="Image" narrative="The image to check" stage="Image"/>

<input type="text" name="Test Colour" narrative="The colour to check for in the hexadecimal format AARRRR">

</inputs>

<onsuccess>d485eeca-314d-47ab-88d7-da0d7a86bfc1</onsuccess>

</stage>

<stage stageid="8ee84eda-d89e-44be-9a93-9d421c786b4a" name="End" type="End">

<subsheetid>58ce2146-7428-4658-8368-0a657b4650b8</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>
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<display>75</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Contains Colour" stage="Contains Colour"/>

</outputs>

</stage>

<stage stageid="d485eeca-314d-47ab-88d7-da0d7a86bfc1" name="Image Contains Colour" type="Code">

<subsheetid>58ce2146-7428-4658-8368-0a657b4650b8</subsheetid>

<narrative>

</narrative>

<displayx>15</displayx>

<display>-15</display>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="image" name="Image" expr="[Image]"/>

<input type="text" name="Test Colour" expr="[Test Colour]"/>

</inputs>

<outputs>

<output type="flag" name="Contains Colour" stage="Contains Colour"/>

</outputs>

<onsuccess>8ee84eda-d89e-44be-9a93-9d421c786b4a</onsuccess>

<code>'First Validate the input colour

If Test_Colour.Length = 8

```
For Each ch as Char In Test_Colour.ToCharArray()
```

```
If Not char.IsNumber(ch) Then
```

```
Dim IsValidChar As Boolean = False
```

```
For Each ValidChar As Char In New Char() {"A", "B", "C", "D", "E", "F"}
```

```
If char.ToUpper(ch).Equals(ValidChar) Then
```

```
IsValidChar = True
```

```
Exit For
```

```
End If
```

```
Next
```

```
If Not IsValidChar Then
```

```
Throw New ArgumentException("The supplied test colour '" & Test_Colour & "' is not v
```

```
End If
```

```
End If
```

```
Next
```

```
End If
```

```
Dim c as System.Drawing.Color
```

```
Contains_Colour = False
```

```
For y As Integer = 0 To Image.Height - 1
```

```
For x As Integer = 0 To Image.Width - 1
```

```
c = Image.GetPixel(x, y)
```

```
If c.Name.ToUpper() = Test_Colour.ToUpper() Then
```

```
Contains_Colour = True
```

```
Exit Sub
```

```
End If
```

Next

Next

</code>

</stage>

<stage stageid="3ff3d56c-4233-4e9b-9707-f9c463efcc9e" name="Image" type="Data">

<subsheetid>58ce2146-7428-4658-8368-0a657b4650b8</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

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<datatype>image</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="1b1064cd-42e6-4418-b77c-ed32265cec51" name="Black" type="Data">

<subsheetid>58ce2146-7428-4658-8368-0a657b4650b8</subsheetid>

<narrative>

</narrative>

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```
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<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="44c80ec6-4258-4d28-b48b-6d5b5793b82f" name="Test Colour" type="Data">

<subsheetid>58ce2146-7428-4658-8368-0a657b4650b8</subsheetid>

<narrative>

</narrative>

<displayx>90</displayx>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e65c1106-cd95-4665-b535-7c767f58f68a" name="Get Sub Image Position" type="SubSh

<subsheetid>52a8e75a-abe2-40d1-9aaf-8c4df1ed37d6</subsheetid>

<narrative>Finds whether the main image contains a sub image, and if found gives the X,Y coordinates of

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>
```

```
</stage>

<stage stageid="a7e30009-84a0-48b0-b4ee-8ac3f7e18719" name="Start" type="Start">

<subsheetid>52a8e75a-abe2-40d1-9aaf-8c4df1ed37d6</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>-105</displayy>

<displaywidth>60</displaywidth>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="image" name="Main Image" narrative="The image to check" stage="Main Image"/>

<input type="image" name="Potential SubImage" narrative="The image to check for" stage="Potential Sub

</inputs>

<onsuccess>9581a702-c064-4ee6-a892-a8f051d39872</onsuccess>

</stage>

<stage stageid="1d937619-473b-4d9b-b9bc-03d10e8e426a" name="End" type="End">

<subsheetid>52a8e75a-abe2-40d1-9aaf-8c4df1ed37d6</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>90</displayy>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>
```

```
<outputs>

<output type="number" name="X Index" narrative="The X location of the sub image" stage="X Index"/>
<output type="number" name="Y Index" narrative="The Y location of the sub image" stage="Y Index"/>
<output type="flag" name="Contained" narrative="True if the main image contains the sub image" stage="C

</outputs>

</stage>

<stage stageid="9581a702-c064-4ee6-a892-a8f051d39872" name="Detect Partial Image" type="Code">
<subsheetid>52a8e75a-abe2-40d1-9aaf-8c4df1ed37d6</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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<displaywidth>90</displaywidth>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="image" name="Potential SubImage" expr="[Potential SubImage]"/>
<input type="image" name="Main Image" expr="[Main Image]"/>

</inputs>

<outputs>

<output type="number" name="X Index" stage="X Index"/>
<output type="number" name="Y Index" stage="Y Index"/>
<output type="flag" name="Contained" stage="Contained"/>

</outputs>

<onsuccess>1d937619-473b-4d9b-b9bc-03d10e8e426a</onsuccess>

<code>Contained = False
```

```
Dim bmPartial as Bitmap = ctype(Potential_SubImage, bitmap)
```

```
Dim bmCaptured as bitmap = ctype(Main_Image, bitmap)
```

```
Dim i As Integer = 0
```

```
Dim j As Integer = 0
```

```
For i = 0 to bmCaptured.Width - bmPartial.Width
```

```
For j = 0 to bmCaptured.Height - bmPartial.Height
```

```
Dim IsSubImage as Boolean = True
```

```
For x as integer = 0 to bmpartial.width -1
```

```
For y as integer = 0 to bmpartial.height -1
```

```
If bmCaptured.GetPixel(i+x,j+y).ToArgb() <> bmPartial.GetPixel(x,y).ToArgb()
```

```
IsSubImage = False
```

```
Goto NextAnchor
```

```
End If
```

```
Next
```

```
Next
```

```
NextAnchor:
```

```
If IsSubImage Then
```

```
X_Index = i
```

```
Y_Index = j
```

```
Contained = True
```

```
Exit Sub
```

```
End If
```

```
Next
```

Next

X_Index = -1

Y_Index = -1

Contained = False</code>

</stage>

<stage stageid="d6454be3-1f6d-4dd6-94f7-383bb306ffad" name="Contained" type="Data">

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<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="514ea927-ab73-447d-87c7-f7647125551e" name="Y Index" type="Data">

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<narrative>

</narrative>

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</stage>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="52799220-2f09-48da-9a90-bec11811733e" name="Potential SubImage" type="Data">

<subsheetid>52a8e75a-abe2-40d1-9aaf-8c4df1ed37d6</subsheetid>

<narrative>

</narrative>

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<displayy>-105</displayy>
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<stage stageid="dfbd8a53-c386-4e12-b484-0f3052db4f61" name="Contains Colour" type="Data">

<subsheetsid>58ce2146-7428-4658-8368-0a657b4650b8</subsheetsid>

<narrative>

</narrative>

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<stage stageid="fff62d3f-8e87-40c1-92ef-39744dd31d71" name="Find First Pixel From Left" type="SubSheet">

<subsheetid>1415e255-6251-4f44-84a2-9def682b5033</subsheetid>

<narrative>Finds the index of the first column of pixels from the left, containing a pixel of the specified color</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

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<displayheight>90</displayheight>

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</stage>

<stage stageid="0aa9c991-2445-4945-8be2-1dad98e7048d" name="Start" type="Start">

<subsheetid>1415e255-6251-4f44-84a2-9def682b5033</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>
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<inputs>

<input type="text" name="Colour" narrative="The colour of interest, expressed as AARRGGBB in hex form" />

<input type="image" name="Image" narrative="The image to be examined." stage="Image"/>

<input type="flag" name="Invert Logic" narrative="When true, the first pixel NOT equal to the specified colour" />

</inputs>

<onsuccess>095a4aaf-717c-4e5b-8fd7-6dbd5dc391b4</onsuccess>

</stage>

<stage stageid="f4be1535-44d7-41de-b71c-e998382198ac" name="End" type="End">

<subsheetid>1415e255-6251-4f44-84a2-9def682b5033</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="number" name="First Pixel Index" narrative="The index of the first pixel from the left of the colour image" />

</outputs>

</stage>

<stage stageid="30a1f8e8-5c67-4cb4-8602-f7782964129d" name="Colour" type="Data">

<subsheetid>1415e255-6251-4f44-84a2-9def682b5033</subsheetid>

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</narrative>

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```

```
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<subsheetid>1415e255-6251-4f44-84a2-9def682b5033</subsheetid>

<narrative>

</narrative>

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<display>-105</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<subsheetid>1415e255-6251-4f44-84a2-9def682b5033</subsheetid>

<narrative>

</narrative>
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<alwaysinit/>

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<stage stageid="0f8e4bbb-e816-4a9e-a972-3ab769d9239c" name="Invert Logic" type="Data">

<subsheetsid>1415e255-6251-4f44-84a2-9def682b5033</subsheetsid>

<narrative>

</narrative>

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</stage>

<stage stageid="bcd71aa-15c6-440a-a006-c2a5f32d9343" name="Find First Pixel From Direction" type="Data">

<subsheetsid>260695ce-598a-45da-857b-faaf399998a1</subsheetsid>

<narrative>Finds the index of the first row or column of pixels from the given direction, containing a pixel of

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="44f28f15-0b20-4c21-83f1-cc7f80092cdd" name="Start" type="Start">

<subsheetid>260695ce-598a-45da-857b-faaf399998a1</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Colour" narrative="The colour of interest, expressed as AARRGGBB in hex form

<input type="image" name="Image" narrative="The image to be examined." stage="Image"/>

<input type="flag" name="Invert Logic" narrative="When true, the first pixel NOT equal to the specified col

<input type="text" name="Direction" narrative="The direction to search from - Left, Right, Top, Bottom" stag

</inputs>

<onsuccess>4d5132e6-f382-4bd7-97c9-69e7c58f5a7d</onsuccess>

</stage>

<stage stageid="b79ccae7-75cc-4bcc-84f4-749e4f82a147" name="Colour" type="Data">

<subsheetid>260695ce-598a-45da-857b-faaf399998a1</subsheetid>

<narrative>

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<subsheetsid>260695ce-598a-45da-857b-faaf399998a1</subsheetsid>

<narrative>

</narrative>

<displayx>150</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="9c15ce02-d385-407a-965a-1794ec504bea" name="Invert Logic" type="Data">

<subsheetsid>260695ce-598a-45da-857b-faaf399998a1</subsheetsid>
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<narrative>

</narrative>

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<displayy>-60</displayy>

<displaywidth>60</displaywidth>

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<datatype>flag</datatype>

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<stage stageid="d20f9712-8c03-4fb2-a7ea-6d03460bcf03" name="Direction" type="Data">

<subsheetid>260695ce-598a-45da-857b-faaf399998a1</subsheetid>

<narrative>

</narrative>

<displayx>270</displayx>

<displayy>-60</displayy>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="4d5132e6-f382-4bd7-97c9-69e7c58f5a7d" name="Find First Pixel" type="Code">

<subsheetid>260695ce-598a-45da-857b-faaf399998a1</subsheetid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>45</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="image" name="Image" expr="[Image]"/>

<input type="text" name="Test Colour" expr="[Colour]"/>

<input type="flag" name="Invert Logic" expr="[Invert Logic]"/>

<input type="text" name="Direction" expr="[Direction]"/>

</inputs>

<outputs>

<output type="number" name="FirstPixelIndex" stage="First Pixel Index"/>

</outputs>

<onsuccess>e8fcf813-e125-4a62-aef5-3009e3839408</onsuccess>

<code>'First Validate the input colour

If Test_Colour.Length = 8

For Each ch as Char In Test_Colour.ToCharArray()

If Not char.IsNumber(ch) Then

Dim IsValidChar As Boolean = False

For Each ValidChar As Char In New Char() {"A", "B", "C", "D", "E", "F"}

If char.ToUpper(ch).Equals(ValidChar) Then

IsValidChar = True

Exit For

End If

Next

If Not IsValidChar Then

Throw New ArgumentException("The supplied test colour '" & Test_Colour & "' is not v

End If

End If

Next

End If

Dim c as System.Drawing.Color

FirstPixelIndex = -1

Dim StartXIndex As Integer

Dim EndXIndex As Integer

Dim StartYIndex As Integer

Dim EndYIndex As Integer

Dim XStep As Integer= 1

Dim YStep As Integer= 1

Select Case Direction

Case "Left"

StartXIndex = 0

EndXIndex = Image.Width - 1

StartYIndex = 0

EndYIndex = Image.Height - 1

Case "Right"

StartXIndex = Image.Width - 1

EndXIndex = 0

StartYIndex = 0

EndYIndex = Image.Height - 1

Case "Top"

StartXIndex = 0

EndXIndex = Image.Width - 1

StartYIndex = 0

EndYIndex = Image.Height - 1

Case "Bottom"

StartXIndex = 0

EndXIndex = Image.Width - 1

StartYIndex = Image.Height - 1

EndYIndex = 0

Case Else

Throw New ApplicationException("Invalid Direction - " && Direction)

End Select

If StartXIndex > EndXIndex Then XStep = -1

If StartYIndex > EndYIndex Then YStep = -1

If Direction = "Left" OrElse Direction = "Right" Then

For x As Integer = StartXIndex To EndXIndex Step XStep

For y As Integer = StartYIndex To EndYIndex Step YStep

c = Image.GetPixel(x, y)

Dim Match As Boolean = c.Name.ToUpper() = Test_Colour.ToUpper()

If (Match AndAlso Not Invert_Logic) OrElse (Not Match AndAlso Invert_Logic) Then

FirstPixelIndex = x

Exit Sub

End If

Next

Next

Else

'Top or Bottom

For y As Integer = StartYIndex To EndYIndex Step YStep

For x As Integer = StartXIndex To EndXIndex Step XStep

c = Image.GetPixel(x, y)

Dim Match As Boolean = c.Name.ToUpper() = Test_Colour.ToUpper()

If (Match AndAlso Not Invert_Logic) OrElse (Not Match AndAlso Invert_Logic) Then

FirstPixelIndex = y

Exit Sub

End If

Next

Next

End If

</code>

</stage>

<stage stageid="095a4aaf-717c-4e5b-8fd7-6dbd5dc391b4" name="Find First Pixel From Direction" type="

<subsheetid>1415e255-6251-4f44-84a2-9def682b5033</subsheetid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>0</displayy>

<displaywidth>120</displaywidth>

<displayheight>90</displayheight>

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<inputs>

<input type="text" name="Colour" narrative="The colour of interest, expressed as AARRGGBB in hex form

<input type="image" name="Image" narrative="The image to be examined." expr="[Image]"/>

<input type="flag" name="Invert Logic" narrative="When true, the first pixel NOT equal to the specified color"

<input type="text" name="Direction" narrative="The direction to search from - Left, Right, Top, Bottom" expr="[Direction]"/>

</inputs>

<outputs>

<output type="number" name="First Pixel Index" narrative="The index of the first pixel from the left of the color"

</outputs>

<onsuccess>f4be1535-44d7-41de-b71c-e998382198ac</onsuccess>

<processid>260695ce-598a-45da-857b-faaf399998a1</processid>

</stage>

<stage stageid="e8fcf813-e125-4a62-aef5-3009e3839408" name="End" type="End">

<subsheetid>260695ce-598a-45da-857b-faaf399998a1</subsheetid>

<loginhibit/>

<narrative>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="number" name="First Pixel Index" narrative="The index of the first pixel from the left of the color"

</outputs>

</stage>
```

```
<stage stageid="8b653267-9f22-4a6c-98a5-1786802aacb3" name="First Pixel Index" type="Data">
<subsheetid>260695ce-598a-45da-857b-faaf399998a1</subsheetid>
<narrative>
</narrative>
<displayx>90</displayx>
<displayy>135</displayy>
<displaywidth>60</displaywidth>
<displayheight>30</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
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<initialvalue/>
<private/>
<alwaysinit/>
</stage>
```

```
<stage stageid="abc37893-2948-4e5a-a928-8d3ff9d1caf0" name="Find First Pixel From Bottom" type="Su
<subsheetid>86993a9b-04d3-4088-97b9-173ee7ae96e5</subsheetid>
<narrative>Finds the index of the first row of pixels from the bottom, containing a pixel of the specified colo
<displayx>-195</displayx>
<displayy>-105</displayy>
<displaywidth>150</displaywidth>
<displayheight>90</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
</stage>
```

```
<stage stageid="507e6b7e-f58f-4a64-bfa2-0208fb1f4b5b" name="Start" type="Start">
<subsheetid>86993a9b-04d3-4088-97b9-173ee7ae96e5</subsheetid>
<loginhibit/>
<narrative>
```

```
</narrative>

<displayx>105</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Colour" narrative="The colour of interest, expressed as AARRGGBB in hex form

<input type="image" name="Image" narrative="The image to be examined." stage="Image"/>

<input type="flag" name="Invert Logic" narrative="When true, the first pixel NOT equal to the specified color"

</inputs>

<onsuccess>9587f833-3c43-452e-b0fc-44f0b23ee385</onsuccess>

</stage>

<stage stageid="5ad5e976-e5ca-431c-af3a-5413c033f7eb" name="End" type="End">

<subsheetid>86993a9b-04d3-4088-97b9-173ee7ae96e5</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>105</displayx>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="number" name="First Pixel Index" narrative="The index of the first pixel from the left of the color"

</outputs>

</stage>
```

```
<stage stageid="324d4eab-2e2c-4221-a15d-675362686388" name="Colour" type="Data">
<subsheetid>86993a9b-04d3-4088-97b9-173ee7ae96e5</subsheetid>
<narrative>
</narrative>
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<displayy>-105</displayy>
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<displayheight>30</displayheight>
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<private/>
<alwaysinit/>
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<stage stageid="a4ac85c2-9007-4dfc-85b5-c41fc2651643" name="Image" type="Data">
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<narrative>
</narrative>
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<alwaysinit/>
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</stage>

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<narrative>

</narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="e22ee215-2ceb-4749-8cfd-0bc744f8597f" name="Invert Logic" type="Data">

<subsheetid>86993a9b-04d3-4088-97b9-173ee7ae96e5</subsheetid>

<narrative>

</narrative>

<displayx>300</displayx>

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<initialvalue/>

<private/>
```

```
<alwaysinit/>

</stage>

<stage stageid="9587f833-3c43-452e-b0fc-44f0b23ee385" name="Find First Pixel From Direction" type="S

<subsheetid>86993a9b-04d3-4088-97b9-173ee7ae96e5</subsheetid>

<narrative>

</narrative>

<displayx>105</displayx>

<displayy>0</displayy>

<displaywidth>120</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Colour" narrative="The colour of interest, expressed as AARRGGBB in hex form

<input type="image" name="Image" narrative="The image to be examined." expr="[Image]"/>

<input type="flag" name="Invert Logic" narrative="When true, the first pixel NOT equal to the specified col

<input type="text" name="Direction" narrative="The direction to search from - Left, Right, Top, Bottom" exp

</inputs>

<outputs>

<output type="number" name="First Pixel Index" narrative="The index of the first pixel from the left of the c

</outputs>

<onsuccess>5ad5e976-e5ca-431c-af3a-5413c033f7eb</onsuccess>

<processid>260695ce-598a-45da-857b-faaf399998a1</processid>

</stage>

<stage stageid="fb7b0b1d-6ad3-42ae-abf7-ae9c71c9000e" name="Image Is Uniform Colour" type="SubSh

<subsheetid>51f754b0-95a4-49ae-8911-4df231659481</subsheetid>

<narrative>Determines whether the image contains a single colour or not</narrative>

<displayx>-195</displayx>
```



```
<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="3f18bf6a-8403-4cb1-8086-38e576dcb2a5" name="Start" type="Start">

<subsheetid>51f754b0-95a4-49ae-8911-4df231659481</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-45</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="image" name="Image" narrative="The image to test for uniform colour" stage="Image"/>

</inputs>

<onsuccess>bec769bc-c01b-43ba-875b-cb97cb2f090a</onsuccess>

</stage>

<stage stageid="bd709bcc-53a9-4ff8-abc5-a3b2a5f45b6c" name="End" type="End">

<subsheetid>51f754b0-95a4-49ae-8911-4df231659481</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-45</displayx>

<displayy>-45</displayy>
```

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Uniform" narrative="True if the image contains a single colour (regardless of wh

</outputs>

</stage>

<stage stageid="bec769bc-c01b-43ba-875b-cb97cb2f090a" name="Is Uniform" type="Code">

<subsheetid>51f754b0-95a4-49ae-8911-4df231659481</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-45</displayx>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="image" name="Image" expr="[Image]"/>

</inputs>

<outputs>

<output type="flag" name="Uniform" stage="Uniform"/>

</outputs>

<onsuccess>bd709bcc-53a9-4ff8-abc5-a3b2a5f45b6c</onsuccess>

<code>' Assume uniform

Uniform = True

' An empty image is (sort of) uniform

If Image.Size = Size.Empty Then Return

' Get the argb value of the origin

Dim argb as Integer = Image.GetPixel(0,0).ToArgb()

' And check each pixel against that value

For y As Integer = 0 To Image.Height - 1

For x As Integer = 0 To Image.Width - 1

If Image.GetPixel(x, y).ToArgb() <> argb Then

Uniform = False

Return

End If

Next

Next

</code>

</stage>

<stage stageid="8428e08f-f97f-4e39-880e-9a0b8c32e364" name="Image" type="Data">

<subsheetid>51f754b0-95a4-49ae-8911-4df231659481</subsheetid>

<narrative>

</narrative>

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<datatype>image</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="8d1707e3-f291-4617-b0c7-083b8834d748" name="Uniform" type="Data">

<subsheetid>51f754b0-95a4-49ae-8911-4df231659481</subsheetid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

</process>

<process name="Utility - JSON" version="6.7.0.0" bpversion="6.0.0.0" narrative="An object for parsing JSON">

<appdef>

<element name="Application Root">

<id>8f20ac0c-296f-43c3-b0d9-59b5b2b7da1c</id>

<type>Application</type>

<basetype>Application</basetype>

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<diagnose>False</diagnose>

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<name>Collection to JSON</name>

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<reference>System.Drawing.dll</reference>

<reference>Newtonsoft.Json.dll</reference>

<reference>System.Core.dll</reference>

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<import>System.Collections</import>

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<language>visualbasic</language>

<globalcode></globalcode>

<code> Private Class JSON

Public Const Array As String = "JSON:Array"

Public Const Null As String = "JSON:Null"

End Class

Private mUseNewParseMethod As Boolean

Public Function ConvertToJSON(ByVal dt As DataTable) As String

Dim o As Object = SerialiseGeneric(dt, True)

Return JsonConvert.SerializeObject(o)

End Function

Public Function SerialiseGeneric(ByVal o As Object, ByVal removeArray As Boolean) As Object

Dim dt As DataTable = TryCast(o, DataTable)

If dt IsNot Nothing Then

Return SerialiseDataTable(dt)

End If


```
Dim dr As DataRow = TryCast(o, DataRow)
```

```
If dr IsNot Nothing Then
```

```
Return SerialiseDataRow(dr, removeArray)
```

```
End If
```

```
Dim s As String = TryCast(o, String)
```

```
If s IsNot Nothing AndAlso s = JSON.Null Then
```

```
Return Nothing
```

```
End If
```

```
If o IsNot Nothing Then
```

```
Return o
```

```
End If
```

```
Return Nothing
```

```
End Function
```

```
Public Function SerialiseDataTable(ByVal dt As DataTable) As Object
```

```
If IsSingleRow(dt) Then
```

```
Return SerialiseGeneric(dt.Rows(0), False)
```

```
Else
```

```
Dim ja As New JArray()
```

```
For Each r As DataRow In dt.Rows
```

```
ja.Add(SerialiseGeneric(r, True))
```

```
Next
```

```
Return ja
```

End If

End Function

Public Function IsSingleRow(ByVal dt As DataTable) As Boolean

If dt.ExtendedProperties.Contains("SingleRow") Then

Return CBool(dt.ExtendedProperties("SingleRow"))

End If

'Fallback for older versions of blueprism

Return dt.Rows.Count = 1

End Function

Public Function SerialiseDataRow(ByVal dr As DataRow, ByVal removeArray As Boolean) As Object

Dim jo As New JObject()

For Each c As DataColumn In dr.Table.Columns

Dim s As String = c.ColumnName

If removeArray AndAlso s = JSON.Array Then

Return SerialiseGeneric(dr(s), True)

End If

jo(s) = JToken.FromObject(SerialiseGeneric(dr(s), False))

Next

Return jo

End Function

Public Function ConvertToDataTable(ByVal json As String) As DataTable

Dim o As Object = JsonConvert.DeserializeObject(json)

Return DirectCast(DeserialiseGeneric(o, True), DataTable)

End Function

```
Private Function DeserialiseGeneric(ByVal o As Object, ByVal populate As Boolean) As Object

Dim a As JArray = TryCast(o, JArray)

If a IsNot Nothing Then

Return If(mUseNewParseMethod,

DeserialiseArrayWithoutJArray(a, populate),

DeserialiseArray(a, populate)

)

End If


Dim jo As JObject = TryCast(o, JObject)

If jo IsNot Nothing Then

Return DeserialiseObject(jo, populate)

End If


Dim jv As JValue = TryCast(o, JValue)

If jv IsNot Nothing Then

Return jv.Value

End If


Return JSON.Null

End Function


Private Function GetKey(ByVal kv As KeyValuePair(Of String, JToken)) As String

If kv.Key IsNot Nothing Then

Return kv.Key.ToString()

End If
```

Return ""

End Function

Private Function DeserialiseObject(ByVal o As JObject, ByVal populate As Boolean) As DataTable

Dim dt As New DataTable

For Each kv As KeyValuePair(Of String, JToken) In o

Dim type As Type = GetTypeOf(DeserialiseGeneric(kv.Value, False))

dt.Columns.Add(GetKey(kv), type)

Next

If populate Then

Dim dr As DataRow = dt.NewRow()

For Each kv As KeyValuePair(Of String, JToken) In o

dr(GetKey(kv)) = DeserialiseGeneric(kv.Value, True)

Next

dt.Rows.Add(dr)

End If

Return dt

End Function

Private Function DeserialiseArrayWithoutJArray(ByVal jarr As JArray, ByVal populate As Boolean) As DataTable

Dim dt As New DataTable

Dim first As Type = Nothing

For Each e As Object In jarr

If first Is Nothing Then

first = GetTypeOf(DeserialiseGeneric(e, False))

End If

If GetTypeOf(DeserialiseGeneric(e, False)) IsNot first Then

Throw New Exception("Data Type mismatch in array")

End If

Next

Dim columns As New Specialized.OrderedDictionary()

Dim allTypesInColumnsMatch = jarr.All(

Function(e)

If Not TypeOf e Is JObject Then Return False

For Each pair As KeyValuePair(Of String, JToken) In DirectCast(e, JObject)

Dim val As Object = pair.Value

If TypeOf val Is JValue Then val = CType(val, JValue).Value

Dim tp = If(val, CObj("")).GetType()

If columns.Contains(pair.Key) Then

If tp <> columns(pair.Key) Then Return False

Else

columns(pair.Key) = tp

End If

Next

Return True

End Function

)

If allTypesInColumnsMatch Then

For Each pair As DictionaryEntry In columns

Dim key As String = CStr(pair.Key)

Dim tp as Type = CType(pair.Value, Type)

If tp = GetType(JObject) OrElse tp = GetType(JArray) Then

dt.Columns.Add(key, GetType(DataTable))

Else

dt.Columns.Add(key, tp)

End If

Next

ElseIf first IsNot Nothing Then

dt.Columns.Add(JSON.Array, first)

End If

If populate Then

For Each e As Object In jarr

Dim dr As DataRow = dt.NewRow()

If allTypesInColumnsMatch Then

For Each pair As KeyValuePair(Of String, JToken) In DirectCast(e, JObject)

dr(pair.Key) = DeserialiseGeneric(pair.Value, True)

Next

Else

dr(JSON.Array) = DeserialiseGeneric(e, True)

End If

dt.Rows.Add(dr)

Next

End If

Return dt

End Function

Private Function DeserialiseArray(ByVal o As JArray, ByVal populate As Boolean) As DataTable

Dim dt As New DataTable

Dim first As Type = Nothing

For Each e As Object In o

If first Is Nothing Then

first = GetTypeInfo(DeserialiseGeneric(e, False))

End If

If GetTypeInfo(DeserialiseGeneric(e, False)) IsNot first Then

Throw New Exception("Data Type mismatch in array")

End If

Next

If first IsNot Nothing Then

dt.Columns.Add(JSON.Array, first)

End If

If populate Then

For Each e As Object In o

Dim dr As DataRow = dt.NewRow()

dr(JSON.Array) = DeserialiseGeneric(e, True)

```
dt.Rows.Add(dr)
```

```
Next
```

```
End If
```

```
Return dt
```

```
End Function
```

```
Private Function GetTypeOf(ByVal o As Object) As Type
```

```
If o Is Nothing Then Return GetType(String)
```

```
Return o.GetType
```

```
End Function</code>
```

```
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```

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<input type="text" name="json" stage="json"/>

</inputs>

<onsuccess>779de445-0658-4a45-a1ef-a38d6de24429</onsuccess>

</stage>

<stage stageid="66526e3e-8b9e-4452-9ca8-f70baa9aec4a" name="End" type="End">

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<outputs>
```

```
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</outputs>

</stage>

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<narrative>Clean Up Page
```

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

```
<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

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```

```
<stage stageid="d92fd7fc-b028-457a-a14a-17d66c4b5513" name="new" type="Note">

<narrative>Initialise Page
```

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

```
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```

<display>60</display>

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</stage>

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<loginhibit/>

<narrative>

</narrative>

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<inputs>

<input type="text" name="json" expr="[json]"/>

</inputs>

<outputs>

<output type="collection" name="result" stage="Result"/>

</outputs>

<onsuccess>66526e3e-8b9e-4452-9ca8-f70baa9aec4a</onsuccess>

<code>result = ConvertToDataTable(json)</code>

</stage>

<stage stageid="da3984e5-ce52-4649-81c5-a71d452a5ba0" name="json" type="Data">

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<alwaysinit/>

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</inputs>

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<alwaysinit/>

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</outputs>

<onsuccess>ede1f653-07f1-42eb-8616-8d2d3dfb5244</onsuccess>

<code>json = convertToJSON(data)</code>

```
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<alwaysinit/>

</stage>

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<private/>
```



```
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</inputs>

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</outputs>

</stage>

<stage stageid="8cb729e4-705c-400b-8d1d-0b54dd51fb94" name="JSON To Collection Without JArray" ty

<subsheetid>e53062c7-68de-4763-b37a-456688d0d607</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<inputs>

<input type="text" name="json" expr="[json]"/>

</inputs>

<outputs>

<output type="collection" name="result" stage="Result"/>

</outputs>

<onsuccess>21187841-67f3-4ed1-a3b0-de763bb1e801</onsuccess>

<code>Try

mUseNewParseMethod = True

result = ConvertToDataTable(json)

Finally

mUseNewParseMethod = False

End Try</code>

</stage>

<stage stageid="b3a37b86-f505-4522-80d4-2c9e45ab723c" name="json" type="Data">

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<alwaysinit/>

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<alwaysinit/>

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<basetype>Application</basetype>

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</element>

</appdef>

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</view>
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<preconditions/>

<endpoint narrative=""/>

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<name>Add to Dictionary</name>

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<name>Item ID from Dictionary</name>

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<name>Remove From Dictionary</name>

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</view>

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<name>Lock Item</name>

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<name>Release Lock</name>

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</view>

</subsheet>

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<stage stageid="3e6bb003-f4c5-4058-b741-5212a895333e" name="End" type="End">

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</narrative>

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<reference>System.Drawing.dll</reference>

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<import>System.Drawing</import>

</imports>

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</globalcode>
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<code>

</code>

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<inputs>

<input type="text" name="Item Key" stage="Item Key"/>

<input type="timespan" name="Timeout" stage="Timeout"/>

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<onsuccess>5cbfd3da-5948-4ab5-a12b-edd4e136c358</onsuccess>

</stage>

<stage stageid="c160feaa-d779-416d-abf1-9d2bb47e6dbf" name="End" type="End">

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<stage stageid="16dacabe-90cb-49ec-b92a-d64489365f8b" name="new" type="Note">

<subsheetsid>1a46f257-7bd7-4c79-bd2f-45b93d4946c4</subsheetsid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="bab68dee-ef0a-4be4-a4d3-9e9da3957066" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

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<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="05a8ceb2-ae87-49ef-85fe-ec9536b97075" name="Open Items" type="Collection">

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<datatype>collection</datatype>

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<collectioninfo>

<field name="Queue Name" type="text"/>

<field name="Item ID" type="text"/>

<field name="Item Key" type="text"/>

</collectioninfo>

<initialvalue/>

</stage>

<stage stageid="33af5ea1-b0d3-47ec-b089-13184ebd08e0" name="Item Key" type="Data">

<subsheetid>39b8267a-c473-4c70-9460-929811e434fa</subsheetid>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>
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<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Queue Name" narrative="The name of the queue to add items to" expr="[Queue
<input type="text" name="Key Filter" narrative="Optionally, a key value to filter by. Only items with this key
<input type="text" name="Tag Filter" narrative="Optionally, a tag mask to filter by. The tag should be in the
</inputs>

<outputs>

<output type="text" name="Item ID" narrative="The ID of the item retrieved - empty if there are none availa
<output type="collection" name="Data" narrative="The data associated with the item - a single collection ro
<output type="text" name="Status" narrative="The status of the item." stage=""/>
<output type="number" name="Attempts" narrative="The number of attempts already made to work this ite
</outputs>

<onsuccess>35d1273e-3be2-4fe6-83be-522926fadc68</onsuccess>

<resource object="Blueprism.Automate.clsWorkQueuesActions" action="Get Next Item"/>

</stage>

<stage stageid="54e2c328-04e8-4fb6-8548-42c669beb749" name="Item ID" type="Data">
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</stage>

<stage stageid="35d1273e-3be2-4fe6-83be-522926fadc68" name="Got Item?" type="Decision">

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<decision expression="[Item ID] &lt;&gt; &quot;&quot;"/>

<ontrue>e78a5aec-1060-4cdd-a5d0-c2b8395aaba0</ontrue>

<onfalse>b02e7823-0c34-4fea-8022-2882e82d664d</onfalse>

</stage>

<stage stageid="4f49c4f9-1e51-4aa1-8a76-8abc120603d8" name="Timeout" type="Data">

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<stage stageid="5cbfd3da-5948-4ab5-a12b-edd4e136c358" name="Start Time" type="Calculation">

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<onsuccess>d998e15c-8b94-409a-b6ad-b4dae95bc9df</onsuccess>

<calculation expression="Now()" stage="Start Time"/>

</stage>

<stage stageid="c70f3cf5-eee8-4003-a131-d5aee4a99d04" name="Start Time" type="Data">

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<stage stageid="b02e7823-0c34-4fea-8022-2882e82d664d" name="Timeout?" type="Decision">

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<loginhibit/>

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<decision expression="Now() - [Start Time] > [Timeout]"/>

<ontrue>db49422e-e45f-4fab-9db2-fb2809324db1</ontrue>

<onfalse>bf796355-10ec-4a81-9611-e24aaf4b96ad</onfalse>

</stage>

<stage stageid="db49422e-e45f-4fab-9db2-fb2809324db1" name="Exception1" type="Exception">

<subsheetid>39b8267a-c473-4c70-9460-929811e434fa</subsheetid>

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<exception type="Timeout" detail=""Timeout waiting for lock on item " & [Ite

</stage>

<stage stageid="a1dc34be-2e67-4fa5-97e3-d7affd6a57c5" name="Release Lock" type="SubSheetInfo">

<subsheetid>36e6ed40-192f-48c3-b17d-75284ac86507</subsheetid>

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<stage stageid="1864dc01-a33d-476f-ae3e-9805cbeba629" name="End" type="End">

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<stage stageid="d37980d2-ef9d-4eba-b19c-132e54820e11" name="Start" type="Start">

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<inputs>

<input type="text" name="Item Key" narrative="The key of the item to be unlocked." stage="Item Key"/>

<input type="flag" name="Error If Not Locked" narrative="Indicates whether an exception should be thrown"/>

</inputs>

<onsuccess>e5483d20-dd67-42ef-818e-d76532b29c78</onsuccess>

</stage>

<stage stageid="d2f70992-f51d-48dd-812e-20833826148c" name="Item Key" type="Data">

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<stage stageid="cd5f7ea8-65cf-4863-86bd-418c6b8829ef" name="Defer" type="Action">

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<inputs>

<input type="text" name="Item ID" narrative="The ID of the item to defer" expr="[Item ID]"/>

<input type="datetime" name="Until" narrative="When to resume processing the case" expr="Now()"/>

</inputs>

<onsuccess>e1fb1183-a056-464c-ba69-15758a7fcd25</onsuccess>

<resource object="Blueprism.Automate.clsWorkQueuesActions" action="Defer"/>

</stage>

<stage stageid="c3bef86c-67cd-43f8-9aea-b2e4739c05b6" name="Add to Dictionary" type="SubSheetInfo">

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<inputs>

<input type="text" name="Item ID" stage="Item ID"/>

<input type="text" name="Item Key" stage="Item Key"/>

</inputs>

<onsuccess>8f6cd284-a33c-4c26-a7c1-f3bdc8923224</onsuccess>

</stage>

<stage stageid="7dda72be-3705-4754-aac7-1f95b4d32748" name="End" type="End">

<subsheetsid>8528e309-fa4d-4abc-8eb3-26c087288eab</subsheetsid>

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</stage>

<stage stageid="714dd282-2b54-40d7-af90-c36297545521" name="Item ID" type="Data">

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</stage>

<stage stageid="66ef757e-0135-4bd6-8f21-842b2187a698" name="Item Key" type="Data">

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</narrative>

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</stage>

<stage stageid="d7494916-850e-4c20-9dbb-85ba3228cc7b" name="New Row" type="Action">

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</narrative>

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<inputs>

<input type="text" name="Collection Name" narrative="The name of the collection to be modified" expr="&

</inputs>

<onsuccess>3f280f88-002a-4640-ba99-22bebe7a3eaa</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Add Row"/>

</stage>

<stage stageid="3f280f88-002a-4640-ba99-22bebe7a3eaa" name="Values" type="MultipleCalculation">

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<loginhibit/>

<narrative>

</narrative>

$$15$$
$$15$$
$$60$$
$$30$$

<onsuccess>7dda72be-3705-4754-aac7-1f95b4d32748</onsuccess>

<steps>

```
<calculation expression="[Queue Name]" stage="Open Items.Queue Name"/>
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<calculation expression="[Item ID]" stage="Open Items.Item ID"/>

```
<calculation expression="[Item Key]" stage="Open Items.Item Key"/>
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</steps>

</stage>

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<stage stageid="8c30cc6c-4a86-454f-a784-e24f0b6ff488" name="Item ID from Dictionary" type="SubShee
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<subsheetid>83a1957b-e164-4408-ba12-8b16b686769e</subsheetid>

<narrative>

</narrative>

$$-195$$
$$-105$$
$$150$$
$$90$$

</stage>

```
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<output type="text" name="Item ID" stage="Item ID"/>

</outputs>

</stage>

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<inputs>

<input type="text" name="Item Key" stage="Item Key"/>

</inputs>

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</stage>
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<stage stageid="d64df9a9-78c4-4223-a35b-f118ca59983d" name="For Each Open Item" type="LoopStart">

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<onsuccess>1754c5bb-6679-4128-ad40-755da99d1ec8</onsuccess>

<groupid>a635c1d6-d740-46dd-b312-be07394f26f8</groupid>

<looptype>ForEach</looptype>

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<loopdata>Open Items</loopdata>

</stage>

<stage stageid="5e528a74-f5b8-47a7-8b2a-3794e087bdc0" name="Next Item" type="LoopEnd">

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</stage>

<stage stageid="1754c5bb-6679-4128-ad40-755da99d1ec8" name="Match?" type="Decision">

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<decision expression="[Queue Name] = [Open Items.Queue Name]&#xA;and&#xA;[Item Key] =

<ontrue>c86a166c-7f6b-4a4b-bd16-7bb0906a20b9</ontrue>
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<calculation expression="[Open Items.Item ID]" stage="Item ID"/>

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<input type="text" name="Item Key" expr="[Item Key]"/>
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</inputs>

<outputs>

<output type="text" name="Item ID" stage="Existing Item ID"/>

</outputs>

<onsuccess>95c667e2-8cbd-4291-ae4f-94eb517a9def</onsuccess>

<processid>83a1957b-e164-4408-ba12-8b16b686769e</processid>

</stage>

<stage stageid="95c667e2-8cbd-4291-ae4f-94eb517a9def" name="Found?" type="Decision">

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<decision expression="[Existing Item ID] &lt;&gt; &quot;&quot;"/>

<ontrue>614ed257-6f55-4089-867c-96421e2b0419</ontrue>

<onfalse>d7494916-850e-4c20-9dbb-85ba3228cc7b</onfalse>

</stage>

<stage stageid="614ed257-6f55-4089-867c-96421e2b0419" name="Exception2" type="Exception">

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<exception type="Configuration Exception" detail=""Item already in dictionary""/>

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<stage stageid="896364b1-4496-4352-aa9c-eac86009ca25" name="Remove From Dictionary" type="SubS

<subsheetsid>88d6eef4-e4f7-4016-92b5-b8bc7d7fdfea</subsheetsid>

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<inputs>

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<onsuccess>4b7a0b18-7cda-42eb-bc69-a597134fbfaa</onsuccess>

</stage>

<stage stageid="4b7a0b18-7cda-42eb-bc69-a597134fbfaa" name="For Each Open Item" type="LoopStart"

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<groupid>82873f9f-1a34-4c5b-bfa5-be57a7b164ca</groupid>

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<loopdata>Open Items</loopdata>

</stage>

<stage stageid="aaa9472f-5e88-4761-a259-9873d005dcdc" name="Next Item" type="LoopEnd">

<subsheetid>88d6eef4-e4f7-4016-92b5-b8bc7d7fdfea</subsheetid>

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</stage>

<stage stageid="ee41e21c-e09a-4b4f-b8dd-97033565112d" name="Match?" type="Decision">

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<onfalse>aaa9472f-5e88-4761-a259-9873d005dcdc</onfalse>

</stage>

<stage stageid="0d0e2595-c251-40c4-b39d-5e9f56059121" name="Remove" type="Action">

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<onsuccess>0a3d611e-b91b-4bc2-ad08-6d929bd269ac</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Remove Row"/>

</stage>

<stage stageid="0fe6e637-f2c6-4abb-b52c-6289220a09c7" name="Exception3" type="Exception">

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<exception type="Configuration Exception" detail="&quot;Item not found in dictionary - cannot remove
</stage>

<stage stageid="9e29024a-8bc5-4c26-bfc1-84718bffa45e" name="For Each Open Item" type="LoopStart">

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<groupid>3bf3236f-3bfa-40fc-9051-944759b72a2e</groupid>

<looptype>ForEach</looptype>

<loopdata>Open Items</loopdata>

</stage>

<stage stageid="fc58b778-a789-4610-b7a5-708a3c23b94e" name="Next Item" type="LoopEnd">

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</stage>

<stage stageid="e5483d20-dd67-42ef-818e-d76532b29c78" name="Item ID from Dictionary" type="SubSh

<subsheetsid>36e6ed40-192f-48c3-b17d-75284ac86507</subsheetsid>

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<inputs>

<input type="text" name="Item Key" expr="[Item Key]"/>

</inputs>

<outputs>

<output type="text" name="Item ID" stage="Item ID"/>

</outputs>

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</stage>

<stage stageid="11bd4f89-e683-41b8-b23d-02f8b8118c6e" name="Found?" type="Decision">

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<decision expression="[Item ID] <> """/>

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<onfalse>25f0a550-b572-4b48-b8e6-bcebfe8f8118</onfalse>

</stage>

<stage stageid="829f6373-71f3-4343-96c1-4680faab683d" name="Remove from Dictionary" type="SubSh

<subsheetsid>36e6ed40-192f-48c3-b17d-75284ac86507</subsheetsid>

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<inputs>

<input type="text" name="Item ID" expr="[Item ID]"/>

</inputs>

<onsuccess>cd5f7ea8-65cf-4863-86bd-418c6b8829ef</onsuccess>

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<stage stageid="5833d13d-bd66-4ad9-940c-c2aad4ddf980" name="Item ID" type="Data">

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<exception type="Configuration Exception" detail=""Cannot release item - not found in dictionary"

</stage>

<stage stageid="e78a5aec-1060-4cdd-a5d0-c2b8395aaba0" name="Add to Dictionary" type="SubSheet">

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<inputs>

<input type="text" name="Item ID" expr="[Item ID]"/>

<input type="text" name="Item Key" expr="[Item Key]"/>

</inputs>

<onsuccess>c160feaa-d779-416d-abf1-9d2bb47e6dbf</onsuccess>

<processid>8528e309-fa4d-4abc-8eb3-26c087288eab</processid>

</stage>

<stage stageid="4b70d5d8-9e1b-4512-82d3-5a0caa734af3" name="Release Lock" type="SubSheet">

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<inputs>

<input type="text" name="Item Key" narrative="The key of the item to be unlocked." expr="[Open Items.Item Key]"/>

<input type="flag" name="Error If Not Locked" narrative="Indicates whether an exception should be thrown if the item is not locked." expr="[Error If Not Locked]"/>

</inputs>

<onsuccess>fc58b778-a789-4610-b7a5-708a3c23b94e</onsuccess>

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<stage stageid="238fd8a4-ff09-4b06-baea-14be9f8fca84" name="Resume1" type="Resume">

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</stage>

<stage stageid="816c64fd-5a60-47d2-874b-33581ac0543e" name="Item ID" type="Data">

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<stage stageid="ee098ccb-a35b-4685-bb52-ee13c3660d92" name="Set Up Queue Item" type="SubSheet">

<subsheetid>e5d65eae-43e9-4bb2-ab20-3b349d092cde</subsheetid>

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<stage stageid="b8994811-1221-4a60-87b2-e56a2756d291" name="Start" type="Start">

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<inputs>

<input type="text" name="Item Key" narrative="The item key of the queue item to be created" stage="Item

<input type="flag" name="Ignore If Exists" narrative="When true, no action will be taken if the item already

</inputs>

<onsuccess>70adba11-0d37-43f4-b072-341e8a9fba5f</onsuccess>

</stage>

<stage stageid="3b2b4fff-7d48-432e-ba91-490ab36cca33" name="End" type="End">

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<collectioninfo>

<field name="Item Key" type="text"/>

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</stage>

<stage stageid="6ee915bc-4ec5-4fc3-b1e6-90c710aa3719" name="New Row" type="Action">

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<inputs>

<input type="text" name="Collection Name" narrative="The name of the collection to be modified" expr="&

</inputs>
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<onsuccess>e4c91440-fe42-4e9b-a593-2d086a254ff6</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Add Row"/>

</stage>

<stage stageid="e4c91440-fe42-4e9b-a593-2d086a254ff6" name="Values" type="Calculation">

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<onsuccess>418995c9-f69b-4a21-a58a-b5896d8824f2</onsuccess>

<calculation expression="[Item Key]" stage="Data.Item Key"/>

</stage>

<stage stageid="418995c9-f69b-4a21-a58a-b5896d8824f2" name="Add to Queue" type="Action">

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<inputs>

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<input type="text" name="Queue Name" narrative="The name of the queue to add items to" expr="[Queue Name]" />
<input type="collection" name="Data" narrative="A collection containing the data, one row for each item to be added" />
<input type="datetime" name="Defer Until" narrative="Optionally, the date/time the new item(s) should be created" />
<input type="number" name="Priority" narrative="Optionally, the priority for the new item(s). Lower number means higher priority" />
<input type="text" name="Tags" narrative="Optionally, a semi-colon-separated set of tags to apply to the queue item(s)" />
<input type="text" name="Status" narrative="Optionally, the initial status required of the work queue item(s)" />
</inputs>

<outputs>

<output type="collection" name="Item IDs" narrative="The IDs of the items which have been added to the queue" />
</outputs>

<onsuccess>3b2b4fff-7d48-432e-ba91-490ab36cca33</onsuccess>

<resource object="Blueprism.Automate.clsWorkQueuesActions" action="Add To Queue"/>

</stage>

<stage stageid="42913b2d-8e01-4a8a-8e22-65a08fa3cde8" name="Queue Name" type="Data">

<loginhibit/>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue xml:space="preserve">Locking Queue</initialvalue>

<alwaysinit/>

</stage>

<stage stageid="1d5cb36f-7219-4799-8616-7a1f2905ab06" name="Existing Item ID" type="Data">
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<subsheetid>8528e309-fa4d-4abc-8eb3-26c087288eab</subsheetid>

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<initialvalue/>

<private/>

<alwaysinit/>

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<stage stageid="201b6cbb-85fe-4228-8233-69fa3127e021" name="Error If Not Locked" type="Data">

<subsheetid>36e6ed40-192f-48c3-b17d-75284ac86507</subsheetid>

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<initialvalue>True</initialvalue>

<private/>

<alwaysinit/>

</stage>

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<stage stageid="25f0a550-b572-4b48-b8e6-bcebfe8f8118" name="Throw Error?" type="Decision">
<subsheetid>36e6ed40-192f-48c3-b17d-75284ac86507</subsheetid>
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</narrative>
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<decision expression="[Error If Not Locked]"/>
<ontrue>a4933b59-eaee-453d-b741-0aee31bd074c</ontrue>
<onfalse>aebe605a-1323-4f23-b798-8c0986a91880</onfalse>
</stage>

<stage stageid="aebe605a-1323-4f23-b798-8c0986a91880" name="anchor1" type="Anchor">
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<onsuccess>1864dc01-a33d-476f-ae3e-9805cbeba629</onsuccess>
</stage>

<stage stageid="84da6e4e-fce0-49e9-8de3-90d2aaf00f57" name="Ignore If Exists" type="Data">
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</narrative>

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<alwaysinit/>

</stage>

<stage stageid="70adba11-0d37-43f4-b072-341e8a9fba5f" name="Item Exists" type="Action">

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<loginhibit/>

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<inputs>

<input type="text" name="Queue Name" narrative="The name of the queue to check" expr="[Queue Name

<input type="text" name="Key" narrative="The key to check." expr="[Item Key]"/>

<input type="flag" name="Include Pending" narrative="Check any items in the queue which are currently a

```
<input type="flag" name="Include Deferred" narrative="Check any items in the queue which are currently d
<input type="flag" name="Include Completed" narrative="Check any items in the queue which are complet
<input type="flag" name="Include Terminated" narrative="Check any items in the queue which have been f
</inputs>

<outputs>

<output type="flag" name="Result" narrative="True if an item with the given key is in the queue, False othe
</outputs>

<onsuccess>ee1888ef-de98-4e02-ae32-5fdc7a1d159a</onsuccess>

<resource object="Blueprism.Automate.clsWorkQueuesActions" action="Is Item In Queue"/>

</stage>

<stage stageid="160f61b2-1133-436d-827c-13bc186b87a0" name="Exists" type="Data">

<subsheetsid>e5d65eae-43e9-4bb2-ab20-3b349d092cde</subsheetsid>

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</stage>

<stage stageid="ee1888ef-de98-4e02-ae32-5fdc7a1d159a" name="Exists?" type="Decision">

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<decision expression="[Exists]"/>

<ontrue>72ac249b-863b-4083-aecd-73f58a6649cc</ontrue>

<onfalse>6ee915bc-4ec5-4fc3-b1e6-90c710aa3719</onfalse>

</stage>

<stage stageid="72ac249b-863b-4083-aecd-73f58a6649cc" name="Throw Error?" type="Decision">

<subsheetid>e5d65eae-43e9-4bb2-ab20-3b349d092cde</subsheetid>

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<decision expression="[Ignore If Exists]=False"/>

<ontrue>70563429-28bc-454f-9bce-35bc9e8d0401</ontrue>

<onfalse>606571d6-7531-45c5-955c-b42ff7d1cd7a</onfalse>

</stage>

<stage stageid="70563429-28bc-454f-9bce-35bc9e8d0401" name="Exception5" type="Exception">

<subsheetid>e5d65eae-43e9-4bb2-ab20-3b349d092cde</subsheetid>
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</stage>

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<onsuccess>3b2b4fff-7d48-432e-ba91-490ab36cca33</onsuccess>

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<stage stageid="5284adfc-f465-421e-96d1-6a19ae8cb304" name="Sleep" type="SubSheetInfo">

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<inputs>

<input type="number" name="Sleep Time (Seconds)" stage="Sleep Time (Seconds)"/>

</inputs>

<onsuccess>be2bce45-1333-4555-931f-3133876a773d</onsuccess>

</stage>

<stage stageid="ea0e3448-3460-4035-b927-0136da5a1069" name="End" type="End">

<subsheetid>42312858-7074-4e68-9a5f-062306c0f439</subsheetid>

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</stage>

<stage stageid="bc854747-21ab-40cb-bb80-2af3f67d6f1c" name="Time Out1" type="WaitEnd">

<subsheetid>42312858-7074-4e68-9a5f-062306c0f439</subsheetid>

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<onsuccess>ea0e3448-3460-4035-b927-0136da5a1069</onsuccess>

<groupid>50c7bdeb-191b-4d6d-9e9f-e222397e2305</groupid>

</stage>

<stage stageid="be2bce45-1333-4555-931f-3133876a773d" name="Wait1" type="WaitStart">

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<groupid>50c7bdeb-191b-4d6d-9e9f-e222397e2305</groupid>
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<choices/>

<timeout>[Sleep Time (Seconds)]</timeout>

</stage>

<stage stageid="1a45e14b-1568-4cc6-bed6-65856ddc5735" name="Sleep Time (Seconds)" type="Data">

<subsheetid>42312858-7074-4e68-9a5f-062306c0f439</subsheetid>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e1fb1183-a056-464c-ba69-15758a7fcd25" name="Sleep In Case the Caller Requests Thi

<subsheetid>36e6ed40-192f-48c3-b17d-75284ac86507</subsheetid>

<loginhibit/>

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</narrative>

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<inputs>

<input type="number" name="Sleep Time (Seconds)" expr="2 * [Sleep Interval (Seconds)]"/>

</inputs>

<onsuccess>1864dc01-a33d-476f-ae3e-9805cbeba629</onsuccess>

<processid>42312858-7074-4e68-9a5f-062306c0f439</processid>

</stage>

<stage stageid="bf796355-10ec-4a81-9611-e24aaf4b96ad" name="Sleep" type="SubSheet">

<subsheetsid>39b8267a-c473-4c70-9460-929811e434fa</subsheetsid>

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<inputs>

<input type="number" name="Sleep Time (Seconds)" expr="[Sleep Interval (Seconds)]"/>

</inputs>

<onsuccess>d998e15c-8b94-409a-b6ad-b4dae95bc9df</onsuccess>

<processid>42312858-7074-4e68-9a5f-062306c0f439</processid>

</stage>

<stage stageid="af53aed8-4509-4007-b96e-3b7eb07f8570" name="Sleep Interval (Seconds)" type="Data">

<loginhibit/>

<narrative>

</narrative>

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<initialvalue>0.25</initialvalue>

<alwaysinit/>

</stage>

</process>

<process name="Utility - Network" version="6.7.0.0" narrative="A utility object with network related actions.

<appdef>

<element name="Utility - Environment (extended)">

<id>6d008319-b6b6-4fdf-b366-598241c67d1d</id>

<type>Application</type>

<basetype>Application</basetype>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

<apptypeinfo>

<id>Win32Attach</id>

<parameters>

<parameter>

<name>WindowTitle</name>

<value>Administrator*</value>

</parameter>

<parameter>

<name>ProcessName</name>
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<value>

</value>

</parameter>

<parameter>

<name>Path</name>

<value>

</value>

</parameter>

<parameter>

<name>CommandLineParams</name>

<value>

</value>

</parameter>

<parameter>

<name>NonInvasive</name>

<value>True</value>

</parameter>

<parameter>

<name>ProcessMode</name>

<value>Internal</value>

</parameter>

</parameters>

</apptypeinfo>

</appdef>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="5f21a6a2-cdb3-4d80-a8f3-b0efc6665b6f" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

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<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="2e5ddf19-f310-4429-8309-a2377c5851e5" type="Normal" published="True">

<name>Ping</name>

<view>

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<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<stage stageid="cc386a36-af51-4499-bc43-8a9a5407a881" name="Start" type="Start">

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</narrative>

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<onsuccess>6aae6635-0d2b-458f-9052-1ace6bbfd402</onsuccess>

</stage>

<stage stageid="6aae6635-0d2b-458f-9052-1ace6bbfd402" name="End" type="End">

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<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Net.NetworkInformation</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

</stage>

<stage stageid="78247cd0-4a8b-4ba9-9606-3a4c6cf51122" name="Clean Up" type="SubSheetInfo">

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</stage>

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<narrative>

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<stage stageid="2ba811c0-d8c0-4f72-a5c1-86f4954dc807" name="End" type="End">

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</stage>

<stage stageid="f5198681-ab5e-4781-8bdb-4b4cd39e77e1" name="new" type="Note">

<subsheetid>5f21a6a2-cdb3-4d80-a8f3-b0efc6665b6f</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="76772e92-3d97-452c-a128-db49a67a65d3" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="63a3a2b4-e879-437e-a3d2-90298c9a24f3" name="Ping" type="SubSheetInfo">

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<narrative>

</narrative>

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</stage>

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<stage stageid="adeb690c-9fd3-459a-8a4a-83b624907159" name="Start" type="Start">

<subsheetid>2e5ddf19-f310-4429-8309-a2377c5851e5</subsheetid>

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<displayheight>30</displayheight>

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<inputs>

<input type="text" name="Location" narrative="The computer name or ip address you want to ping" stage=

</inputs>

<onsuccess>70574e9d-3764-4839-8247-c5df0a5f2f1c</onsuccess>

</stage>

<stage stageid="3f976139-c96e-48a5-a84f-b4af0aa75921" name="End" type="End">

<subsheetid>2e5ddf19-f310-4429-8309-a2377c5851e5</subsheetid>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="flag" name="Ping Success" stage="Ping Success"/>
```



```
<output type="text" name="Address" stage="Address"/>

<output type="number" name="Round Trip Time (Milliseconds)" stage="Round Trip Time (Milliseconds)"/>

<output type="text" name="Ping Exception" stage="Ping Exception"/>

</outputs>

</stage>

<stage stageid="16c0b46b-f799-4e33-8121-5d6d779f4b71" name="Location" type="Data">

<subsheetid>2e5ddf19-f310-4429-8309-a2377c5851e5</subsheetid>

<loginhibit/>

<narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="70574e9d-3764-4839-8247-c5df0a5f2f1c" name="Ping" type="Code">

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<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<inputs>

<input type="text" name="Location" expr="[Location]"/>

</inputs>

<outputs>

<output type="flag" name="Success" stage="Ping Success"/>

<output type="text" name="Address" stage="Address"/>

<output type="number" name="Round Trip Time" stage="Round Trip Time (Milliseconds)"/>

<output type="text" name="Exception" stage="Ping Exception"/>

</outputs>

<onsuccess>3f976139-c96e-48a5-a84f-b4af0aa75921</onsuccess>

<code>Success = False

Dim pingSender As New Ping

Try

Dim reply As PingReply = pingSender.Send(Location)

If (reply.Status = IPStatus.Success) Then

Success = True

Address = reply.Address.ToString()

Round_Trip_Time = reply.RoundtripTime

End If

Catch ex as Exception

Exception = ex.ToString()

End Try</code>

</stage>

<stage stageid="ad81f7a6-de26-45e0-af37-1fcc16c65311" name="Ping Success" type="Data">

<subsheetsid>2e5ddf19-f310-4429-8309-a2377c5851e5</subsheetsid>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="8db99241-b839-49aa-a493-f51f61418185" name="Round Trip Time (Milliseconds)" type=

<subsheetsid>2e5ddf19-f310-4429-8309-a2377c5851e5</subsheetsid>

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</narrative>

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<private/>

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<alwaysinit/>

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<stage stageid="36226432-f5da-4f05-b068-dd8cc8996689" name="Address" type="Data">

<subsheetid>2e5ddf19-f310-4429-8309-a2377c5851e5</subsheetid>

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<stage stageid="43f92e8a-9aea-4905-a868-f8fae4365ccd" name="Ping Exception" type="Data">

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<alwaysinit/>

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</process>

<process name="Utility - Numeric Operations" version="6.7.0.0" narrative="Mathematical functions" type="

<appdef>

<element name="Application Root">

<type>Application</type>

<id>a7f254ce-6c9f-4c50-a9d0-03c2cd24ef07</id>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

</appdef>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="2875d2a6-0236-416e-bf04-c638bbb57806" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

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<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="97a91b4e-590f-4fb9-b450-f820d746c260" type="Normal" published="True">

<name>Get Absolute Value</name>

<view>

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<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="de3d40ad-d45c-476b-8cb3-409f48fda754" type="Normal" published="True">

<name>Calculate Rolling Average (fixed denominator)</name>

<view>

<camerax>112</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="d3813186-bbc2-4727-a08a-76df7f3419dc" type="Normal" published="True">

<name>Calculate Rolling Average (variable denominator)</name>

<view>

<camerax>255</camerax>

<cameray>-192</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="92089dfa-b677-47d9-89dd-d830e0728e56" type="Normal" published="False">

<name>Test Rolling Averages</name>

<view>

<camerax>0</camerax>

<cameray>69</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<stage stageid="954f3eee-6816-44ed-890e-338b6fb01349" name="Start" type="Start">

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<narrative>

</narrative>

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<onsuccess>da124292-a510-41de-aa90-d98a7ccc019e</onsuccess>

</stage>

<stage stageid="da124292-a510-41de-aa90-d98a7ccc019e" name="End" type="End">

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</narrative>

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</stage>

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<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

<reference>Microsoft.VisualBasic.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

<import>Microsoft.VisualBasic</import>

</imports>

<language>visualbasic</language>

<globalcode>


</globalcode>

<code>


</code>
```



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</stage>

<stage stageid="1c87d27f-f30b-4069-8899-ecf4f5fcbb0a" name="Clean Up" type="SubSheetInfo">

<subsheetsid>2875d2a6-0236-416e-bf04-c638bbb57806</subsheetsid>

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</stage>

<stage stageid="081451dd-39f7-48e2-b47c-21aa18a50082" name="Start" type="Start">

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</narrative>

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<onsuccess>37195e20-c2cc-4dd1-8c80-e0bb35636321</onsuccess>

</stage>

<stage stageid="37195e20-c2cc-4dd1-8c80-e0bb35636321" name="End" type="End">

<subsheetsid>2875d2a6-0236-416e-bf04-c638bbb57806</subsheetsid>

<loginhibit/>

<narrative>
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</narrative>

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</stage>

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<subsheetid>2875d2a6-0236-416e-bf04-c638bbb57806</subsheetid>

<narrative>Clean Up Page
```

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

```
<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="0820845d-7215-43e2-ae11-3cc74304cc58" name="new" type="Note">

<narrative>Initialise Page
```

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="9260f24a-514b-4e85-b4e0-cb745addf3c2" name="Get Absolute Value" type="SubSheetIn">

<subsheetsid>97a91b4e-590f-4fb9-b450-f820d746c260</subsheetsid>

<narrative>Gets the numerical value of a number without regard to its sign.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="e6b4592b-5e02-45eb-a791-84678ab35798" name="Start" type="Start">

<subsheetsid>97a91b4e-590f-4fb9-b450-f820d746c260</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<inputs>

<input type="number" name="Input" narrative="The number to get the absolute value of " stage="Input"/>

</inputs>

<onsuccess>a8066261-2778-4e3d-9cc1-600f96534599</onsuccess>

</stage>

<stage stageid="4225cec2-fba0-43f4-ba89-5773dc1199fb" name="End" type="End">

<subsheetid>97a91b4e-590f-4fb9-b450-f820d746c260</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<outputs>

<output type="number" name="Absolute Value" stage="Input"/>

</outputs>

</stage>

<stage stageid="ee6ae5e3-485c-44ee-bda3-b95fd0bd5f43" name="Input" type="Data">

<subsheetid>97a91b4e-590f-4fb9-b450-f820d746c260</subsheetid>

<narrative>

</narrative>

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<displayy>-105</displayy>

<displaywidth>60</displaywidth>
```

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<datatype>number</datatype>

<initialvalue>0</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="a8066261-2778-4e3d-9cc1-600f96534599" name="Negative?" type="Decision">

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<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-45</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<decision expression="[Input] &lt; 0"/>

<ontrue>443ea222-04fc-476a-905c-c4f0d8e32a3f</ontrue>

<onfalse>4225cec2-fba0-43f4-ba89-5773dc1199fb</onfalse>

</stage>

<stage stageid="443ea222-04fc-476a-905c-c4f0d8e32a3f" name="Negate" type="Calculation">

<subsheetsid>97a91b4e-590f-4fb9-b450-f820d746c260</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<display>-45</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<onsuccess>273e7090-384a-4f21-8770-8fd6f06bcf68</onsuccess>

<calculation expression="[Input] * -1" stage="Input"/>

</stage>

<stage stageid="273e7090-384a-4f21-8770-8fd6f06bcf68" name="anchor1" type="Anchor">

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<loginhibit/>

<narrative>

</narrative>

<displayx>135</displayx>

<display>90</display>

<displaywidth>10</displaywidth>

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<onsuccess>4225cec2-fba0-43f4-ba89-5773dc1199fb</onsuccess>

</stage>

<stage stageid="f3ffdd20-3c64-40ff-be03-a65ab5edd2a0" name="Calculate Rolling Average (fixed denomi

<subsheetsid>de3d40ad-d45c-476b-8cb3-409f48fda754</subsheetsid>

<narrative>Finds the rolling average of a set of numbers given a fixed denominator.</narrative>

<displayx>-195</displayx>

<display>-105</display>

<displaywidth>150</displaywidth>

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```
</stage>

<stage stageid="b64329c2-4895-4408-889c-5c11491d3d29" name="Calculate Rolling Average (variable d

<subsheetid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetid>

<narrative>Finds the rolling average of a set of numbers given a variable set denominators.</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

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</stage>

<stage stageid="5b22715c-629e-4a2a-a008-da75c5629116" name="Start" type="Start">

<subsheetid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

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<inputs>

<input type="collection" name="Numerator Values" narrative="The series of numbers to find the moving av

<input type="collection" name="Denominator Values" narrative="The series of numbers to use as denimina

<input type="flag" name="Break at Zero Points" narrative="Set to true if you wish to break at zero points" s

<input type="number" name="Rolling Period Length" narrative="The length of the rolling period" stage="Ro

</inputs>

<onsuccess>c51a3b69-434e-49bd-aaea-93ccf9175656</onsuccess>
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</stage>

<stage stageid="ee0a01bc-752f-4e02-8989-1afee7164126" name="End" type="End">

<subsHEETid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>615</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="collection" name="Rolling Average Values" stage="Rolling Average Values"/>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Error Message" stage="Error Message"/>

</outputs>

</stage>

<stage stageid="1eb6ffaf-3152-45f0-8337-67c995dfca11" name="Numerator Values" type="Collection">

<subsHEETid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsHEETid>

<narrative>

</narrative>

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<datatype>collection</datatype>


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<private/>

<alwaysinit/>

</stage>

<stage stageid="ede06c50-0c0c-4f56-b8f1-956c680ddc7d" name="Denominator Values" type="Collection">

<subsheetid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetid>

<narrative>

</narrative>

<displayx>195</displayx>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="464be8b5-6852-4ef7-8b11-231f833ad4db" name="Validate" type="ChoiceStart">

<subsheetid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<groupid>d45c276b-e502-4042-8914-05d55c58e8ba</groupid>
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<choices>

<choice expression="[Numerator Row Count] = 0">

<name>No Numerator Rows</name>

<distance>45</distance>

<ontrue>c6cf5d20-32a0-4947-b4fc-4ac728eb495a</ontrue>

</choice>

<choice expression="[Numerator Row Count] > 1">

<name>More than one Numerator Row</name>

<distance>90</distance>

<ontrue>470fc45a-d040-4792-8860-0220a95f7053</ontrue>

</choice>

<choice expression="[Denominator Row Count] = 0">

<name>No Denominator Rows</name>

<distance>135</distance>

<ontrue>08ff5c35-f0c6-4497-9894-ca17fae3939e</ontrue>

</choice>

<choice expression="[Denominator Row Count] > 1">

<name>More than one Denominator Row</name>

<distance>180</distance>

<ontrue>6d5f06cb-a0ce-4dd8-991c-0d1f3c3589b6</ontrue>

</choice>

<choice expression="[Rolling Period Length] < 1">

<name>Invalid Rolling Period Length</name>

<distance>225</distance>

<ontrue>73d86166-982d-4051-bfd5-ec8bbbc5601b</ontrue>

</choice>

</choices>

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</stage>

<stage stageid="5681a0ac-3314-49d4-acda-e93198c0896a" name="Valid" type="ChoiceEnd">

<subsheetsid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetsid>

<loginhibit/>

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</narrative>

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<displayheight>30</displayheight>

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<onsuccess>fe626c6a-6f0a-4faf-bcb1-f8fe0dfaf140</onsuccess>

<groupid>d45c276b-e502-4042-8914-05d55c58e8ba</groupid>

</stage>

<stage stageid="c51a3b69-434e-49bd-aaea-93ccf9175656" name="Count Numerator Rows" type="Action">

<subsheetsid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Collection Name" expr="&quot;Numerator Values&quot;"/>

</inputs>
```

```
<outputs>

<output type="number" name="Count" stage="Numerator Row Count"/>

</outputs>

<onsuccess>2c1f2db9-8089-48c1-a836-318bc03cad7c</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Count Rows"/>

</stage>

<stage stageid="f0fbf567-bff1-4043-a546-6088d62da8d0" name="Numerator Row Count" type="Data">

<subsheetsid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetsid>

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</narrative>

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<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2c1f2db9-8089-48c1-a836-318bc03cad7c" name="Count Denominator Rows" type="Action">

<subsheetsid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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```

```
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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Collection Name" expr="&quot;Denominator Values&quot;"/>

</inputs>

<outputs>

<output type="number" name="Count" stage="Denominator Row Count"/>

</outputs>

<onsuccess>6955ab72-2076-4cb9-8ace-6609890a69a4</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Count Rows"/>

</stage>

<stage stageid="6955ab72-2076-4cb9-8ace-6609890a69a4" name="Count Numerator Columns" type="Ac

<subsheetsid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Collection Name" expr="&quot;Numerator Values&quot;"/>

</inputs>

<outputs>

<output type="number" name="Count" stage="Numerator Column Count"/>
```

</outputs>

<onsuccess>aefdb9e9-ae93-411f-8f7c-9b727c77381e</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Count Columns"/>

</stage>

<stage stageid="4383f084-71ea-4c47-8aad-e3d496dcd480" name="Denominator Row Count" type="Data"

<subsheetsid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetsid>

<narrative>

</narrative>

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<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="aefdb9e9-ae93-411f-8f7c-9b727c77381e" name="Count Denominator Columns" type="Ac

<subsheetsid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>105</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

```
<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Collection Name" expr="&quot;Denominator Values&quot;"/>

</inputs>

<outputs>

<output type="number" name="Count" stage="Denominator Column Count"/>

</outputs>

<onsuccess>464be8b5-6852-4ef7-8b11-231f833ad4db</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Count Columns"/>

</stage>

<stage stageid="b27838d3-3c3c-491d-96ab-a5673fc4b7f2" name="Denominator Column Count" type="Data Collection">

<subsheetid>d3813186-bbc2-4727-a08a-76df7f3419dc</subsheetid>

<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

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<input type="flag" name="Break at Zero Points" expr="[Break at Zero Points]"/>

<input type="number" name="Rolling Period Length" expr="[Rolling Period Length]"/>

</inputs>

<outputs>

<output type="collection" name="Rolling Average Values" stage="Rolling Average Values"/>

</outputs>

<onsuccess>e1b6ddb7-512d-48a4-bb15-23bcbf8b139c</onsuccess>

<code>Rolling_Average_Values = New DataTable

For Each Col As DataColumn in Numerator_Values.Columns

Rolling_Average_Values.Columns.Add(Col.ColumnName, Col.DataType)

Next

Dim Values(Numerator_Values.Columns.Count - 1) As Object

Dim LastBreakPoint As Integer = -1

For I as Integer = 0 to Numerator_Values.Columns.Count - 1

If Break_At_Zero_Points AndAlso Numerator_Values.Rows(0)(I) = 0 AndAlso Denominator_Values.Rows(0)(I) = 0 Then

LastBreakpoint = I

Values(I) = 0

Else

Dim ThisNumeratorTotal As Decimal = 0d

Dim ThisDenominatorTotal As Decimal = 0d

For J as Integer = Math.Max(LastBreakPoint + 1, I - Rolling_Period_Length + 1) To I

Dim Numerator As Decimal = Numerator_Values.Rows(0)(J)

Dim Denominator As Decimal = Denominator_Values.Rows(0)(J)

If Denominator = 0 Then

If Numerator <> 0 Then

Throw New ApplicationException("Rolling average cannot be computed - denominator is zero for a non-zero numerator")

Else

If Break_At_Zero_Points Then

'Both zero, should never get here - breakpoints are dealt with above

Throw New ApplicationException("Unexpected breakpoint")

End If

End If

End If

ThisNumeratorTotal += Numerator

ThisDenominatorTotal += Denominator

Values(l) = ThisNumeratorTotal / ThisDenominatorTotal

Next

End If

Next

Rolling_Average_Values.Rows.Add(Values)</code>

</stage>

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<calculation expression="&quot;Rolling period length must be at least 1 - the value supplied was &am

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<input type="flag" name="Break at Zero Points" narrative="Set to true if you wish to break at zero points" s

<input type="number" name="Denominator Value" narrative="The value of the denominator" stage="Denom

<input type="number" name="Rolling Period Length" narrative="The length of the rolling period" stage="Ro

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<input type="number" name="Denominator Value" expr="[Denominator Value]"/>

<input type="collection" name="Numerator Values" expr="[Numerator Values]"/>

</inputs>

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<output type="collection" name="Denominator Values" stage="Denominator Values"/>

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<onsuccess>507e4969-eea9-43a2-804b-8bf5be4a61a3</onsuccess>

<code>Denominator_Values = New DataTable

For Each Col As DataColumn In Numerator_Values.Columns

Denominator_Values.Columns.Add(Col.ColumnName, Col.DataType)

Next

Dim Values(Numerator_Values.Columns.Count - 1) As Object

For I As Integer = 0 to Values.Length - 1

Values(I) = Denominator_Value

Next

Denominator_Values.Rows.Add(Values)</code>

</stage>

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<outputs>

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<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Error Message" narrative="An error message if unsuccessful" stage="Error Mes

</outputs>

</stage>

<stage stageid="00eb3893-db7d-4d3f-b157-0394bdb87089" name="Success" type="Data">

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<displaywidth>120</displaywidth>

<displayheight>60</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>
```

```
<collectioninfo>

<field name="Field1" type="number"/>

<field name="Field2" type="number"/>

<field name="Field3" type="number"/>

<field name="Field4" type="number"/>

<field name="Field5" type="number"/>

<field name="Field6" type="number"/>

</collectioninfo>

<initialvalue>

<row>

<field name="Field1" type="number" value="6"/>

<field name="Field2" type="number" value="5"/>

<field name="Field3" type="number" value="4"/>

<field name="Field4" type="number" value="0"/>

<field name="Field5" type="number" value="2"/>

<field name="Field6" type="number" value="1"/>

</row>

</initialvalue>

</stage>

<stage stageid="71dc7a66-0c37-40fd-b429-60977d11f142" name="Calculate Rolling Average (variable de

<subsheetid>92089dfa-b677-47d9-89dd-d830e0728e56</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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<displaywidth>120</displaywidth>
```

```
<displayheight>30</displayheight>

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<inputs>

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<input type="collection" name="Denominator Values" expr="[Coll2]"/>

<input type="flag" name="Break at Zero Points" expr="True"/>

<input type="number" name="Rolling Period Length" expr="2"/>

</inputs>

<outputs>

<output type="collection" name="Rolling Average Values" stage="Rolling Average Values"/>

<output type="flag" name="Success"/>

<output type="text" name="Error Message" stage=""/>

</outputs>

<onsuccess>6a98671a-73dd-46f1-9df0-16a9ae0e160b</onsuccess>

<processid>d3813186-bbc2-4727-a08a-76df7f3419dc</processid>

</stage>

<stage stageid="1755ffff-dcfe-4188-a6ed-01e4a5a2a8ca" name="Rolling Average Values" type="Collection">

<subsheets>

<subsheetid>92089dfa-b677-47d9-89dd-d830e0728e56</subsheetid>

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</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<datatype>collection</datatype>

<private/>
```

```
<alwaysinit/>

</stage>

<stage stageid="6a98671a-73dd-46f1-9df0-16a9ae0e160b" name="Calculate Rolling Average (variable de

<subsheetid>92089dfa-b677-47d9-89dd-d830e0728e56</subsheetid>

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<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Numerator Values" expr="[Coll1]"/>

<input type="flag" name="Break at Zero Points" expr="True"/>

<input type="number" name="Rolling Period Length" expr="2"/>

<input type="number" name="Denominator Value" expr="5"/>

</inputs>

<outputs>

<output type="collection" name="Rolling Average Values" stage="Rolling Average Values 2"/>

<output type="flag" name="Success"/>

<output type="text" name="Error Message" stage=""/>

</outputs>

<onsuccess>19417cd9-95e3-4bf4-86f2-c7d56836e454</onsuccess>

<processid>de3d40ad-d45c-476b-8cb3-409f48fda754</processid>

</stage>

<stage stageid="8b1cb360-9652-488d-abfb-d69089a24ce1" name="Rolling Average Values 2" type="Colle
```

<subsheetid>92089dfa-b677-47d9-89dd-d830e0728e56</subsheetid>

<narrative>

</narrative>

<displayx>120</displayx>

<displayy>15</displayy>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

</process>

<process name="Utility - Strings" version="6.7.0.18133" bpversion="6.7.0.0" narrative="Utility functions for

<appdef>

<element name="Application Root">

<id>b30f5d67-5c3c-49c9-8f9b-66d573097498</id>

<type>Application</type>

<basetype>Application</basetype>

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<diagnose>False</diagnose>

</element>

</appdef>

<view>

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<cameray>-35</cameray>

<zoom version="2">1.25</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="9a74af4c-280a-4e30-bdbb-21295b6256ca" type="CleanUp" published="True">

<name>Clean Up</name>

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<cameray>42</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="65117a41-f7ff-4f3f-abd1-7a3cbe18cfda" type="Normal" published="True">

<name>Remove Non-word Characters</name>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="d8fea7a8-24d9-41c8-9397-a3839e6ffdc1" type="Normal" published="True">

<name>Generate New GUID</name>

<view>

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<cameray>-84</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="e70e8f13-02df-4b14-bb74-6fd5c4c95928" type="Normal" published="True">

<name>Delete Characters</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="6a710d42-8f41-45d0-9e74-1eddf74c0e75" type="Normal" published="True">

<name>Split Lines by Length</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="e6bab90c-ddfd-48c0-af38-804fe4f770ed" type="Normal" published="True">

<name>Split Lines</name>

<view>

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<cameray>-6</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="a5871062-5ad2-4950-afbc-cb5b1b7a7f0b" type="Normal" published="True">

<name>Split Text</name>

<view>

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<cameray>-56</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="a2c09338-7850-4daf-a545-8972d333b826" type="Normal" published="True">

<name>Join Text</name>

<view>

<camerax>65</camerax>

<cameray>75</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="a854bb6a-4399-4e51-8fc3-64f9e1d4f896" type="Normal" published="True">

<name>Join Lines</name>

<view>

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<cameray>42</cameray>

<zoom version="2">1.25</zoom>

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<subsheet subsheetid="fcddf4bf-83af-4431-88db-cc2c88390cec" type="Normal" published="True">

<name>Get Newline Character</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="06780f7c-9622-4d84-9db3-bb56a2ff9f36" type="Normal" published="True">

<name>Extract Regex Values</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="a6b6398e-c21a-4c4e-9742-65ccad8370d9" type="Normal" published="True">

<name>Test Regex Match</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="5110b353-010b-4874-97bd-8b7621c24384" type="Normal" published="True">

<name>Format Number</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<name>PadLeft</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<name>Get XML Elements</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="e8af11f7-dfd4-4c86-9935-e83828b9e711" type="Normal" published="True">

<name>Get XML Attribute</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="f9add4d4-31de-4c0f-a109-0b51fa576a23" type="Normal" published="True">

<name>Get Collection as CSV</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<name>Get CSV As Collection</name>

<view>

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<cameray>-87</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="040cc29a-27ac-402c-8a66-328554dd4bc0" type="Normal" published="True">

<name>Escape Sendkeys String</name>

<view>

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<cameray>5</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="527ca986-a03f-4231-880e-5b1c244b035e" type="Normal" published="True">

<name>Compare Font Text</name>

<view>

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<cameray>139</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="0244396a-1d3d-4892-b6cb-461468f4c7e1" type="Normal" published="True">

<name>InStr</name>

<view>

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<cameray>-2</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="9ab28c01-86eb-458d-b8d9-74f98926d266" type="Normal" published="True">

<name>InStrRev</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<loginhibit/>

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</stage>

<stage stageid="807e7d33-91e2-4241-a85e-ea0718fc487d" name="End" type="End">

<loginhibit/>

<display x="15" y="90"/>

</stage>

<stage stageid="1a8c9ebd-54e1-442f-a6c7-e87df3b59232" name="Stage1" type="ProcessInfo">

<display x="-195" y="-105" w="150" h="90"/>

<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

<import>System.IO</import>

<import>System.XML</import>

<import>System.Diagnostics</import>

<import>Microsoft.VisualBasic</import>

<import>System.Data</import>

<import>system.text.regularexpressions</import>

<import>System.Text</import>

<import>System.Collections.Generic</import>

<import>Microsoft.VisualBasic.FileIO</import>

</imports>

<language>visualbasic</language>

<globalcode>

</globalcode>

<code>Public Function GetDataTable(ByVal ColumnNamesCSV As String, ByVal ColumnTypesCSV As S

Dim objTable As DataTable

Dim objColumn As DataColumn

Dim aColumnNames As String() = ColumnNamesCSV.Split(",")

Dim aColumnTypes As String() = ColumnTypesCSV.Split(",")

Try

objTable = New DataTable

For i As Integer = 0 To aColumnNames.Length - 1

objColumn = New DataColumn

objColumn.DataType = System.Type.GetType(aColumnTypes(i).Trim)

objColumn.ColumnName = aColumnNames(i).Trim

objTable.Columns.Add(objColumn)

Next

Catch e As Exception

objTable = nothing

End Try

Return objTable

End Function

Private Function SplitStringInto(_

ByVal fldName As String, _

```

ByVal txt As String, _
ByVal ParamArray splitters() As String) As DataTable

Dim dt As New DataTable()

dt.Columns.Add(fldName, GetType(String))

For Each s As String In txt.Split(splitters, StringSplitOptions.None)
    dt.Rows.Add(New Object() {s})
Next

Return dt

End Function

Public Shared Function ParseCsvToList(ByVal csv As String) As List(Of String())

Dim result = New List(Of String())()

Using sr As New StringReader(csv)

Using lineParser As New TextFieldParser(sr)

lineParser.TextFieldType = FieldType.Delimited

lineParser.SetDelimiters(",")

While Not lineParser.EndOfData

Dim fields As String() = lineParser.ReadFields()

result.Add(fields)

End While

End Using

End Using

```

Return result

End Function

```
''' -----
```

```
''' <summary>
```

```
''' Serialises a datatable to the supplied stream.
```

```
''' </summary>
```

```
''' <param name="Writer">The stream writr to which the datatable should
```

```
''' be serialised. Eg this may correspond to a file stream.</param>
```

```
''' <param name="Table">The datatable to be serialised.</param>
```

```
''' <param name="IncludeHeaderRow">When true, the column headers will
```

```
''' be written out on the first row.</param>
```

```
''' -----
```

```
Public Shared Sub WriteDataTable(ByVal Writer As StringBuilder, ByVal Table As DataTable, ByVal IncludeHeaderRow As Boolean)
```

```
    If IncludeHeaderRow Then
```

```
        For i As Integer = 0 To Table.Columns.Count - 1
```

```
            WriteItem(Writer, Table.Columns(i).ColumnName)
```

```
            If i < Table.Columns.Count - 1 Then
```

```
                Writer.Append(",")
```

```
            Else
```

```
                Writer.Append(vbCrLf)
```

```
            End If
```

```
        Next
```

```
    End If
```

```
    For Each Row As DataRow In Table.Rows
```

```
For i As Integer = 0 To Table.Columns.Count - 1
```

```
WriteItem(Writer, Row(i).ToString)
```

```
If i < Table.Columns.Count - 1 Then
```

```
Writer.Append(",")
```

```
Else
```

```
Writer.Append(vbCrLf)
```

```
End If
```

```
Next
```

```
Next
```

```
End Sub
```

```
''' -----
```

```
''' <summary>
```

```
''' Writes a csv data cell, escaping quotes and new lines where necessary.
```

```
''' </summary>
```

```
''' <param name="Writer">The writer to which the item should be written.</param>
```

```
''' <param name="Value">The value to be written.</param>
```

```
''' -----
```

```
Private Shared Sub WriteItem(ByVal Writer As StringBuilder, ByVal Value As String)
```

```
If Value.IndexOfAny(("\"", " && vbCrLf).ToCharArray) > -1 Then
```

```
Writer.Append("""" && Value.Replace("""", """"""") && """)
```

```
Else
```

```
Writer.Append(Value)
```

```
End If
```

```
End Sub
```

'Splits text into lines of approximately equal length, looking for
'gaps between words as splitting points in order to avoid ugly
'line splitting in the middle of words. Useful for mainframe memos
'where a long message needs to be broken into lines of up to 80
'characters.

```
Private Shared Function SplitTextByLengthEngine(TexttoSplit As String, MaxLineLength As Integer) As List(Of String)  
Dim RetVal as New List(Of String)  
MaxLineLength = Math.Min(MaxLineLength, TexttoSplit.Length)
```

'We look for the last space within (MaxLineLength + 1) and then work backwards
'(always by at least one) to find the last non-space character. We can then
'chop at this point, assuming such exists. Otherwise we just chop at the
'requested line length accepting we will be splitting a word.

```
Dim LastIndex as integer = TexttoSplit.Substring(0, Math.Min(MaxLineLength + 1, TextToSplit.Length)).LastIndexOf(" ")
```

```
If TextToSplit.Length <= MaxLineLength OrElse LastIndex = -1 Then
```

```
RetVal.Add(TexttoSplit.Substring(0, MaxLineLength))
```

```
Dim RemainingText As String = TexttoSplit.SubString(MaxLineLength, TextToSplit.Length - MaxLineLength)
```

```
If RemainingText.Length > 0 Then RetVal.AddRange(SplitTextByLengthEngine(RemainingText, MaxLineLength))
```

```
Else
```

'Track backwards to find previous non-space character

```
Dim Index As Integer = LastIndex - 1
```

```
While Index >= 0 AndAlso TextToSplit.SubString(Index, 1) = " "
```

```
Index -= 1
```

End While

If Index >= 0 Then

RetVal.Add(TextToSplit.SubString(0, Index + 1))

Dim RemainingText As String = TextToSplit.SubString(Index + 1, TextToSplit.Length - (Index + 1)).Trim()

If RemainingText.Length > 0 Then RetVal.AddRange(SplitTextByLengthEngine(RemainingText, MaxLineLength))

Else

'Must all be spaces. We assume this are to be ignored

End If

End If

Return RetVal

End Function

</code>

</stage>

<stage stageid="0bf7814a-647b-4bcb-b6a6-3d24dfd5b736" name="Clean Up" type="SubSheetInfo">

<subsheetsid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetsid>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="b6df3b6c-090d-4126-a16c-8caa889b0646" name="Generate New GUID" type="SubSheetInfo">

<subsheetsid>d8fea7a8-24d9-41c8-9397-a3839e6ffdc1</subsheetsid>

<narrative>Generates a new globally unique identifier as text.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="0c56e2f8-68ce-48a3-97ad-81e1f076e9ce" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<display x="-180" y="60" w="180" h="230"/>

</stage>

<stage stageid="be35a29d-2b71-42e1-9ca7-4534046d5dfc" name="Start" type="Start">

<subsheetid>d8fea7a8-24d9-41c8-9397-a3839e6ffdc1</subsheetid>

<loginhibit/>

<display x="15" y="-105"/>

<onsuccess>bd80e756-d12c-4dc7-9d64-bbde733f60b7</onsuccess>

</stage>

<stage stageid="bd80e756-d12c-4dc7-9d64-bbde733f60b7" name="Get GUID" type="Code">

<subsheetid>d8fea7a8-24d9-41c8-9397-a3839e6ffdc1</subsheetid>

<loginhibit/>

<display x="15" y="-45"/>

<outputs>

<output type="text" name="id" stage="GUID"/>

</outputs>

<onsuccess>4930704e-00c1-456a-8aad-02220fd81c99</onsuccess>

<code>dim g as new Guid

```
id = guid.newguid.toString</code>

</stage>

<stage stageid="695dad7d-b634-454c-9171-baf489698067" name="GUID" type="Data">

<subsheetid>d8fea7a8-24d9-41c8-9397-a3839e6ffdc1</subsheetid>

<display x="-60" y="-45"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="4930704e-00c1-456a-8aad-02220fd81c99" name="End1" type="End">

<subsheetid>d8fea7a8-24d9-41c8-9397-a3839e6ffdc1</subsheetid>

<loginhibit/>

<display x="15" y="15"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="GUID" narrative="The new guid" stage="GUID"/>

</outputs>

</stage>

<stage stageid="2271a79e-27e5-4434-b5be-146e02946317" name="new" type="Note">

<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>

<narrative>Clean Up Page
```

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<display x="-180" y="60" w="180" h="230"/>

</stage>

<stage stageid="36451c72-b274-4817-a153-beb1e8a6e76a" name="Start" type="Start">

<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>

<loginhibit/>

<display x="30" y="-120"/>

<onsuccess>9a8c4505-8606-4a0c-b118-09a6b9932b3b</onsuccess>

</stage>

<stage stageid="9a8c4505-8606-4a0c-b118-09a6b9932b3b" name="End" type="End">

<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>

<loginhibit/>

<display x="30" y="90"/>

</stage>

<stage stageid="a130f3e8-fad5-413c-a068-75ac20600244" name="Remove Non-word Characters" type="

<subsheetid>65117a41-f7ff-4f3f-abd1-7a3cbe18cfda</subsheetid>

<narrative>Trims non word characters from the begining and end of the text. Non word characters are any

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="dd85470c-e10b-4f0b-b729-c006136517eb" name="Start" type="Start">

<subsheetid>65117a41-f7ff-4f3f-abd1-7a3cbe18cfda</subsheetid>

<loginhibit/>

```
<display x="15" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Text" narrative="The text to remove the non word characters from" stage="Text"/>

</inputs>

<onsuccess>a2426b0a-eab8-4571-a6d9-fa89c49559be</onsuccess>

</stage>

<stage stageid="3eae8050-c325-49f6-9e3f-ee12400ca5d4" name="End" type="End">

<subsheetid>65117a41-f7ff-4f3f-abd1-7a3cbe18cfda</subsheetid>

<loginhibit/>

<display x="15" y="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Trimmed Text" narrative="The text with the non word characters removed" stage="Trimmed Text"/>

</outputs>

</stage>

<stage stageid="a2426b0a-eab8-4571-a6d9-fa89c49559be" name="Trim" type="Code">

<subsheetid>65117a41-f7ff-4f3f-abd1-7a3cbe18cfda</subsheetid>

<loginhibit/>

<display x="15" y="-15"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Text" expr="[Text]"/>

</inputs>

<outputs>

<output type="text" name="Trimmed Text" stage="Trimmed Text"/>

</outputs>
```

<onsuccess>3eae8050-c325-49f6-9e3f-ee12400ca5d4</onsuccess>

<code>

dim r as new regex("^\\W*|\\W*\$")

Trimmed_Text = r.replace(text, "")

</code>

</stage>

<stage stageid="1f3570bd-8411-4e92-8fd3-1dd418411570" name="Text" type="Data">

<subsheetsid>65117a41-f7ff-4f3f-abd1-7a3cbe18cfda</subsheetsid>

<display x="90" y="-105"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve"> qwerqwer </initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="0967c44a-1a53-49a7-8bb4-e1f6733a41b0" name="Trimmed Text" type="Data">

<subsheetsid>65117a41-f7ff-4f3f-abd1-7a3cbe18cfda</subsheetsid>

<display x="90" y="-15"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="00a08897-25f2-48e0-aa88-e40bb27b94e7" name="Split Lines" type="SubSheetInfo">

<subsheetsid>e6bab90c-ddfd-48c0-af38-804fe4f770ed</subsheetsid>

<narrative>Splits multiple line text into a collection text values with a single row per line.</narrative>

```
<display x="-195" y="-105" w="150" h="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="5f6c9d2f-247d-42a7-bc18-8b4283b21c80" name="Start" type="Start">

<subsheetid>e6bab90c-ddfd-48c0-af38-804fe4f770ed</subsheetid>

<loginhibit/>

<display x="15" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Text to Split" narrative="The text to split" stage="Text to Split"/>

</inputs>

<onsuccess>ee14a8f3-9fd3-4342-abcf-3cbe1d57431a</onsuccess>

</stage>

<stage stageid="370a75cf-d54f-438d-b7b1-0f931038d7a2" name="End" type="End">

<subsheetid>e6bab90c-ddfd-48c0-af38-804fe4f770ed</subsheetid>

<loginhibit/>

<display x="15" y="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="collection" name="Split Values" narrative="The resulting collection containing the split values"/>

</outputs>

</stage>

<stage stageid="b655e5fa-2cb9-487a-b4e8-8faf44531e8d" name="Text to Split" type="Data">

<subsheetid>e6bab90c-ddfd-48c0-af38-804fe4f770ed</subsheetid>

<display x="90" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>
```

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="ee14a8f3-9fd3-4342-abcf-3cbe1d57431a" name="Split" type="Code">

<subsheetsid>e6bab90c-ddfd-48c0-af38-804fe4f770ed</subsheetsid>

<loginhibit/>

<display x="15" y="0"/>

<inputs>

<input type="text" name="Text to Split" expr="[Text to Split]"/>

</inputs>

<outputs>

<output type="collection" name="Split Values" stage="Split Values"/>

</outputs>

<onsuccess>370a75cf-d54f-438d-b7b1-0f931038d7a2</onsuccess>

<code>Split_Values = SplitStringInto("Value", _

Text_to_Split, vbCrLf, vbLf, vbCr)</code>

</stage>

<stage stageid="5c6c7749-e4c1-45ef-9fb7-a7b7ca77214d" name="Split Values" type="Collection">

<subsheetsid>e6bab90c-ddfd-48c0-af38-804fe4f770ed</subsheetsid>

<display x="120" y="90" w="90" h="60"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

<collectioninfo>

<field name="Value" type="text"/>

</collectioninfo>

</stage>

<stage stageid="99d3d4f8-598b-44be-9744-5142537aff99" name="Split Text" type="SubSheetInfo">

<subsheetsid>a5871062-5ad2-4950-afbc-cb5b1b7a7f0b</subsheetsid>

<narrative>Splits text with a given delimiter into a collection of text values.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="97069dc2-f2a1-4f61-a3f6-e26e88d1da58" name="Start" type="Start">

<subsheetsid>a5871062-5ad2-4950-afbc-cb5b1b7a7f0b</subsheetsid>

<loginhibit/>

<display x="120" y="-105"/>

<inputs>

<input type="text" name="Text to Split" narrative="The text to split" stage="Text to Split"/>

<input type="text" name="Split Char" narrative="The split delimiter" stage="Split Char"/>

<input type="text" name="Collection Field Name" narrative="The name of the field for the resulting collection"/>

</inputs>

<onsuccess>d1694d87-2fff-467b-9a07-5f5dd570bd41</onsuccess>

</stage>

<stage stageid="2972f0ee-292a-4bb0-bed5-c9a19f8945f6" name="End" type="End">

<subsheetsid>a5871062-5ad2-4950-afbc-cb5b1b7a7f0b</subsheetsid>

<loginhibit/>

<display x="120" y="90"/>

<outputs>

```
<output type="collection" name="Split Values" narrative="The resulting collection containing the split values" />
</outputs>

</stage>

<stage stageid="33bff0c5-22b9-4ab3-ac0a-c352221a4f79" name="Text to Split" type="Data">

<subsheetid>a5871062-5ad2-4950-afbc-cb5b1b7a7f0b</subsheetid>

<display x="195" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d1694d87-2fff-467b-9a07-5f5dd570bd41" name="Split Text" type="Code">

<subsheetid>a5871062-5ad2-4950-afbc-cb5b1b7a7f0b</subsheetid>

<loginhibit/>

<display x="120" y="0"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Text to Split" expr="[Text to Split]"/>

<input type="text" name="Split Char" expr="[Split Char]"/>

<input type="text" name="Collection Field Name" expr="[Collection Field Name]"/>

</inputs>

<outputs>

<output type="collection" name="Split Values" stage="Split Values"/>

</outputs>

<onsuccess>2972f0ee-292a-4bb0-bed5-c9a19f8945f6</onsuccess>

<code>Split_Values = SplitStringInto( _
```

Collection_Field_Name, _

Text_to_Split, Split_Char)</code>

</stage>

<stage stageid="17ffca42-be51-4343-90e3-035d29366b7f" name="Split Values" type="Collection">

<subsheetsid>a5871062-5ad2-4950-afbc-cb5b1b7a7f0b</subsheetsid>

<display x="225" y="90" w="90" h="60"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="05ba6aed-e91b-4383-9001-69b78a2e474d" name="Split Char" type="Data">

<subsheetsid>a5871062-5ad2-4950-afbc-cb5b1b7a7f0b</subsheetsid>

<display x="255" y="-105"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="20afce2f-59e1-4fc1-896c-ab71d2f871b2" name="Collection Field Name" type="Data">

<subsheetsid>a5871062-5ad2-4950-afbc-cb5b1b7a7f0b</subsheetsid>

<display x="45" y="-105"/>

<datatype>text</datatype>

<initialvalue/>

<private/>


```
<alwaysinit/>

</stage>

<stage stageid="786d2d47-37c8-4324-8e43-8fc75f0eca95" name="Join Text" type="SubSheetInfo">

<subsheetsid>a2c09338-7850-4daf-a545-8972d333b826</subsheetsid>

<narrative>Joins values from a collection into a single line of text using a given delimiter between values.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="ccd8aec8-19c3-4d48-a184-a8895ed1ebbf" name="Start" type="Start">

<subsheetsid>a2c09338-7850-4daf-a545-8972d333b826</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative=""/>

</preconditions>

<display x="15" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Values" narrative="The text values collection to join" stage="Values"/>

<input type="text" name="Join Character" narrative="The delimiter between text values" stage="Join Character"/>

<input type="flag" name="Trim Values" narrative="Set true to apply trimming to the values" stage="Trim Values"/>

</inputs>

<onsuccess>b05ea94b-f0d1-4047-b854-04877801ef0b</onsuccess>

</stage>

<stage stageid="7dbff5b3-7cd4-406a-9650-265fb88988ef" name="End" type="End">

<subsheetsid>a2c09338-7850-4daf-a545-8972d333b826</subsheetsid>

<loginhibit/>

<display x="15" y="285"/>
```

```
<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Joined Text" narrative="The resulting joined text" stage="Joined Text"/>

</outputs>

</stage>

<stage stageid="13059fce-ee5a-4fbc-a76c-efc5db5d1240" name="Values" type="Collection">

<subsheetsid>a2c09338-7850-4daf-a545-8972d333b826</subsheetsid>

<display x="90" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

<collectioninfo>

<field name="Item Value" type="text"/>

</collectioninfo>

</stage>

<stage stageid="b0cf2931-5486-4779-b457-e8af03062df8" name="Join Character" type="Data">

<subsheetsid>a2c09338-7850-4daf-a545-8972d333b826</subsheetsid>

<display x="150" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="019a4343-9b5c-4400-8b76-5efbf2156032" name="Join Lines" type="SubSheetInfo">

<subsheetsid>a854bb6a-4399-4e51-8fc3-64f9e1d4f896</subsheetsid>
```

```
<narrative>Joins values from a collection into multiline text.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="6f376101-4dd4-43b4-85a0-19dd1090df02" name="Start" type="Start">

<subsheetid>a854bb6a-4399-4e51-8fc3-64f9e1d4f896</subsheetid>

<loginhibit/>

<display x="15" y="-75"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Values" narrative="The text values collection to join" stage="Values"/>

<input type="flag" name="Trim Lines" narrative="Set true to apply trimming to the lines" stage="Trim Lines"/>

</inputs>

<onsuccess>816591dd-a42d-436b-9fd0-4ca095d78e29</onsuccess>

</stage>

<stage stageid="f2d9cbef-9cdb-4daa-bbb6-5d3dc0548c2e" name="Values" type="Collection">

<subsheetid>a854bb6a-4399-4e51-8fc3-64f9e1d4f896</subsheetid>

<display x="90" y="-75"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="579d0466-882d-47ce-a2c3-d4a7f25eaa8c" name="Joined Text" type="Data">

<subsheetid>a2c09338-7850-4daf-a545-8972d333b826</subsheetid>

<display x="90" y="285"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>
```

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="724a0223-71bd-48d0-bcca-f4d554fcf91b" name="End" type="End">

<subsheetsid>a854bb6a-4399-4e51-8fc3-64f9e1d4f896</subsheetsid>

<loginhibit/>

<display x="15" y="135"/>

<outputs>

<output type="text" name="Joined Text" narrative="The resulting joined text" stage="Joined Text"/>

</outputs>

</stage>

<stage stageid="8bcc24ca-f588-4c3c-b09b-fe08b425b5db" name="Joined Text" type="Data">

<subsheetsid>a854bb6a-4399-4e51-8fc3-64f9e1d4f896</subsheetsid>

<display x="90" y="135" w="90" h="30"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e3b84350-20a1-442e-bebb-0232a5b73299" name="Join Text" type="SubSheet">

<subsheetsid>a854bb6a-4399-4e51-8fc3-64f9e1d4f896</subsheetsid>

<loginhibit/>

<display x="15" y="60"/>

<inputs>

<input type="collection" name="Values" expr="[Values]"/>

<input type="text" name="Join Character" expr="[Join Character]"/>

<input type="flag" name="Trim Values" expr="[Trim Lines]"/>

</inputs>

<outputs>

<output type="text" name="Joined Text" stage="Joined Text"/>

</outputs>

<onsuccess>724a0223-71bd-48d0-bcca-f4d554fcf91b</onsuccess>

<processid>a2c09338-7850-4daf-a545-8972d333b826</processid>

</stage>

<stage stageid="816591dd-a42d-436b-9fd0-4ca095d78e29" name="Get Carriage Return" type="Code">

<subsheetsid>a854bb6a-4399-4e51-8fc3-64f9e1d4f896</subsheetsid>

<loginhibit/>

<display x="15" y="0" w="90" h="30"/>

<outputs>

<output type="text" name="Join Character" stage="Join Character"/>

</outputs>

<onsuccess>e3b84350-20a1-442e-bebb-0232a5b73299</onsuccess>

<code>Join_Character = vbCrLf</code>

</stage>

<stage stageid="9a8e3b40-f136-4397-b62b-4a69cd010c37" name="Join Character" type="Data">

<subsheetsid>a854bb6a-4399-4e51-8fc3-64f9e1d4f896</subsheetsid>

<display x="105" y="0"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="13a0e17b-9b82-4dd6-8e3a-313890d8caf3" name="For Each Value" type="LoopStart">

<subsHEETid>a2c09338-7850-4daf-a545-8972d333b826</subsHEETid>

<loginhibit/>

<display x="15" y="15" w="90" h="30"/>

<onsuccess>e4c0da52-0523-4109-b705-3fadd035597b</onsuccess>

<groupid>fffab271-8052-4aaf-9a1e-1402d77939ea</groupid>

<looptype>ForEach</looptype>

<loopdata>Values</loopdata>

</stage>

<stage stageid="98f2416b-599a-42d1-a76f-d41ea3e23572" name="Next Value" type="LoopEnd">

<subsHEETid>a2c09338-7850-4daf-a545-8972d333b826</subsHEETid>

<loginhibit/>

<display x="15" y="195" w="90" h="30"/>

<onsuccess>7dbff5b3-7cd4-406a-9650-265fb88988ef</onsuccess>

<groupid>fffab271-8052-4aaf-9a1e-1402d77939ea</groupid>

</stage>

<stage stageid="b05ea94b-f0d1-4047-b854-04877801ef0b" name="Reset Output" type="Calculation">

<subsHEETid>a2c09338-7850-4daf-a545-8972d333b826</subsHEETid>

<loginhibit/>

<display x="15" y="-45"/>

<onsuccess>13a0e17b-9b82-4dd6-8e3a-313890d8caf3</onsuccess>

<calculation expression="""" stage="Joined Text"/>

</stage>

<stage stageid="49168356-8449-4cb3-9798-0796b15b77a3" name="Append Value" type="Calculation">

<subsheetsid>a2c09338-7850-4daf-a545-8972d333b826</subsheetsid>

<loginhibit/>

<display x="15" y="150"/>

<onsuccess>98f2416b-599a-42d1-a76f-d41ea3e23572</onsuccess>

<calculation expression="[Joined Text] & [Values.Item Value] & [Join Character]" stage

</stage>

<stage stageid="54cf1a89-b26c-4916-ab45-8f1e80b9b86f" name="Trim Lines" type="Data">

<subsheetsid>a854bb6a-4399-4e51-8fc3-64f9e1d4f896</subsheetsid>

<display x="150" y="-75"/>

<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="6aa04814-e2fd-4630-b391-bfe892ddc8df" name="Trim Values" type="Data">

<subsheetsid>a2c09338-7850-4daf-a545-8972d333b826</subsheetsid>

<display x="210" y="-105"/>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e4c0da52-0523-4109-b705-3fadd035597b" name="Trim?" type="Decision">

<subsHEETid>a2c09338-7850-4daf-a545-8972d333b826</subsHEETid>

<loginhibit/>

<display x="15" y="75"/>

<decision expression="[Trim Values]"/>

<ontrue>91ef5da4-e47e-4442-98ec-d46cbd8d8692</ontrue>

<onfalse>49168356-8449-4cb3-9798-0796b15b77a3</onfalse>

</stage>

<stage stageid="91ef5da4-e47e-4442-98ec-d46cbd8d8692" name="Do Trim" type="Calculation">

<subsHEETid>a2c09338-7850-4daf-a545-8972d333b826</subsHEETid>

<loginhibit/>

<display x="105" y="75"/>

<onsuccess>10ac89cc-d24c-4622-ad92-34ebe2365083</onsuccess>

<calculation expression="Trim([Values.Item Value])" stage="Values.Item Value"/>

</stage>

<stage stageid="10ac89cc-d24c-4622-ad92-34ebe2365083" name="anchor1" type="Anchor">

<subsHEETid>a2c09338-7850-4daf-a545-8972d333b826</subsHEETid>

<loginhibit/>

<display x="105" y="150" w="10" h="10"/>

<onsuccess>49168356-8449-4cb3-9798-0796b15b77a3</onsuccess>

</stage>


```
<stage stageid="b837f601-57e9-4136-8dee-db8ca9ebf15f" name="Format Number" type="SubSheetInfo">
<subsheetsid>5110b353-010b-4874-97bd-8b7621c24384</subsheetsid>
<narrative>Formats a number into comma-delimited triplets, as appropriate. Eg 123456.789 becomes 123,
<display x="-195" y="-105" w="150" h="90"/>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
</stage>

<stage stageid="df1e573a-3e89-43a8-8e6a-61f1840b3869" name="Start" type="Start">
<subsheetsid>5110b353-010b-4874-97bd-8b7621c24384</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None"/>

</preconditions>

<postconditions>

<condition narrative="The number will have been formatted."/>

</postconditions>

<display x="15" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="number" name="Input Number" narrative="The number to format" stage="Input Number"/>

</inputs>

<onsuccess>df4ce97f-4b9c-4087-a9bf-c6e35eba156b</onsuccess>

</stage>

<stage stageid="dd89bdf-2f14-4268-98f4-7ef3747a5233" name="End" type="End">
<subsheetsid>5110b353-010b-4874-97bd-8b7621c24384</subsheetsid>

<loginhibit/>

<display x="15" y="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>
```

```
<outputs>

<output type="text" name="Formatted Currency Numbers" narrative="The resulting formatted number" stag

</outputs>

</stage>

<stage stageid="b0f25370-1f87-4edd-b03a-0a3ac16537fb" name="Input Number" type="Data">

<subsheetid>5110b353-010b-4874-97bd-8b7621c24384</subsheetid>

<display x="90" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue>987654123456.789</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="df4ce97f-4b9c-4087-a9bf-c6e35eba156b" name="Format" type="Code">

<subsheetid>5110b353-010b-4874-97bd-8b7621c24384</subsheetid>

<loginhibit/>

<display x="15" y="-30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="number" name="Input" expr="[Input Number]"/>

</inputs>

<outputs>

<output type="text" name="Output" stage="Formatted Currency Value"/>

</outputs>

<onsuccess>dd89bdff-2f14-4268-98f4-7ef3747a5233</onsuccess>

<code>Output = Input.ToString("N")</code>

</stage>
```

```
<stage stageid="a6d6d631-89c5-4460-9771-6a15a0e1d7d5" name="Formatted Currency Value" type="Data" />
<subsheetid>5110b353-010b-4874-97bd-8b7621c24384</subsheetid>
<display x="90" y="90"/>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<datatype>text</datatype>
<initialvalue/>
<private/>
<alwaysinit/>
</stage>
<stage stageid="b3013d63-9017-4dd9-bcf6-5e0d09ab372f" name="PadLeft" type="SubSheetInfo">
<subsheetid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetid>
<narrative>Ensures that a string (usually a number) is of fixed width, by padding with a special character on the left.
<display x="-195" y="-105" w="150" h="90"/>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
</stage>
<stage stageid="af05cd75-42db-4c09-875d-3fedfc3ca0a2" name="Start" type="Start">
<subsheetid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetid>
<loginhibit/>
<preconditions>
<condition narrative="None"/>
</preconditions>
<postconditions>
<condition narrative="The supplied text will have been padded to be at least the number of desired characters." />
</postconditions>
<display x="15" y="-105"/>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<inputs>
```

```
<input type="text" name="Input String" narrative="The string to pad" stage="Input String"/>
<input type="number" name="Target Width" narrative="The total number of characters required after padding" stage="Input String"/>
<input type="text" name="Padding Character" narrative="The character to pad with" stage="Padding Character"/>
</inputs>

<onsuccess>6527cdd9-47d7-4784-bd96-e63afa4ec955</onsuccess>

</stage>

<stage stageid="f432b972-ae44-4485-943b-87848fd43487" name="End" type="End">

<subsheetid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetid>

<loginhibit/>

<display x="15" y="165"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Padded String" narrative="The resultant padded string" stage="Input String"/>

</outputs>

</stage>

<stage stageid="888a814c-a03d-43f0-b6d6-30501b8b3250" name="Input String" type="Data">

<subsheetid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetid>

<display x="90" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve">123</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="ea8d90c7-c341-4859-919c-4ecc076162eb" name="Target Width" type="Data">

<subsheetid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetid>

<display x="150" y="-105"/>
```


<datatype>number</datatype>

<initialvalue>5</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="56c037f3-4ff0-4923-974c-e925c84e69c8" name="Padding Character" type="Data">

<subsheetsid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetsid>

<display x="210" y="-105"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="6527cdd9-47d7-4784-bd96-e63afa4ec955" name="Blank Padding Character?" type="Dec

<subsheetsid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetsid>

<loginhibit/>

<display x="15" y="-45" w="90" h="30"/>

<decision expression="Len([Padding Character]) = 0"/>

<ontrue>26f66718-649a-4472-965d-0e1e125e7473</ontrue>

<onfalse>b6b30eec-0ee3-4316-a9af-d0a55d5ec137</onfalse>

</stage>

<stage stageid="26f66718-649a-4472-965d-0e1e125e7473" name="Use Space for Padding" type="Calcul

<subsheetsid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetsid>

<loginhibit/>

```
<display x="135" y="-45" w="90" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>6acfdd2b-9298-4841-9111-003fc203edd0</onsuccess>

<calculation expression="&quot; &quot;" stage="Padding Character"/>

</stage>

<stage stageid="6acfdd2b-9298-4841-9111-003fc203edd0" name="anchor2" type="Anchor">

<subsheetid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetid>

<loginhibit/>

<display x="135" y="0" w="10" h="10"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>b6b30eec-0ee3-4316-a9af-d0a55d5ec137</onsuccess>

</stage>

<stage stageid="b6b30eec-0ee3-4316-a9af-d0a55d5ec137" name="anchor3" type="Anchor">

<subsheetid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetid>

<loginhibit/>

<display x="15" y="0" w="10" h="10"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>e13c9c2d-2cbe-4262-828c-6307a805d9c1</onsuccess>

</stage>

<stage stageid="e13c9c2d-2cbe-4262-828c-6307a805d9c1" name="Long Enough?" type="Decision">

<subsheetid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsheetid>

<loginhibit/>

<display x="15" y="60"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<decision expression="Len([Input String]) &gt;= [Target Width]"/>

<ontrue>f432b972-ae44-4485-943b-87848fd43487</ontrue>

<onfalse>87af11ea-fa7e-45cf-b02a-fd6edeae0b85</onfalse>
```

</stage>

<stage stageid="87af11ea-fa7e-45cf-b02a-fd6edeae0b85" name="Insert Padding" type="Calculation">

<subsHEETid>ef8de52d-842b-45f0-8f1b-619bc97d4bbc</subsHEETid>

<loginhibit/>

<display x="135" y="60"/>

<onsuccess>6acfd2b-9298-4841-9111-003fc203edd0</onsuccess>

<calculation expression="[Padding Character] & & [Input String]" stage="Input String"/>

</stage>

<stage stageid="92edef27-4b78-40dd-97bd-e5a4f9169214" name="Get XML Elements" type="SubSheet">

<subsHEETid>818441a5-ffec-4841-b0ea-00712caf63aa</subsHEETid>

<narrative>Gets a collection of xml elements with a given name from an xml document.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="04bec0f1-e8bb-4c30-a5d1-b7eee243e6f9" name="Start" type="Start">

<subsHEETid>818441a5-ffec-4841-b0ea-00712caf63aa</subsHEETid>

<loginhibit/>

<display x="135" y="-120"/>

<inputs>

<input type="text" name="XML" narrative="The xml to get elements from" stage="XML"/>

<input type="text" name="Element Name" narrative="The name of the xml elements to get" stage="Element Name"/>

</inputs>

<onsuccess>17f4a862-c7e3-44c3-a373-5b325fdaab8a</onsuccess>

</stage>

<stage stageid="e4b99f55-7171-46d6-992b-db797e99b1ed" name="End" type="End">

<subsheetid>818441a5-ffec-4841-b0ea-00712caf63aa</subsheetid>

<loginhibit/>

<display x="135" y="165"/>

<outputs>

<output type="collection" name="Elements" narrative="The collection of xml elements that match the given

</outputs>

</stage>

<stage stageid="31472749-70ee-477e-a042-fcf5a25a4099" name="XML" type="Data">

<subsheetid>818441a5-ffec-4841-b0ea-00712caf63aa</subsheetid>

<display x="-75" y="60" w="120" h="30"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve"><?xml version="1.0" encoding="utf-8" ?> <Potent

<private/>

<alwaysinit/>

</stage>

<stage stageid="68a0eeb2-9377-4b12-8f31-5ae52e7109e4" name="Element Name" type="Data">

<subsheetid>818441a5-ffec-4841-b0ea-00712caf63aa</subsheetid>

<display x="-75" y="90" w="150" h="30"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve">Image</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="7b46fe82-142a-411b-bf80-b2f0047952da" name="Get Elements" type="Code">

<subsHEETid>818441a5-ffec-4841-b0ea-00712caf63aa</subsHEETid>

<loginhibit/>

<display x="135" y="60"/>

<inputs>

<input type="text" name="XML" expr="[XML]"/>

<input type="text" name="Element" expr="[Element Name]"/>

</inputs>

<outputs>

<output type="collection" name="Elements" stage="Elements"/>

</outputs>

<onsuccess>e4b99f55-7171-46d6-992b-db797e99b1ed</onsuccess>

<code>

dim table as datatable = GetDataTable("XML", "System.String")

dim row as datarow

dim doc as new xmldocument

dim list as xmlnodelist

doc.loadxml(xml)

list = doc.getelementsbytagname(element)

for each n as xmlnode in list

row = table.newrow()

row("XML") = n.outerxml

table.rows.Add(row)

next

Elements = table

</code>

</stage>

<stage stageid="d693d2fb-a196-4ddc-b2e9-b41cbe618fc3" name="Elements" type="Collection">

<subsheetid>818441a5-ffec-4841-b0ea-00712caf63aa</subsheetid>

<display x="-75" y="165" w="150" h="90"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="17f4a862-c7e3-44c3-a373-5b325fdaab8a" name="Blank XML?" type="Decision">

<subsheetid>818441a5-ffec-4841-b0ea-00712caf63aa</subsheetid>

<loginhibit/>

<display x="135" y="-30"/>

<decision expression="Len(Trim([XML])) = 0"/>

<ontrue>6eb4f747-35c0-4e57-acbf-be93ac0a1bbb</ontrue>

<onfalse>7b46fe82-142a-411b-bf80-b2f0047952da</onfalse>

</stage>

<stage stageid="6eb4f747-35c0-4e57-acbf-be93ac0a1bbb" name="anchor1" type="Anchor">

<subsheetid>818441a5-ffec-4841-b0ea-00712caf63aa</subsheetid>

<loginhibit/>

<display x="240" y="-30" w="10" h="10"/>

<onsuccess>a460ec9b-8afb-4b37-8ae0-7545448b025d</onsuccess>

</stage>

<stage stageid="a460ec9b-8afb-4b37-8ae0-7545448b025d" name="anchor2" type="Anchor">

<subsheetid>818441a5-ffec-4841-b0ea-00712caf63aa</subsheetid>

<loginhibit/>

<display x="240" y="165" w="10" h="10"/>

<onsuccess>e4b99f55-7171-46d6-992b-db797e99b1ed</onsuccess>

</stage>

<stage stageid="97b59270-9eda-4994-9fce-24d8b5d856a4" name="Get XML Attribute" type="SubSheetIn">

<subsheetid>e8af11f7-dfd4-4c86-9935-e83828b9e711</subsheetid>

<narrative>Gets the value of an xml attribute with a given name from an xml document fragment.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="802dd6e8-6b25-42b9-9af6-931049d4062a" name="Start" type="Start">

<subsheetid>e8af11f7-dfd4-4c86-9935-e83828b9e711</subsheetid>

<loginhibit/>

<display x="120" y="-105"/>

<inputs>

<input type="text" name="XML" narrative="The xml document to get attributes from" stage="XML"/>

<input type="text" name="Attribute Name" narrative="The name of the xml attribute to get" stage="Attribute">

</inputs>

<onsuccess>76737597-b716-4a52-8cbc-dfe9b5ad1f0c</onsuccess>

</stage>

<stage stageid="bc64fcfd-4386-47ec-b799-19c5454d8374" name="End" type="End">

<subsheetid>e8af11f7-dfd4-4c86-9935-e83828b9e711</subsheetid>

<loginhibit/>

```
<display x="120" y="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Value" narrative="The text value of the requested attribute" stage="Attribute Va

</outputs>

</stage>

<stage stageid="18f2ae57-8ed9-457b-8763-82dedb14a5e0" name="XML" type="Data">

<subsheetsid>e8af11f7-dfd4-4c86-9935-e83828b9e711</subsheetsid>

<display x="-90" y="75" w="150" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve">&lt;iGrading&gt;&lt;Response transactionID="de3dc0b1

<private/>

<alwaysinit/>

</stage>

<stage stageid="1941e7f9-164d-4aa2-b06e-cb3a579a30e4" name="Attribute Name" type="Data">

<subsheetsid>e8af11f7-dfd4-4c86-9935-e83828b9e711</subsheetsid>

<display x="-90" y="105" w="150" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve">method</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="c9ec2a39-8f5d-42cc-856f-33bdb2c16477" name="Attribute Value" type="Data">

<subsheetsid>e8af11f7-dfd4-4c86-9935-e83828b9e711</subsheetsid>

<display x="-90" y="135" w="150" h="30"/>
```


<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="76737597-b716-4a52-8cbc-dfe9b5ad1f0c" name="Get Attribute" type="Code">

<subsheetsid>e8af11f7-dfd4-4c86-9935-e83828b9e711</subsheetsid>

<loginhibit/>

<display x="120" y="-15"/>

<inputs>

<input type="text" name="XML" expr="[XML]"/>

<input type="text" name="Attribute" expr="[Attribute Name]"/>

</inputs>

<outputs>

<output type="text" name="Value" stage="Attribute Value"/>

</outputs>

<onsuccess>bc64fcfd-4386-47ec-b799-19c5454d8374</onsuccess>

<code>

dim i as integer = XML.indexof(Attribute)

if i > 0 then

i += Attribute.length + 2

value = XML.substring(i)

value = value.substring(0, value.indexof(" "))

else

value = ""

end if</code>

</stage>

<stage stageid="ebd306f5-f0a3-46cf-8a04-9bde5bf5cc3d" name="Get Collection as CSV" type="SubSheet">

<subsheetsid>f9add4d4-31de-4c0f-a109-0b51fa576a23</subsheetsid>

<narrative>Turns a collection into a list of comma separated values.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="1e2d9aba-666e-457b-adb8-c5991d17ba24" name="Start" type="Start">

<subsheetsid>f9add4d4-31de-4c0f-a109-0b51fa576a23</subsheetsid>

<loginhibit/>

<display x="15" y="-105"/>

<inputs>

<input type="collection" name="Input Collection" narrative="The collection to be converted to CSV" stage="1">

</inputs>

<onsuccess>e5946197-de00-4008-9491-d0ab28eaf2ee</onsuccess>

</stage>

<stage stageid="a619ae29-9260-47d3-b15c-f47342810991" name="End" type="End">

<subsheetsid>f9add4d4-31de-4c0f-a109-0b51fa576a23</subsheetsid>

<loginhibit/>

<display x="15" y="90"/>

<outputs>

<output type="text" name="Collection CSV" narrative="The CSV representation of the Input Collection" stage="1">

</outputs>

</stage>

<stage stageid="18eea322-16ab-4d30-a555-5ac6638b468f" name="Input Collection" type="Collection">

<subsheetsid>f9add4d4-31de-4c0f-a109-0b51fa576a23</subsheetsid>

<display x="120" y="-105" w="120" h="60"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e5946197-de00-4008-9491-d0ab28eaf2ee" name="Serialise to CSV" type="Code">

<subsheetsid>f9add4d4-31de-4c0f-a109-0b51fa576a23</subsheetsid>

<loginhibit/>

<display x="15" y="0" w="120" h="30"/>

<inputs>

<input type="collection" name="Input Collection" expr="[Input Collection]"/>

</inputs>

<outputs>

<output type="text" name="Output CSV" stage="Output CSV"/>

</outputs>

<onsuccess>a619ae29-9260-47d3-b15c-f47342810991</onsuccess>

<code>

Dim SB As New StringBuilder

WriteDataTable(SB, Input_Collection, True)

Output_CSV = SB.ToString()</code>

</stage>

<stage stageid="9e68e0db-adac-4a32-bd92-c7d5bfe31468" name="Output CSV" type="Data">

<subsheetid>f9add4d4-31de-4c0f-a109-0b51fa576a23</subsheetid>

<display x="90" y="90"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="47ea7760-3b58-442b-8271-c90d3c08f114" name="Split Lines by Length" type="SubSheet">

<subsheetid>6a710d42-8f41-45d0-9e74-1eddf74c0e75</subsheetid>

<narrative>Splits text into lines of a given length using word boundries to find the split point.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="51996cc8-b76e-4de1-899a-66c678dbe1f3" name="Start" type="Start">

<subsheetid>6a710d42-8f41-45d0-9e74-1eddf74c0e75</subsheetid>

<loginhibit/>

<display x="0" y="-135"/>

<inputs>

<input type="text" name="Text to Split" narrative="The single line of text that needs to be split" stage="Text">

<input type="number" name="Maximum Line Length" narrative="The maximum length of the line" stage="Maximum Line Length">

<input type="flag" name="Split Strictly by Length" narrative="Set true if the line should be split at character boundaries" stage="Split Strictly by Length">

</inputs>

<onsuccess>0fd3f2cd-7fff-49c7-b4d9-4cfc3476793a</onsuccess>

</stage>

<stage stageid="52e75580-936a-4647-a154-e984ab8d199a" name="End" type="End">

<subsheetid>6a710d42-8f41-45d0-9e74-1eddf74c0e75</subsheetid>

<loginhibit/>

<display x="0" y="60"/>

<outputs>

<output type="number" name="Line Count" stage="Line Count"/>

<output type="collection" name="Split Lines" stage="Split Lines"/>

</outputs>

</stage>

<stage stageid="0fd3f2cd-7fff-49c7-b4d9-4cfc3476793a" name="Split Lines By Length" type="Code">

<subsheetid>6a710d42-8f41-45d0-9e74-1eddf74c0e75</subsheetid>

<loginhibit/>

<display x="0" y="-45" w="90" h="60"/>

<inputs>

<input type="text" name="Text to Split" expr="[Text to Split]"/>

<input type="number" name="Maximum Line Length" expr="[Maximum Line Length]"/>

<input type="flag" name="Strict Split" expr="[Split Strictly by Length]"/>

</inputs>

<outputs>

<output type="collection" name="Split Lines" stage="Split Lines"/>

<output type="number" name="Line Count" stage="Line Count"/>

</outputs>

<onsuccess>52e75580-936a-4647-a154-e984ab8d199a</onsuccess>

<code>Dim Values as List(Of String) = Nothing

If Strict_Split Then

Values = New List(Of String)

```
While Text_to_Split.Length > 0
```

```
Dim NewLine As String = Text_to_Split.SubString(0, Math.Min(Maximum_Line_Length, Text_to_Split.Leng
```

```
.NewLine = NewLine.Trim()
```

```
Values.Add(NewLine)
```

```
If Text_to_Split.Length > NewLine.Length Then
```

```
Text_to_Split = Text_to_Split.SubString(NewLine.Length, Text_to_Split.Length - NewLine.Length)
```

```
Else
```

```
Text_to_Split = ""
```

```
End If
```

```
Text_to_Split = Text_to_Split.Trim()
```

```
End While
```

```
Else
```

```
Values = SplitTextByLengthEngine(Text_to_Split, Maximum_Line_length)
```

```
End If
```

```
Split_Lines = New DataTable()
```

```
Split_Lines.Columns.Add("Line Text", GetType(String))
```

```
For Each s as String in Values
```

```
Split_Lines.Rows.Add(New Object() {s})
```

```
Next
```

```
Line_Count = Values.Count</code>
```

```
</stage>
```

```
<stage stageid="c20b3e81-de90-46c1-a347-f094034ff28c" name="Text to Split" type="Data">
```

```
<subsheetid>6a710d42-8f41-45d0-9e74-1eddf74c0e75</subsheetid>
```

```
<display x="75" y="-135"/>
```

```
<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve">aaaa bbbb cccc dddd eeee ffff gggg hhhh iii jkkk lll mmmm nnnn o

<private/>

<alwaysinit/>

</stage>

<stage stageid="e329d1c6-7a17-4af0-aa33-d6fb517adb68" name="Split Lines" type="Collection">

<subsheetsid>6a710d42-8f41-45d0-9e74-1eddf74c0e75</subsheetsid>

<display x="135" y="45" w="120" h="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

<collectioninfo>

<field name="Line Text" type="text"/>

</collectioninfo>

</stage>

<stage stageid="50f47d4a-73f4-46d2-93e1-24a2470d2df9" name="Maximum Line Length" type="Data">

<subsheetsid>6a710d42-8f41-45d0-9e74-1eddf74c0e75</subsheetsid>

<display x="150" y="-135"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue>6</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d1f11813-b465-4a95-9194-630fb1424d37" name="Line Count" type="Data">
```

<subsheetid>6a710d42-8f41-45d0-9e74-1eddf74c0e75</subsheetid>

<display x="90" y="-60"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="89c59225-5fb8-45a8-9fb8-a102420ddbc5" name="Split Strictly by Length" type="Data">

<subsheetid>6a710d42-8f41-45d0-9e74-1eddf74c0e75</subsheetid>

<display x="225" y="-135"/>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="8d911bb3-c87f-4748-b226-9d2faaf45c95" name="Get CSV As Collection" type="SubSheet">

<subsheetid>f5b26213-5463-4b2d-b10f-b188876b436f</subsheetid>

<narrative>Turns a list of comma seperated values into a collection.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="90168461-d901-4bf7-886d-42176fe2fe34" name="Start" type="Start">

<subsheetid>f5b26213-5463-4b2d-b10f-b188876b436f</subsheetid>

<loginhibit/>

<display x="150" y="-105"/>

<inputs>

<input type="text" name="CSV" narrative="The CSV to be converted into a collection" stage="CSV"/>

<input type="flag" name="First Row Is Header" narrative="Indicates whether the first row of the CSV file sh

<input type="collection" name="Schema" narrative="Optional. A collection of column names. If left blank th

</inputs>

<onsuccess>33e5caa5-61ec-4ef6-9ae8-01466a277896</onsuccess>

</stage>

<stage stageid="f06f6c62-eada-49b0-bf89-fdbb436e13fe" name="End" type="End">

<subsheetid>f5b26213-5463-4b2d-b10f-b188876b436f</subsheetid>

<loginhibit/>

<display x="150" y="15"/>

<outputs>

<output type="collection" name="Output Collection" narrative="The collection converted from CSV" stage=

</outputs>

</stage>

<stage stageid="d5778bd8-695a-4c5e-8e8a-3764ae34f57f" name="CSV" type="Data">

<subsheetid>f5b26213-5463-4b2d-b10f-b188876b436f</subsheetid>

<loginhibit/>

<display x="225" y="-105"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="c5b7df42-71fd-41f6-af35-62ed6f68caa0" name="Output Collection" type="Collection">
<subsheetid>f5b26213-5463-4b2d-b10f-b188876b436f</subsheetid>
<loginhibit/>
<display x="45" y="15" w="120" h="60"/>

<datatype>collection</datatype>
<private/>
<alwaysinit/>
</stage>
<stage stageid="617f911a-8f73-4ce5-b428-f1441214c602" name="First Row Is Header" type="Data">
<subsheetid>f5b26213-5463-4b2d-b10f-b188876b436f</subsheetid>
<loginhibit/>
<display x="285" y="-105"/>

<datatype>flag</datatype>
<initialvalue>False</initialvalue>
<private/>
<alwaysinit/>
</stage>
<stage stageid="ff699bd2-cd5a-4996-927a-e579b22b0313" name="Schema" type="Collection">
<subsheetid>f5b26213-5463-4b2d-b10f-b188876b436f</subsheetid>
<narrative>The columns must appear in the same order as they appear in the CSV file</narrative>
<display x="390" y="-105" w="120" h="60"/>

<datatype>collection</datatype>
<private/>
<alwaysinit/>

```
<collectioninfo>

<field name="Column Name" type="text"/>

</collectioninfo>

</stage>

<stage stageid="e1587123-3967-4743-b475-5499f8c41803" name="Get Newline Character" type="SubSh

<subsheetsid>fcddf4bf-83af-4431-88db-cc2c88390cec</subsheetsid>

<narrative>Gets the text representing the two newline characters used under windows (Carriage return foll

<display x="-195" y="-105" w="150" h="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="b09f1e76-fb7c-4ef1-9a47-db4a1377d056" name="Start" type="Start">

<subsheetsid>fcddf4bf-83af-4431-88db-cc2c88390cec</subsheetsid>

<loginhibit/>

<display x="15" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>af411d25-0e83-4e28-b4f3-30f43beb9b88</onsuccess>

</stage>

<stage stageid="bee4d44f-957c-415f-be9c-614e97d6f255" name="End" type="End">

<subsheetsid>fcddf4bf-83af-4431-88db-cc2c88390cec</subsheetsid>

<loginhibit/>

<display x="15" y="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Newline Character" narrative="The new line text" stage="Newline Character"/>

</outputs>

</stage>

<stage stageid="af411d25-0e83-4e28-b4f3-30f43beb9b88" name="Get Newline Character" type="Code">
```

<subsheetid>fcddf4bf-83af-4431-88db-cc2c88390cec</subsheetid>

<loginhibit/>

<display x="15" y="0" w="90" h="60"/>

<outputs>

<output type="text" name="Newline Character" stage="Newline Character"/>

</outputs>

<onsuccess>bee4d44f-957c-415f-be9c-614e97d6f255</onsuccess>

<code>Newline_Character = VbCrLf</code>

</stage>

<stage stageid="dde302f4-2b62-45c0-a8f3-190c52116470" name="Newline Character" type="Data">

<subsheetid>fcddf4bf-83af-4431-88db-cc2c88390cec</subsheetid>

<display x="90" y="90"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="dd7d11e6-2bc7-40ed-ab47-1180482d82ed" name="Delete Characters" type="SubSheet">

<subsheetid>e70e8f13-02df-4b14-bb74-6fd5c4c95928</subsheetid>

<narrative>Removes the given characters from the text.</narrative>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="6e15c3f7-07db-4e3d-a24d-84be7e09b06e" name="Start" type="Start">

<subsheetid>e70e8f13-02df-4b14-bb74-6fd5c4c95928</subsheetid>


```
<loginhibit/>

<display x="15" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Text Sample" narrative="The piece of text to be operated on" stage="Text Samp

<input type="text" name="Characters to Delete" narrative="A string of characters to be deleted from the Te

</inputs>

<onsuccess>89bfbefd-b0a3-472a-b72c-75105d0a7895</onsuccess>

</stage>

<stage stageid="c7719606-01b9-4626-9a24-4d9cf42d1e75" name="End" type="End">

<subsheetsid>e70e8f13-02df-4b14-bb74-6fd5c4c95928</subsheetsid>

<loginhibit/>

<display x="15" y="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Amended Sample" narrative="The amended sample, with the characters delete

</outputs>

</stage>

<stage stageid="78d405b1-aa60-46a6-af38-fb4bba55e752" name="Text Sample" type="Data">

<subsheetsid>e70e8f13-02df-4b14-bb74-6fd5c4c95928</subsheetsid>

<display x="90" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>
```

<stage stageid="66318e10-ff11-43c1-9b3c-6ce27546458f" name="Characters to Delete" type="Data">

<subsheetsid>e70e8f13-02df-4b14-bb74-6fd5c4c95928</subsheetsid>

<display x="150" y="-105"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="89bfbebd-b0a3-472a-b72c-75105d0a7895" name="Replace" type="Code">

<subsheetsid>e70e8f13-02df-4b14-bb74-6fd5c4c95928</subsheetsid>

<loginhibit/>

<display x="15" y="-15"/>

<inputs>

<input type="text" name="Text Sample" expr="[Text Sample]"/>

<input type="text" name="Characters to Delete" expr="[Characters to Delete]"/>

</inputs>

<outputs>

<output type="text" name="Amended Sample" stage="Amended Sample"/>

</outputs>

<onsuccess>c7719606-01b9-4626-9a24-4d9cf42d1e75</onsuccess>

<code>For Each C as Char in Characters_To_Delete.ToCharArray()

Text_Sample = Text_Sample.Replace(C, "")

Next

Amended_Sample = Text_Sample</code>

```
</stage>

<stage stageid="930e7d0f-68a5-4d40-a291-e2dcfa4918c6" name="Amended Sample" type="Data">

<subsheetsid>e70e8f13-02df-4b14-bb74-6fd5c4c95928</subsheetsid>

<display x="90" y="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="6a0bb945-2946-4e17-8e4a-b8d7eb5e1060" name="Escape Sendkeys String" type="Subs

<subsheetsid>040cc29a-27ac-402c-8a66-328554dd4bc0</subsheetsid>

<narrative>Escapes characters to be sent via the sendkeys method, to ensure that all characters are interp

<display x="-195" y="-105" w="150" h="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="5bb1d666-6ef6-4371-a0f4-111fdf5ee69e" name="Start" type="Start">

<subsheetsid>040cc29a-27ac-402c-8a66-328554dd4bc0</subsheetsid>

<loginhibit/>

<display x="15" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Sendkeys Text" narrative="The text to be escaped" stage="Sendkeys Text"/>

</inputs>

<onsuccess>5ea70bdd-732c-4a8e-b5cb-a747f97e1090</onsuccess>

</stage>

<stage stageid="7bfda30d-2f75-46ec-b5e2-88a965528b49" name="End" type="End">
```

<subsheetid>040cc29a-27ac-402c-8a66-328554dd4bc0</subsheetid>

<loginhibit/>

<display x="15" y="90"/>

<outputs>

<output type="text" name="Escaped Sendkeys Text" narrative="The escaped sendkeys text, which can be

</outputs>

</stage>

<stage stageid="5ea70bdd-732c-4a8e-b5cb-a747f97e1090" name="Escape Text" type="Code">

<subsheetid>040cc29a-27ac-402c-8a66-328554dd4bc0</subsheetid>

<loginhibit/>

<display x="15" y="-30" w="90" h="30"/>

<inputs>

<input type="text" name="SendKeys Text" expr="[Sendkeys Text]"/>

</inputs>

<outputs>

<output type="text" name="Escaped Sendkeys Text" stage="Escaped Sendkeys Text"/>

</outputs>

<onsuccess>7bfda30d-2f75-46ec-b5e2-88a965528b49</onsuccess>

<code>Escaped_Sendkeys_Text = Regex.Replace(SendKeys_Text, "[\[\]\{\}+^%~()]", "{\$0}")</code>

</stage>

<stage stageid="c0e80092-2acc-4552-b6ab-9e3fa5abb07a" name="Escaped Sendkeys Text" type="Data">

<subsheetid>040cc29a-27ac-402c-8a66-328554dd4bc0</subsheetid>

<display x="150" y="90" w="180" h="30"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="172f06e8-629e-434a-9bee-084a177606eb" name="Sendkeys Text" type="Data">

<subsheetsid>040cc29a-27ac-402c-8a66-328554dd4bc0</subsheetsid>

<display x="90" y="-105"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="4e2f3e3d-72e1-4483-b79e-49e9f1387d8a" name="Compare Font Text" type="SubSheet">

<subsheetsid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetsid>

<narrative>Compares two items of text read using Font Recognition for equality, where "equality" means the

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="1a092a3a-7389-4bd7-8d31-a3ed761ff97c" name="Start" type="Start">

<subsheetsid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None"/>

</preconditions>

<postconditions>

<condition narrative="None"/>

```
</postconditions>

<display x="150" y="-30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Sample 1" narrative="The first item to be compared" stage="Sample 1"/>

<input type="text" name="Sample 2" narrative="The second item to be compared" stage="Sample 2"/>

<input type="collection" name="Conflicting Characters" narrative="A collection of conflicting font characters" stage="Sample 2"/>

</inputs>

<onsuccess>2aac81fd-1231-450b-94e5-3a5928ddb08b</onsuccess>

</stage>

<stage stageid="f07d147e-0807-4996-8746-e6b232b63283" name="End" type="End">

<subsheetid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetid>

<loginhibit/>

<display x="150" y="330"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="flag" name="Samples Equal" narrative="Indicates whether the samples are equal, once compared" stage="Sample 1"/>

<output type="text" name="Amended Sample 1" narrative="The first sample, with conflicting characters removed" stage="Sample 1"/>

<output type="text" name="Amended Sample 2" narrative="The second sample, with conflicting characters removed" stage="Sample 1"/>

</outputs>

</stage>

<stage stageid="fbb964d4-b0d6-4729-b88d-04d1cbfd0cb5" name="Sample 1" type="Data">

<subsheetid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetid>

<display x="225" y="-30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>
```

```
<private/>

<alwaysinit/>

</stage>

<stage stageid="4187bcbb-ee93-4b01-b7b6-4e4944c8967a" name="Sample 2" type="Data">

<subsheetid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetid>

<display x="285" y="-30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="16d61c29-acde-49f1-a0dc-5b93885cb724" name="Conflicting Characters" type="Collection">

<subsheetid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetid>

<display x="0" y="-15" w="120" h="60"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2aac81fd-1231-450b-94e5-3a5928ddb08b" name="For Each Character Group" type="Location">

<subsheetid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetid>

<loginhibit/>

<display x="150" y="45" w="120" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>dde2966f-3ac6-4a0a-9613-7f8c83db2d3a</onsuccess>

<groupid>d5a546ca-79ce-4ba9-917c-4165b543a787</groupid>
```

```
<looptype>ForEach</looptype>

<loopdata>Conflicting Characters</loopdata>

</stage>

<stage stageid="5f4d2cf9-a6a3-47c1-beed-8c8912b3f81e" name="Next Character Group" type="LoopEnd">

<subsheetsid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetsid>

<loginhibit/>

<display x="150" y="180" w="120" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>cd3e8b56-7767-489d-96de-6c9d0740de02</onsuccess>

<groupid>d5a546ca-79ce-4ba9-917c-4165b543a787</groupid>

</stage>

<stage stageid="cd3e8b56-7767-489d-96de-6c9d0740de02" name="Determine Equality" type="Calculation">

<subsheetsid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetsid>

<loginhibit/>

<display x="150" y="240"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>f07d147e-0807-4996-8746-e6b232b63283</onsuccess>

<calculation expression="[Sample 1] = [Sample 2]" stage="Samples Equal"/>

</stage>

<stage stageid="7c680a7d-326b-4d7b-b298-02df94778092" name="Samples Equal" type="Data">

<subsheetsid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetsid>

<display x="225" y="330"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>
```



```
<stage stageid="e0d2e8e4-b2f1-4cab-a39c-7252cd042e68" name="Regex Pattern" type="Data">
<subsheetid>06780f7c-9622-4d84-9db3-bb56a2ff9f36</subsheetid>
<display x="240" y="-105" w="300" h="30"/>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<datatype>text</datatype>
<initialvalue xml:space="preserve">(?
```

```
<stage stageid="d1344ba9-2a6f-4a88-bc72-0188e2ead8b7" name="Target String" type="Data">
<subsheetid>06780f7c-9622-4d84-9db3-bb56a2ff9f36</subsheetid>
<narrative>100-200
56 to 99
400 - 600</narrative>
```

```
<display x="240" y="-60" w="300" h="30"/>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<datatype>text</datatype>
<initialvalue xml:space="preserve">100-200</initialvalue>
<private/>
<alwaysinit/>
</stage>
```

```
<stage stageid="70580e44-41d3-40b3-9b12-3460963b2f5f" name="Named Values" type="Collection">
<subsheetid>06780f7c-9622-4d84-9db3-bb56a2ff9f36</subsheetid>
<display x="240" y="30" w="150" h="90"/>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<datatype>collection</datatype>
<private/>
```

```
<alwaysinit/>

<collectioninfo>

<field name="Name" type="text"/>

<field name="Value" type="text"/>

</collectioninfo>

<initialvalue>

<row>

<field name="Name" type="text" value="Lower"/>

<field name="Value" type="text" value=""/>

</row>

<row>

<field name="Name" type="text" value="Upper"/>

<field name="Value" type="text" value=""/>

</row>

</initialvalue>

</stage>

<stage stageid="526b7aa5-2df6-4a52-a8d5-fef9e3c9e776" name="Extract Values" type="Code">

<subsheetid>06780f7c-9622-4d84-9db3-bb56a2ff9f36</subsheetid>

<loginhibit/>

<display x="45" y="-15"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Regex Pattern" expr="[Regex Pattern]"/>

<input type="text" name="Target String" expr="[Target String]"/>

<input type="collection" name="Named Values" expr="[Named Values]"/>

</inputs>

<outputs>
```

<output type="collection" name="Named Values Out" stage="Named Values"/>

</outputs>

<onsuccess>78d491bd-ce28-422a-8d1f-334ba9248f4e</onsuccess>

<code>For Each Row As DataRow in Named_Values.Rows

Row("Value") = ""

Next

Dim R as New Regex(Regex_Pattern, RegexOptions.SingleLine)

Dim M as Match = R.Match(Target_String)

If M IsNot Nothing AndAlso M.Success Then

If M.Groups IsNot Nothing AndAlso M.Groups.Count > 0 Then

For Each Row As DataRow in Named_Values.Rows

Dim GroupName As String = CStr(Row("Name"))

Dim G As Group = M.Groups(GroupName)

If G.Success Then

Row("Value") = G.Value

End If

Next

End If

End If

Named_Values_Out = Named_Values</code>

</stage>

<stage stageid="33e5caa5-61ec-4ef6-9ae8-01466a277896" name="ParseCSV" type="Code">

<subsheetid>f5b26213-5463-4b2d-b10f-b188876b436f</subsheetid>

<loginhibit/>

<display x="150" y="-45"/>

<inputs>

<input type="text" name="CSV" expr="[CSV]"/>

<input type="collection" name="Schema" expr="[Schema]"/>

<input type="flag" name="FirstRowIsHeader" expr="[First Row Is Header]"/>

</inputs>

<outputs>

<output type="collection" name="outputCollection" stage="Output Collection"/>

</outputs>

<onsuccess>f06f6c62-eada-49b0-bf89-fdbb436e13fe</onsuccess>

<code>Const SchemaColumnName As String = "Column Name"

Const DefaultColumnName As String = "Column "

Const nonSchemaHeadingIndex As Integer = 0

Dim emptySchema As Boolean = Schema Is Nothing OrElse Schema.Rows.Count = 0

Dim csvValuesList = ParseCsvToList(CSV)

' If we want to parse with no schema and want the first row be used as headings

' we need to know what the headings will be.

Dim nonSchemaHeadings = If(csvValuesList.Count > 0, csvValuesList(nonSchemaHeadingIndex), New

' Arrange the column headings into the table first.

If emptySchema Then

For Each columnHeader As String In nonSchemaHeadings

Dim colName As String = If(FirstRowIsHeader, columnHeader,

```
DefaultColumnName && outputCollection.Columns.Count)
```

```
outputCollection.Columns.Add(colName, GetType(String))
```

```
Next
```

```
Else
```

```
For Each columnHeader As DataRow In Schema.Rows
```

```
Dim colName As String = columnHeader(SchemaColumnName).ToString
```

```
outputCollection.Columns.Add(colName, GetType(String))
```

```
Next
```

```
End If
```

```
' If the first row is being used for headings then skip those headings / values in csvValuesList.
```

```
Dim startListIndex As Integer = If(FirstRowIsHeader, nonSchemaHeadingIndex + 1, nonSchemaHeadingIndex)
```

```
' Insert the csv values into the table row by row.
```

```
For i As Integer = startListIndex To csvValuesList.Count - 1
```

```
Dim currentRow As DataRow = outputCollection.NewRow
```

```
outputCollection.Rows.Add(currentRow)
```

```
Dim csvArray = csvValuesList(i)
```

```
For columnIndex As Integer = 0 To csvArray.Length - 1
```

```
currentRow.Item(columnIndex) = csvArray(columnIndex)
```

```
Next
```

```
Next</code>
```

```
</stage>
```

```
<stage stageid="feb4e385-2919-4066-86ad-53cb6226c867" name="InStr" type="SubSheetInfo">
```

```
<subsheetsid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsheetsid>
```

```
<narrative>Tests to see if one peice of text contains another peice of sub text.</narrative>
```

```
<display x="-150" y="-180" w="150" h="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="353f092b-3d6f-4fda-bdab-cd5798047c44" name="End" type="End">

<subsheetid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsheetid>

<loginhibit/>

<display x="15" y="60"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="number" name="Position" narrative="The index of the sub text within the text or -1 if not four

</outputs>

</stage>

<stage stageid="f594335d-8723-4704-a8ae-e8dbcfe492c7" name="Text" type="Data">

<subsheetid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsheetid>

<display x="-180" y="-30" w="150" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="1a43e2c2-c8c1-4dfd-b58f-2775e2ea7d0e" name="Search String" type="Data">

<subsheetid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsheetid>

<display x="-180" y="0" w="150" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>
```

<private/>

<alwaysinit/>

</stage>

<stage stageid="c9bbb24e-51f9-489f-9944-30d9612c396a" name="Start Byte" type="Data">

<subsheetsid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsheetsid>

<display x="-180" y="30" w="150" h="30"/>

<datatype>number</datatype>

<initialvalue>0</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="65e660c1-4379-4323-9e01-6cd7ae38f150" name="Note1" type="Note">

<subsheetsid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsheetsid>

<loginhibit/>

<narrative>Inputs</narrative>

<display x="-180" y="-60" w="150" h="30"/>

</stage>

<stage stageid="424c6e04-b000-4dce-8eb7-ba00b0fea671" name="InStr" type="Code">

<subsheetsid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsheetsid>

<loginhibit/>

<display x="15" y="-15"/>

<inputs>

<input type="text" name="InText" expr="[Text]"/>

<input type="text" name="Search String" expr="[Search String]"/>

<input type="number" name="Start Byte" expr="[Start Byte]"/>

<input type="number" name="Compare Method" expr="[Compare Method]"/>

</inputs>

<outputs>

<output type="number" name="Position" stage="Position"/>

</outputs>

<onsuccess>353f092b-3d6f-4fda-bdab-cd5798047c44</onsuccess>

<code> Position = Microsoft.VisualBasic.InStr(Start_Byte,InText, Search_String, 1)</code>

</stage>

<stage stageid="7f283fb0-e9fa-4e24-82d1-aae53fd5afe1" name="Position" type="Data">

<subsheetsid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsheetsid>

<display x="-165" y="165" w="150" h="30"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d00b9153-969d-4db4-b737-b1ac835c7b2a" name="Compare Method" type="Data">

<subsheetsid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsheetsid>

<loginhibit/>

<narrative>1 = text, 0 = binary</narrative>

<display x="-180" y="60" w="150" h="30"/>

<datatype>number</datatype>

<initialvalue>1</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="4bbb2261-2d01-49a5-88e8-c8d37745fd60" name="InStrRev" type="SubSheetInfo">

<subsheetsid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsheetsid>

<narrative>Tests to see if one peice of text contains another peice of sub text but matches in reverse.</nar

<display x="-150" y="-135" w="150" h="90"/>

</stage>

<stage stageid="3ddcb7e5-570f-430d-8374-ed9066da51c0" name="Start" type="Start">

<subsheetsid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsheetsid>

<loginhibit/>

<display x="15" y="-105"/>

<inputs>

<input type="text" name="Text" narrative="Text to search in" stage="Text"/>

<input type="text" name="Search String" narrative="The text to search for" stage="Search String"/>

<input type="number" name="Start Byte" narrative="Where in the string to search from" stage="Start Byte"/>

<input type="number" name="Compare Method" narrative="1=text, 0=binary" stage="Compare Method"/>

</inputs>

<onsuccess>4991333f-9a42-4dc3-b73b-a8bc97edab6d</onsuccess>

</stage>

<stage stageid="251f9278-c41e-44a0-835b-bfc48910933d" name="Text" type="Data">

<subsheetsid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsheetsid>

<display x="-180" y="-30" w="150" h="30"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="393bbd43-ae95-438d-b358-f51cc69d5e5c" name="Search String" type="Data">

<subsheetsid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsheetsid>

<display x="-180" y="0" w="150" h="30"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="a898a11a-c6ca-4a70-abcd-42f38192de24" name="Start Byte" type="Data">

<subsheetsid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsheetsid>

<display x="-180" y="30" w="150" h="30"/>

<datatype>number</datatype>

<initialvalue>-1</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="73737012-9282-4e33-9d87-c4718367216d" name="Note1" type="Note">

<subsheetsid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsheetsid>

<loginhibit/>

<narrative>Inputs</narrative>

<display x="-180" y="-60" w="150" h="30"/>

</stage>

<stage stageid="4991333f-9a42-4dc3-b73b-a8bc97edab6d" name="InStrRev" type="Code">

<subsheetid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsheetid>

<loginhibit/>

<display x="15" y="-15"/>

<inputs>

<input type="text" name="InText" expr="[Text]"/>

<input type="text" name="Search String" expr="[Search String]"/>

<input type="number" name="Start Byte" expr="[Start Byte]"/>

<input type="number" name="Compare Method" expr="[Compare Method]"/>

</inputs>

<outputs>

<output type="number" name="Position" stage="Position"/>

</outputs>

<onsuccess>ba288c3f-ff29-4df2-af77-a2823f65f60c</onsuccess>

<code> Position = Microsoft.VisualBasic.InStrRev(InText, Search_String, Start_Byte, 1)</code>

</stage>

<stage stageid="63d5b70d-b54a-4451-b957-9ea177292994" name="Position" type="Data">

<subsheetid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsheetid>

<display x="-165" y="150" w="150" h="30"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="57a39985-6197-4f21-bdff-e46bd897faa6" name="Compare Method" type="Data">

<subsHEETid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsHEETid>

<loginhibit/>

<narrative>1 = text, 0 = binary</narrative>

<display x="-180" y="60" w="150" h="30"/>

<datatype>number</datatype>

<initialvalue>1</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d0bb7b29-fbb3-43cd-ab69-7f76a9c657e5" name="Note1" type="Note">

<subsHEETid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsHEETid>

<loginhibit/>

<narrative>Outputs</narrative>

<display x="-165" y="120" w="150" h="30"/>

</stage>

<stage stageid="b27c7a93-8e3b-4ed8-b105-e08cd2c96fdf" name="Note1" type="Note">

<subsHEETid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsHEETid>

<loginhibit/>

<narrative>Outputs</narrative>

<display x="-165" y="135" w="150" h="30"/>

</stage>

<stage stageid="bc4f3574-a096-4b9f-b836-0bc100bf2a18" name="Start" type="Start">

<subsHEETid>0244396a-1d3d-4892-b6cb-461468f4c7e1</subsHEETid>

```
<loginhibit/>

<preconditions>

<condition narrative=""/>

</preconditions>

<display x="15" y="-90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Text" narrative="Text to search in" stage="Text"/>

<input type="text" name="Search String" narrative="The text to search for" stage="Search String"/>

<input type="number" name="Start Byte" narrative="Where in the string to search from" stage="Start Byte"/>

<input type="number" name="Compare Method" narrative="1=text, 0=binary" stage="Compare Method"/>

</inputs>

<onsuccess>424c6e04-b000-4dce-8eb7-ba00b0fea671</onsuccess>

</stage>

<stage stageid="ba288c3f-ff29-4df2-af77-a2823f65f60c" name="End" type="End">

<subsheetsid>9ab28c01-86eb-458d-b8d9-74f98926d266</subsheetsid>

<loginhibit/>

<display x="15" y="75"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="number" name="Position" narrative="The index of the sub text within the text from the end of the text"/>

</outputs>

</stage>

<stage stageid="73739a66-400b-488a-bd7a-63a2f0d2a4ef" name="Test Regex Match" type="SubSheetIn">

<subsheetsid>a6b6398e-c21a-4c4e-9742-65ccad8370d9</subsheetsid>

<narrative>Check if a given Text value matches a regular expression.</narrative>

<display x="-195" y="-105" w="150" h="90"/>
```


</stage>

<stage stageid="568b67f8-4216-4af4-bea8-1c83bbff7e16" name="Start" type="Start">

<subsheetid>a6b6398e-c21a-4c4e-9742-65ccad8370d9</subsheetid>

<loginhibit/>

<display x="-30" y="-120"/>

<inputs>

<input type="text" name="Regex Pattern" narrative="The regex pattern to apply" stage="Regex Pattern"/>

<input type="text" name="Target String" narrative="The target string to which apply the pattern and extract"/>

</inputs>

<onsuccess>2ad0c111-6108-4ca5-945b-22aab4b6bb27</onsuccess>

</stage>

<stage stageid="46282093-d3a9-4e38-b030-95b332ec5371" name="End" type="End">

<subsheetid>a6b6398e-c21a-4c4e-9742-65ccad8370d9</subsheetid>

<loginhibit/>

<display x="-30" y="75"/>

<outputs>

<output type="flag" name="Matched?" narrative="Whether or not the regex match" stage="Regex Match"/>

</outputs>

</stage>

<stage stageid="32d3ef8a-d0b2-4093-afc5-98bad356c881" name="Regex Pattern" type="Data">

<subsheetid>a6b6398e-c21a-4c4e-9742-65ccad8370d9</subsheetid>

<display x="165" y="-120" w="300" h="30"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="5747c96e-0ce3-4e78-b446-17b9cef5b655" name="Target String" type="Data">

<subsheetsid>a6b6398e-c21a-4c4e-9742-65ccad8370d9</subsheetsid>

<narrative>100-200

56 to 99

400 - 600</narrative>

<display x="165" y="-75" w="300" h="30"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2ad0c111-6108-4ca5-945b-22aab4b6bb27" name="Test Regex Match1" type="Code">

<subsheetsid>a6b6398e-c21a-4c4e-9742-65ccad8370d9</subsheetsid>

<loginhibit/>

<display x="-30" y="-30"/>

<inputs>

<input type="text" name="Regex Pattern" expr="[Regex Pattern]"/>

<input type="text" name="Target String" expr="[Target String]"/>

</inputs>

<outputs>

<output type="flag" name="Regex Match" stage="Regex Match"/>

</outputs>

<onsuccess>46282093-d3a9-4e38-b030-95b332ec5371</onsuccess>

<code>

Dim R as New Regex(Regex_Pattern, RegexOptions.SingleLine)

Dim M as Match = R.Match(Target_String)

Regex_Match = M IsNot Nothing AndAlso M.Success</code>

</stage>

<stage stageid="24d6e567-f121-4d8a-a4ee-1402f8f2832d" name="Regex Match" type="Data">

<subsheetid>a6b6398e-c21a-4c4e-9742-65ccad8370d9</subsheetid>

<display x="45" y="-30"/>

<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="dde2966f-3ac6-4a0a-9613-7f8c83db2d3a" name="Delete from Sample 1" type="SubSheet">

<subsheetid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetid>

<loginhibit/>

<display x="150" y="90"/>

<inputs>

<input type="text" name="Text Sample" narrative="The piece of text to be operated on" expr="[Sample 1]"/>

<input type="text" name="Characters to Delete" narrative="A string of characters to be deleted from the Text Sample"/>

</inputs>

<outputs>

<output type="text" name="Amended Sample" narrative="The amended sample, with the characters deleted"/>

</outputs>

```
<onsuccess>50c19466-f7e4-4066-a4c1-d18f65876de0</onsuccess>

<processid>e70e8f13-02df-4b14-bb74-6fd5c4c95928</processid>

</stage>

<stage stageid="50c19466-f7e4-4066-a4c1-d18f65876de0" name="Delete from Sample 2" type="SubSheet">

<subsheetid>527ca986-a03f-4231-880e-5b1c244b035e</subsheetid>

<loginhibit/>

<display x="150" y="135"/>

<inputs>

<input type="text" name="Text Sample" narrative="The piece of text to be operated on" expr="[Sample 2]"/>

<input type="text" name="Characters to Delete" narrative="A string of characters to be deleted from the Text Sample"/>

</inputs>

<outputs>

<output type="text" name="Amended Sample" narrative="The amended sample, with the characters deleted from the Text Sample"/>

</outputs>

<onsuccess>5f4d2cf9-a6a3-47c1-beed-8c8912b3f81e</onsuccess>

<processid>e70e8f13-02df-4b14-bb74-6fd5c4c95928</processid>

</stage>

</process>

<process name="Utility - Windows Compressed File" version="6.7.0.0" bpversion="6.4.0.6917" narrative="Utility - Windows Compressed File">

<appdef>

<element name="Application Root">

<id>a2f9b8bd-885a-454f-8920-1bfb80d1e30d</id>

<type>Application</type>

<basetype>Application</basetype>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>
```

```
</appdef>

<view>

<camerax>46</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

<preconditions>

<condition narrative="The object uses the following system dll: System.IO.Compression.dll, System.IO.Compression.FileSystem.dll">

</preconditions>

<endpoint narrative=""/>

<subsheet subsheetid="a8c54015-2025-4723-aefa-2bb6f3b3c82e" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="cba14fb2-1425-4834-b382-ac9cea30c23e" type="Normal" published="True">

<name>Create Zip from Folder</name>

<view>

<camerax>13</camerax>

<cameray>-42</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="ae2b448f-a968-4bda-a664-20a9149cb9dc" type="Normal" published="True">
```

<name>Add File to Zip</name>

<view>

<camerax>0</camerax>

<cameray>9</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="4b8d01fc-6c2f-4fd8-b898-ae83af14c4e6" type="Normal" published="True">

<name>Extract All from Zip</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="9f52e71b-02ee-46c3-be9e-aabc3292fcee" type="Normal" published="True">

<name>Extract File from Zip</name>

<view>

<camerax>-4</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="384cbfc3-88e8-41ab-8878-b2bac7146be0" type="Normal" published="True">

<name>Delete File from Zip</name>

<view>

<camerax>159</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="4ae23c8c-54a6-4a86-a148-2175c86923b8" type="Normal" published="True">

<name>Get Zip Contents</name>

<view>

<camerax>-17</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="09530b1d-93d7-49b4-9a7c-ff1f3e9c6b7e" type="Normal" published="True">

<name>Find File in Zip</name>

<view>

<camerax>-324</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<stage stageid="de2a9469-aaff-47a3-b6ab-a3f9655ba178" name="Start" type="Start">

<loginhibit onsucces="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<onsuccess>5038e902-5abf-4672-a1eb-db05a9a64573</onsuccess>

</stage>

<stage stageid="5038e902-5abf-4672-a1eb-db05a9a64573" name="End" type="End">

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="b923ffc0-d01c-4d44-8de1-d6e7ce0fa1bd" name="Stage1" type="ProcessInfo">

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<references>

<reference>System.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

```
<reference>System.Drawing.dll</reference>

<reference>System.IO.Compression.dll</reference>

<reference>System.IO.Compression.FileSystem.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

<import>System.IO.Compression</import>

<import>System.IO</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

</stage>

<stage stageid="311e15cd-3b4f-4437-882d-c780422f4eba" name="Clean Up" type="SubSheetInfo">

<subsheetsid>a8c54015-2025-4723-aefa-2bb6f3b3c82e</subsheetsid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="b1151e12-bd2b-4313-9510-a7e7e23270ab" name="Start" type="Start">
```

<subsheetid>a8c54015-2025-4723-aefa-2bb6f3b3c82e</subsheetid>

<loginhibit onsucces="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<onsucces>974309d2-4236-40ed-8fb3-d5022f214e75</onsucces>

</stage>

<stage stageid="974309d2-4236-40ed-8fb3-d5022f214e75" name="End" type="End">

<subsheetid>a8c54015-2025-4723-aefa-2bb6f3b3c82e</subsheetid>

<loginhibit onsucces="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="f3bb5c44-9e21-44b3-87bb-2c13e43d4ee4" name="Create Zip from Folder" type="SubShe

<subsheetid>cba14fb2-1425-4834-b382-ac9cea30c23e</subsheetid>

<loginhibit onsucces="true"/>

<narrative>Creates a zip archive that contains the files and directories from the specified directory and opti

The directory structure from the file system is preserved in the archive. If the directory is empty, an empty a


```
<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="d3bbabee-48ed-4a02-8ba2-ea6f26120dd3" name="Note1" type="Note">

<subsheetid>a8c54015-2025-4723-aefa-2bb6f3b3c82e</subsheetid>
```

```
<loginhibit onsuccess="true"/>

<narrative>Clean Up Page
```

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

```
<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="a691fffd-16c4-45d9-8857-19c63fc3df21" name="Note2" type="Note">

<loginhibit onsuccess="true"/>
```

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business object is created.

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a business object is created.

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="ab1ebb75-538f-4b88-86db-cbc9ec59ec7f" name="CreateFromDirectory" type="Code">

<subsheetid>cba14fb2-1425-4834-b382-ac9cea30c23e</subsheetid>

<loginhibit onsucceed="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-45</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="sourcePath" expr="[Source Folder Name]"/>

<input type="text" name="destinationPath" expr="[Destination Zip File Name]"/>

<input type="flag" name="includeFolder" expr="[Include Base Folder]"/>

```
</inputs>

<onsuccess>d85e5bc8-34f9-47f4-a90b-1c121cade800</onsuccess>

<code>ZipFile.CreateFromDirectory(sourcePath, destinationPath, CompressionLevel.Fastest, includeFold

</stage>

<stage stageid="c2a2fa27-6dfb-48ed-a0ac-093c908df743" name="Source Folder Name" type="Data">

<subsheetid>cba14fb2-1425-4834-b382-ac9cea30c23e</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>The path to the directory to be archived, specified as an absolute path</narrative>

<displayx>-195</displayx>

<displayy>0</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="801f9184-f52a-4658-9f7a-651ee0500101" name="Destination Zip File Name" type="Data">

<subsheetid>cba14fb2-1425-4834-b382-ac9cea30c23e</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>The path and name of the archive to be created, specified as an absolute path</narrative>

<displayx>-195</displayx>

<displayy>45</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>
```

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="6440cb36-2e97-4c3c-b42d-8f77984a6253" name="Add File to Zip" type="SubSheetInfo">

<subsheetsid>ae2b448f-a968-4bda-a664-20a9149cb9dc</subsheetsid>

<loginhibit onsucces="true"/>

<narrative>Archives a file by compressing it and adding it to the zip archive. If an entry with the specified n

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="9654be57-b0eb-490b-bd0f-2cef3d08368c" name="End" type="End">

<subsheetsid>ae2b448f-a968-4bda-a664-20a9149cb9dc</subsheetsid>

<loginhibit onsucces="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>30</displayy>

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</stage>

<stage stageid="25f35431-4b28-4c14-b45e-48b3844f6baa" name="CreateEntryFromFile" type="Code">
```

<subsheetid>ae2b448f-a968-4bda-a664-20a9149cb9dc</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-45</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="sourcePath" expr="[Source File Name]"/>

<input type="text" name="destinationPath" expr="[Destination Zip File Name]"/>

<input type="text" name="destinationName" expr="[Destination File Name]"/>

</inputs>

<onsuccess>9654be57-b0eb-490b-bd0f-2cef3d08368c</onsuccess>

<code>Dim f As New FileInfo(sourcePath)

Using archive As ZipArchive = ZipFile.Open(destinationPath, ZipArchiveMode.Update)

If destinationName <> "" Then

destinationName = destinationName.Replace("\", "/")

archive.CreateEntryFromFile(sourcePath, destinationName, CompressionLevel.Fastest)

Else

archive.CreateEntryFromFile(sourcePath, f.Name, CompressionLevel.Fastest)

End If

End Using</code>

</stage>

<stage stageid="1e5d5703-3998-4708-beab-7e74b905098a" name="Source File Name" type="Data">

<subsheetid>ae2b448f-a968-4bda-a664-20a9149cb9dc</subsheetid>

```
<loginhibit onsuccess="true"/>

<narrative>The path and name of the file to be archived, specify as an absolute path</narrative>

<displayx>-195</displayx>

<displayy>-30</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

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<alwaysinit/>

</stage>

<stage stageid="8c8d36df-3d94-49c9-b7b2-c8a5b4931cf5" name="Destination Zip File Name" type="Data

<subsheetid>ae2b448f-a968-4bda-a664-20a9149cb9dc</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>The path and name of the zip archive to add the file to, specified as an absolute path</narrative>

<displayx>-195</displayx>

<displayy>15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="24dbb76c-b80e-4bc1-a91b-1edff6d414e8" name="Start" type="Start">
```

<subsheetid>ae2b448f-a968-4bda-a664-20a9149cb9dc</subsheetid>

<loginhibit onsucceed="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Source File Name" narrative="Mandatory: The path and name of the file to be ar

<input type="text" name="Destination Zip File Name" narrative="Mandatory: The path and name of the zip

<input type="text" name="Destination File Name" narrative="Optional: The path and name of the added file

</inputs>

<onsucceed>25f35431-4b28-4c14-b45e-48b3844f6baa</onsucceed>

</stage>

<stage stageid="69b3f3a6-22d9-4434-82c8-91267d1f8e5f" name="Include Base Folder" type="Data">

<subsheetid>cba14fb2-1425-4834-b382-ac9cea30c23e</subsheetid>

<loginhibit onsucceed="true"/>

<narrative>-true- to include the directory name from [Source Folder Name] at the root of the archive; -false

<displayx>-195</displayx>

<displayy>90</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>


```
<private/>

<alwaysinit/>

</stage>

<stage stageid="f6393684-039c-4cb4-9d15-bef3fccfabe0" name="Extract All from Zip" type="SubSheetInfo">

<subsheetid>4b8d01fc-6c2f-4fd8-b898-ae83af14c4e6</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>Extracts all the files in the specified zip archive to a directory on the file system</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="f353f740-6721-4910-b393-5bf8c85f4890" name="End" type="End">

<subsheetid>4b8d01fc-6c2f-4fd8-b898-ae83af14c4e6</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="a11db9ca-5780-4400-8e14-26d0e638e2a7" name="ExtractToDirectory" type="Code">

<subsheetid>4b8d01fc-6c2f-4fd8-b898-ae83af14c4e6</subsheetid>

<loginhibit onsuccess="true"/>
```

```
<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-45</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="sourcePath" expr="[Source Zip File Name]"/>

<input type="text" name="destinationPath" expr="[Destination Folder Name]"/>

</inputs>

<onsuccess>f353f740-6721-4910-b393-5bf8c85f4890</onsuccess>

<code>ZipFile.ExtractToDirectory(sourcePath, destinationPath)</code>

</stage>

<stage stageid="8b916105-3bcc-47d7-ac6c-3c5f499b5a29" name="Source Zip File Name" type="Data">

<subsheetsid>4b8d01fc-6c2f-4fd8-b898-ae83af14c4e6</subsheetsid>

<loginhibit onsuccess="true"/>

<narrative>The path and name of the zip archive to open, specified as an absolute path</narrative>

<displayx>-195</displayx>

<displayy>-30</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>
```

```
</stage>

<stage stageid="32f81ae0-9a03-45df-8dfe-a72db5269d07" name="Destination Folder Name" type="Data">

<subsheetid>4b8d01fc-6c2f-4fd8-b898-ae83af14c4e6</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>The path to the directory in which to place the extracted files, specified as a absolute path</nar

<displayx>-195</displayx>

<displayy>15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="8e8ed20c-ca5d-4447-96cc-8a40bad4d590" name="Start" type="Start">

<subsheetid>4b8d01fc-6c2f-4fd8-b898-ae83af14c4e6</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Source Zip File Name" narrative="Mandatory: The path and name of the zip arch
```

```
<input type="text" name="Destination Folder Name" narrative="Mandatory: The path to the directory in which the zip file is located" />
</inputs>

<onsuccess>a11db9ca-5780-4400-8e14-26d0e638e2a7</onsuccess>

</stage>

<stage stageid="8a5997b0-2204-4cdc-a5b9-232ef9e8d580" name="Get Zip Contents" type="SubSheetInfo" />
<subsheets>
  <subsheetsid>4ae23c8c-54a6-4a86-a148-2175c86923b8</subsheetsid>
  <loginhibit onsheets="true"/>
  <narrative>Reads the details of the entries of a zip file into a collection</narrative>
  <displayx>-195</displayx>
  <displayy>-105</displayy>
  <displaywidth>150</displaywidth>
  <displayheight>90</displayheight>
  <font family="Segoe UI" size="10" style="Regular" color="000000"/>
</stage>

<stage stageid="14faa9d4-8ced-4d2b-b6ad-3fa355ce0f41" name="Start" type="Start">
<subsheets>
  <subsheetsid>4ae23c8c-54a6-4a86-a148-2175c86923b8</subsheetsid>
  <loginhibit onsheets="true"/>
  <narrative>
  </narrative>
  <displayx>15</displayx>
  <displayy>-105</displayy>
  <displaywidth>60</displaywidth>
  <displayheight>30</displayheight>
  <font family="Segoe UI" size="10" style="Regular" color="000000"/>
  <inputs>
    <input type="text" name="Zip File Name" narrative="Mandatory: The path and name of the zip archive to open" />
  </inputs>
```

```
<onsuccess>1107bae2-b326-4987-852a-63accf822f46</onsuccess>

</stage>

<stage stageid="166051b1-a675-4188-a195-b225947d8cbd" name="End" type="End">

<subsheetid>4ae23c8c-54a6-4a86-a148-2175c86923b8</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<outputs>

<output type="collection" name="Contents" narrative="The files in the zip archive" stage="Contents"/>

</outputs>

</stage>

<stage stageid="1107bae2-b326-4987-852a-63accf822f46" name="GetZipContents" type="Code">

<subsheetid>4ae23c8c-54a6-4a86-a148-2175c86923b8</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-45</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<inputs>
```

```
<input type="text" name="path" expr="[Zip File Name]"/>

</inputs>

<outputs>

<output type="collection" name="Contents" stage="Contents"/>

</outputs>

<onsuccess>166051b1-a675-4188-a195-b225947d8cbd</onsuccess>

<code>Dim dt As New DataTable

With dt.Columns

.Add("Name", GetType(String))

.Add("Path", GetType(String))

.Add("Length", GetType(Long))

.Add("CompressedLength", GetType(Long))

End With

Using archive As ZipArchive = ZipFile.OpenRead(path)

For Each entry As ZipArchiveEntry In archive.Entries

Dim dr As Data.DataRow = dt.NewRow

dr(0) = entry.Name

dr(1) = entry.FullName

dr(2) = entry.Length

dr(3) = entry.CompressedLength

dt.Rows.Add(dr)

Next

End Using

Contents = dt</code>

</stage>
```

```
<stage stageid="f577fc93-b8cc-4ed8-8de6-ceac00a1a0bf" name="Contents" type="Collection">
<subsheetsid>4ae23c8c-54a6-4a86-a148-2175c86923b8</subsheetsid>
<loginhibit onsucces="true"/>
<narrative>The list of files contained in the zip archive</narrative>
<displayx>-195</displayx>
<displayy>30</displayy>
<displaywidth>150</displaywidth>
<displayheight>30</displayheight>
<font family="Segoe UI" size="10" style="Regular" color="000000"/>
<datatype>collection</datatype>
<private/>
<alwaysinit/>
<collectioninfo>
<field name="Name" type="text" description="The file name"/>
<field name="Path" type="text" description="The file path within the zip archive"/>
<field name="Length" type="number" description="The original file size"/>
<field name="CompressedLength" type="number" description="The compressed file size"/>
</collectioninfo>
</stage>
```

```
<stage stageid="0fcbe61b-7770-4f5f-b1bc-67bee177e610" name="Extract File from Zip" type="SubSheet"
<subsheetsid>9f52e71b-02ee-46c3-be9e-aabc3292fcee</subsheetsid>
<loginhibit onsucces="true"/>
<narrative>Extracts an entry in the zip archive to a file, and optionally overwrites an existing file that has th
<displayx>-195</displayx>
<displayy>-105</displayy>
<displaywidth>150</displaywidth>
<displayheight>90</displayheight>
```


</stage>

<stage stageid="5ce56c02-f357-4f04-93b1-e8807172f3a6" name="End" type="End">

<subsheetid>9f52e71b-02ee-46c3-be9e-aabc3292fcee</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="63d43b33-8fc2-426f-a51a-79b181c5d39e" name="Start" type="Start">

<subsheetid>9f52e71b-02ee-46c3-be9e-aabc3292fcee</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Source File Name" narrative="Mandatory: The path and name of the zip archive

<input type="text" name="Source Zip File Name" narrative="Mandatory: The file name (and its path within t

<input type="text" name="Destination File Path" narrative="Mandatory: The path and name of the file to cre


```
<input type="flag" name="Overwrite Destination File" narrative="Optional: True to overwrite an existing file
</inputs>

<onsuccess>355ff556-1f34-4d39-b0c9-e20c6d46a1cb</onsuccess>

</stage>

<stage stageid="db77b30a-f8d6-4bc4-9f16-b0d979a56d0d" name="Destination File Name" type="Data">

<subsheetsid>9f52e71b-02ee-46c3-be9e-aabc3292fcee</subsheetsid>

<loginhibit onsuccess="true"/>

<narrative>The path and name of the file to create from the contents of the entry (absolute path)</narrative>

<displayx>-195</displayx>

<displayy>60</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e146c445-49ef-430f-b415-89c1e4044de4" name="Source File Name" type="Data">

<subsheetsid>9f52e71b-02ee-46c3-be9e-aabc3292fcee</subsheetsid>

<loginhibit onsuccess="true"/>

<narrative>The file name (and its path within the zip archive if necessary) to extract</narrative>

<displayx>-195</displayx>

<displayy>15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>
```

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="493af76c-d917-47cf-9ca1-95f580d8fd82" name="Source Zip File Name" type="Data">

<subsHEETid>9f52e71b-02ee-46c3-be9e-aabc3292fcee</subsHEETid>

<loginhibit onsUCCESS="true"/>

<narrative>The path and name of the zip archive to open, specified as an absolute path</narrative>

<displayx>-195</displayx>

<displayy>-30</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="355ff556-1f34-4d39-b0c9-e20c6d46a1cb" name="GetFile" type="Code">

<subsHEETid>9f52e71b-02ee-46c3-be9e-aabc3292fcee</subsHEETid>

<loginhibit onsUCCESS="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-45</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="zipPath" expr="[Source Zip File Name]"/>

<input type="text" name="sourcePath" expr="[Source File Name]"/>

<input type="text" name="destinationPath" expr="[Destination File Name]"/>

<input type="flag" name="overwrite" expr="[Overwrite Destination File]"/>

</inputs>

<onsuccess>5ce56c02-f357-4f04-93b1-e8807172f3a6</onsuccess>

<code>sourcePath = sourcePath.Replace("\", "/")

Using archive As ZipArchive = ZipFile.OpenRead(zipPath)

For Each entry As ZipArchiveEntry In archive.Entries

If String.Equals(entry.FullName, sourcePath, StringComparison.OrdinalIgnoreCase) Then

entry.ExtractToFile(destinationPath, overwrite)

Exit Sub

End If

Next

End Using

Throw New Exception("File not found in archive: " + sourcePath)</code>

</stage>

<stage stageid="7dedd1d6-152c-4e65-8f1b-9436749da135" name="Overwrite Destination File" type="Data"

<subsheetid>9f52e71b-02ee-46c3-be9e-aabc3292fcee</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>True to overwrite an existing file that has the same name as the destination file; otherwise, False

<displayx>-195</displayx>

<displayy>105</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue>True</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="ea5ce3ca-0ce0-49e0-a8bf-421fa853d4c5" name="Extract File from Zip" type="SubSheetI

<subsheetsid>384cbfc3-88e8-41ab-8878-b2bac7146be0</subsheetsid>

<loginhibit onsuccess="true"/>

<narrative>Deletes the entry from the zip archive</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="b2567083-5ffa-4ee6-81f3-743d2ff807d5" name="End" type="End">

<subsheetsid>384cbfc3-88e8-41ab-8878-b2bac7146be0</subsheetsid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="643b1483-c5c2-433c-936e-77ac1af120d9" name="Start" type="Start">

<subsheetid>384cbfc3-88e8-41ab-8878-b2bac7146be0</subsheetid>

<loginhibit onsucces="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Zip File Name" narrative="Mandatory: The path and name of the zip archive to o

<input type="text" name="File Name" narrative="Mandatory: The file name (and its path within the zip arch

</inputs>

<onsucces>a88b5869-dd86-4665-b65d-a978a09487d2</onsucces>

</stage>

<stage stageid="a88b5869-dd86-4665-b65d-a978a09487d2" name="DeleteFile" type="Code">

<subsheetid>384cbfc3-88e8-41ab-8878-b2bac7146be0</subsheetid>

<loginhibit onsucces="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-45</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="zipPath" expr="[Zip File Name]"/>

<input type="text" name="sourcePath" expr="[File Name]"/>

</inputs>

<onsuccess>b2567083-5ffa-4ee6-81f3-743d2ff807d5</onsuccess>

<code>sourcePath = sourcePath.Replace("\", "/")

Using archive As ZipArchive = ZipFile.Open(zipPath, ZipArchiveMode.Update)

For Each entry As ZipArchiveEntry In archive.Entries

If String.Equals(entry.FullName, sourcePath, StringComparison.OrdinalIgnoreCase) Then

entry.Delete

Exit Sub

End If

Next

End Using

Throw New Exception("File not found in archive: " + sourcePath)</code>

</stage>

<stage stageid="6f9ade2f-5c0d-4d45-a78b-fdaa04fe961d" name="File Name" type="Data">

<subsheetid>384cbfc3-88e8-41ab-8878-b2bac7146be0</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>The file name (and its path within the zip archive if necessary) to delete</narrative>

<displayx>-195</displayx>

<displayy>30</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="20021330-607d-4145-b42f-fa0d5931e080" name="Zip File Name" type="Data">

<subsheetid>384cbfc3-88e8-41ab-8878-b2bac7146be0</subsheetid>

<loginhibit onsucces="true"/>

<narrative>The path and name of the zip archive to open, specified as an absolute path</narrative>

<displayx>-195</displayx>

<displayy>-15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="4c62b494-7f4e-4444-993d-bb5717e49cd2" name="Zip File Name" type="Data">

<subsheetid>4ae23c8c-54a6-4a86-a148-2175c86923b8</subsheetid>

<loginhibit onsucces="true"/>

<narrative>The path and name of the zip archive to open, specified as an absolute path</narrative>

<displayx>-195</displayx>

<displayy>-15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e93650ad-a9f2-4a38-b5fc-0d3dc1daf818" name="Find File in Zip" type="SubSheetInfo">

<subsheetsid>09530b1d-93d7-49b4-9a7c-ff1f3e9c6b7e</subsheetsid>

<loginhibit onsucces="true"/>

<narrative>Check if a file exists in the Zip Archive</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="4de67c14-ac7c-44c0-86b9-376b76499209" name="End" type="End">

<subsheetsid>09530b1d-93d7-49b4-9a7c-ff1f3e9c6b7e</subsheetsid>

<loginhibit onsucces="true"/>

<narrative>

</narrative>

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<displayy>15</displayy>

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<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<outputs>
```



```
<output type="flag" name="Found" narrative="True if the file exists in the Zip Archive file, otherwise False"
</outputs>

</stage>

<stage stageid="0418a4c1-99c5-45b7-bb82-cfce74f10de8" name="FindFile" type="Code">

<subsheetid>09530b1d-93d7-49b4-9a7c-ff1f3e9c6b7e</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-45</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="path" expr="[Zip File Name]"/>

<input type="text" name="file" expr="[File Name]"/>

</inputs>

<outputs>

<output type="flag" name="Found" stage="Found"/>

</outputs>

<onsuccess>4de67c14-ac7c-44c0-86b9-376b76499209</onsuccess>

<code>file = file.Replace("\", "/")
```

```
Dim dt As New DataTable
```

```
dt.Columns.Add("Path", Type.GetType("System.String"))
```

```
found = false
```

```
Using archive As ZipArchive = ZipFile.OpenRead(path)
```

```
For Each entry As ZipArchiveEntry In archive.Entries
```

```
If entry.FullName = file Then
```

```
found = true
```

```
Exit For
```

```
End If
```

```
Next
```

```
End Using</code>
```

```
</stage>
```

```
<stage stageid="8aa98f62-8978-41ea-9630-8db70ace9246" name="Zip File Name" type="Data">
```

```
<subsheetid>09530b1d-93d7-49b4-9a7c-ff1f3e9c6b7e</subsheetid>
```

```
<loginhibit onsuccess="true"/>
```

```
<narrative>The path and name of the zip archive to open, specified as an absolute path</narrative>
```

```
<displayx>-195</displayx>
```

```
<displayy>-15</displayy>
```

```
<displaywidth>150</displaywidth>
```

```
<displayheight>30</displayheight>
```

```
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```
<datatype>text</datatype>
```

```
<initialvalue/>
```

```
<private/>
```

```
<alwaysinit/>
```

```
</stage>
```

```
<stage stageid="1141bb0a-b624-4b18-aff8-c9811f614f30" name="File Name" type="Data">
```

```
<subsheetid>09530b1d-93d7-49b4-9a7c-ff1f3e9c6b7e</subsheetid>
```

```
<loginhibit onsuccess="true"/>
```

```
<narrative>The file name (and its path within the zip archive if necessary) to delete</narrative>
```

<displayx>-195</displayx>

<displayy>30</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="0cd0782c-3296-4f6e-b34c-fc338a3936c3" name="Found" type="Data">

<subsheetsid>09530b1d-93d7-49b4-9a7c-ff1f3e9c6b7e</subsheetsid>

<loginhibit onsucces="true"/>

<narrative>True if the file exists in the Zip Archive file, otherwise False</narrative>

<displayx>-195</displayx>

<displayy>75</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="5445aaf9-872d-4e36-917e-236f24830f33" name="Start" type="Start">

<subsheetsid>09530b1d-93d7-49b4-9a7c-ff1f3e9c6b7e</subsheetsid>

<loginhibit onsucces="true"/>

```
<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Zip File Name" narrative="Mandatory: The path and name of the zip archive to o

<input type="text" name="File Name" narrative="Mandatory: The file name (and its path within the zip arch

</inputs>

<onsuccess>0418a4c1-99c5-45b7-bb82-cfce74f10de8</onsuccess>

</stage>

<stage stageid="3e0fb337-31e8-4c10-be19-ace7fc440e8a" name="Destination File Name" type="Data">

<subsheetid>ae2b448f-a968-4bda-a664-20a9149cb9dc</subsheetid>

<loginhibit onsuccess="true"/>

<narrative>The path and name of the added file as it will be stored in the zip file. Path can be specified a re

<displayx>-195</displayx>

<displayy>60</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>
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</process>

<process name="VB6 Big Grid" version="1.0" bpversion="7.2.0.1727" narrative="Big msflexgrid test object"

<appdef>

<element name="VB6 Controls">

<id>e4250a95-a3b4-4c1b-a150-bf63ceb5b761</id>

<element name="Main Window">

<id>a3ed6523-64f9-4bc4-a2e7-7e57da46eb37</id>

<type>Window</type>

<basetype>Window</basetype>

<datatype>text</datatype>

<diagnose>False</diagnose>

<attributes>

<attribute name="WindowText" inuse="True">

<ProcessValue datatype="text" value="VB6 Automated Test App"/>

</attribute>

<attribute name="ClassName" inuse="True">

<ProcessValue datatype="text" value="ThunderRT6FormDC"/>

</attribute>

<attribute name="X">

<ProcessValue datatype="number" value="44"/>

</attribute>

<attribute name="Y">

<ProcessValue datatype="number" value="58"/>

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<attribute name="Width">

<ProcessValue datatype="number" value="466"/>

</attribute>

```
<attribute name="Height">
<ProcessValue datatype="number" value="381"/>
</attribute>
<attribute name="Visible" inuse="True">
<ProcessValue datatype="flag" value="True"/>
</attribute>
<attribute name="Enabled" inuse="True">
<ProcessValue datatype="flag" value="True"/>
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<attribute name="Active">
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<ProcessValue datatype="number" value="1"/>
</attribute>
<attribute name="ChildCount">
<ProcessValue datatype="number" value="6"/>
</attribute>
</attributes>
</element>
<element name="ApexGrid">
<id>17c2f1d7-12c5-47f5-8c90-d5e0cac23e96</id>
<type>ApexGrid</type>
<basetype>ApexGrid</basetype>
<datatype>collection</datatype>
<diagnose>False</diagnose>
<attributes>
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<attribute name="WindowText">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="ClassName" inuse="True">

<ProcessValue datatype="text" value="ApexGrid.19"/>

</attribute>

<attribute name="CtrlID">

<ProcessValue datatype="text" value="0"/>

</attribute>

<attribute name="X">

<ProcessValue datatype="number" value="24"/>

</attribute>

<attribute name="Y">

<ProcessValue datatype="number" value="360"/>

</attribute>

<attribute name="Width">

<ProcessValue datatype="number" value="282"/>

</attribute>

<attribute name="Height">

<ProcessValue datatype="number" value="130"/>

</attribute>

<attribute name="Visible">

<ProcessValue datatype="text" value="True"/>

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<attribute name="Enabled">

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</attribute>
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</attribute>

<attribute name="Ordinal">

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</attribute>

<attribute name="ChildCount">

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</attribute>

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<ProcessValue datatype="text" value="VB6 Automated Test App"/>

</attribute>

<attribute name="pCtrlID">

<ProcessValue datatype="text" value="0"/>

</attribute>

<attribute name="pX">

<ProcessValue datatype="number" value="-253"/>

</attribute>

<attribute name="pY">

<ProcessValue datatype="number" value="-214"/>

</attribute>

<attribute name="pWidth">

<ProcessValue datatype="number" value="701"/>

</attribute>

<attribute name="pHeight">

<ProcessValue datatype="number" value="531"/>

</attribute>
```



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<attribute name="pOrdinal">
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</attribute>
<attribute name="pChildCount">
<ProcessValue datatype="number" value="15"/>
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</attributes>
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<element name="Flexgrid">
<id>5eae4a46-1829-460e-8969-531d7be517f4</id>
<type>MSFlexGrid</type>
<basetype>MSFlexGrid</basetype>
<datatype>collection</datatype>
<diagnose>False</diagnose>
<attributes>
<attribute name="WindowText">
<ProcessValue datatype="text" value=""/>
</attribute>
<attribute name="ClassName" inuse="True">
<ProcessValue datatype="text" value="MSFlexGridWndClass"/>
</attribute>
<attribute name="CtrlID">
<ProcessValue datatype="number" value="0"/>
</attribute>
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<attribute name="X">

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</attribute>

<attribute name="Y">

<ProcessValue datatype="number" value="240"/>

</attribute>

<attribute name="Width">

<ProcessValue datatype="number" value="362"/>

</attribute>

<attribute name="Height">

<ProcessValue datatype="number" value="90"/>

</attribute>

<attribute name="Visible" inuse="True">

<ProcessValue datatype="flag" value="True"/>

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<ProcessValue datatype="flag" value="True"/>

</attribute>

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<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Active">

<ProcessValue datatype="flag" value="False"/>

</attribute>

<attribute name="Ordinal">

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</attribute>

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</attribute>

<attribute name="pY">

<ProcessValue datatype="number" value="88"/>

</attribute>

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<ProcessValue datatype="number" value="531"/>

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<attribute name="pActive">

<ProcessValue datatype="flag" value="True"/>

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</attribute>
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<attribute name="pChildCount">
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</attribute>
</attributes>
</element>
<type>Application</type>
<basetype>Application</basetype>
<datatype>unknown</datatype>
<diagnose>False</diagnose>
</element>
<apptypeinfo>
<id>Win32Launch</id>
<parameters>
<parameter>
<name>Path</name>
<value>C:\BluePrism\QA\Code\VB6 App 3\VB6AutomatedTestApp.exe</value>
</parameter>
<parameter>
<name>CommandLineParams</name>
<value>300</value>
</parameter>
<parameter>
<name>WorkingDirectory</name>
<value>
</value>
</parameter>
<parameter>
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<name>NonInvasive</name>

<value>False</value>

</parameter>

<parameter>

<name>ProcessMode</name>

<value>Ext32bit</value>

</parameter>

<parameter>

<name>ExternalProcessTimeout</name>

<value>0</value>

</parameter>

<parameter>

<name>Options</name>

<value>

</value>

</parameter>

</parameters>

</apptypeinfo>

</appdef>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="5f45c088-6c82-4037-bb47-2dc25151bb0a" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="39bf39c2-048e-49d1-8499-6601a1745814" type="Normal" published="True">

<name>Launch</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="a86bb644-dd28-419c-abd3-dba7b7dae00d" type="Normal" published="True">

<name>Terminate</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="5839af8e-871e-4407-a40e-b230aaee79ce" type="Normal" published="True">

<name>Read MsFlexGrid</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<stage stageid="ce217320-2f18-43ba-8494-eb8e1e007691" name="Start" type="Start">

<loginhibit/>

<display x="15" y="-105"/>

<onsuccess>4a6fb64e-746c-4830-9129-7068c098d75a</onsuccess>

</stage>

<stage stageid="4a6fb64e-746c-4830-9129-7068c098d75a" name="End" type="End">

<loginhibit/>

<display x="15" y="90"/>

</stage>

<stage stageid="a3fa776e-3aef-40cf-9187-7babbcc29ba9" name="Stage1" type="ProcessInfo">

<display x="-195" y="-105" w="150" h="90"/>

<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

[illegible][illegible]

```
<import>System</import>
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<import>System</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

</stage>

<stage stageid="5ff85ab7-0c14-4e12-99f4-32589a524540" name="Clean Up" type="SubSheetInfo">

<subsheetsid>5f45c088-6c82-4037-bb47-2dc25151bb0a</subsheetsid>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="a4809dd1-651e-4603-93c1-9b52a89d7130" name="Start" type="Start">

<subsheetsid>5f45c088-6c82-4037-bb47-2dc25151bb0a</subsheetsid>

<loginhibit/>

<display x="15" y="-105"/>

<onsuccess>fea24c27-9dd6-4ada-ba19-0491832a459d</onsuccess>

</stage>

<stage stageid="fea24c27-9dd6-4ada-ba19-0491832a459d" name="End" type="End">

<subsheetsid>5f45c088-6c82-4037-bb47-2dc25151bb0a</subsheetsid>

<loginhibit/>

<display x="15" y="90"/>

</stage>

<stage stageid="289de0b6-e0c5-4771-8eb0-74392e9ded0b" name="Launch" type="SubSheetInfo">

<subsheetsid>39bf39c2-048e-49d1-8499-6601a1745814</subsheetsid>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="ecc14fe2-d5c9-473f-8e0c-aaed899cae02" name="Start" type="Start">

<subsheetsid>39bf39c2-048e-49d1-8499-6601a1745814</subsheetsid>

<loginhibit/>

<display x="15" y="-105"/>

<onsuccess>1a2c3a9a-b9d0-42ab-b0bc-15b454549de4</onsuccess>

</stage>

<stage stageid="32be968e-b95f-453a-b9ce-5c81a8265d72" name="End" type="End">

<subsheetsid>39bf39c2-048e-49d1-8499-6601a1745814</subsheetsid>

<loginhibit/>

<display x="0" y="15"/>

</stage>

<stage stageid="6f981412-9a8b-4c94-b883-7adcdd81c53f" name="new" type="Note">

<subsheetid>5f45c088-6c82-4037-bb47-2dc25151bb0a</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically by Automate immediately after closing your business object

You will not be able to call this action from a business process, nor will it be called at any other time than b

<display x="-180" y="60" w="180" h="230"/>

</stage>

<stage stageid="1c65dd31-6f31-4e61-b1c9-146f63528a42" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically by Automate immediately after loading your business objec

You will not be able to call this action from a business process, nor will it be called at any other time than a

<display x="-180" y="60" w="180" h="230"/>

</stage>

<stage stageid="1a2c3a9a-b9d0-42ab-b0bc-15b454549de4" name="Start Controls Form" type="Navigate">

<subsheetid>39bf39c2-048e-49d1-8499-6601a1745814</subsheetid>

<loginhibit/>

<display x="15" y="-45" w="90" h="30"/>

<onsuccess>dee799e7-b36a-4e90-a0e3-213b93d0eb75</onsuccess>

<step>

<element id="e4250a95-a3b4-4c1b-a150-bf63ceb5b761"/>

<action>

<id>Launch</id>

<arguments>

<argument>

<id>Path</id>

<value>[QA Root] & "\Code\VB6 App 3\VB6AutomatedTestApp.exe"</value>

</argument>

<argument>

<id>CommandLineParams</id>

<value>

</value>

</argument>

<argument>

<id>WorkingDirectory</id>

<value>

</value>

</argument>

<argument>

<id>NonInvasive</id>

<value>

</value>

</argument>

<argument>

<id>ProcessMode</id>

<value>

</value>

</argument>

<argument>

<id>Options</id>

<value>

</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="8bd3918a-e948-4992-b6f2-f41df976ff18" name="Time Out2" type="WaitEnd">

<subsheetid>39bf39c2-048e-49d1-8499-6601a1745814</subsheetid>

<loginhibit/>

<display x="135" y="90" w="30" h="30"/>

<onsuccess>eeb14d0f-750c-4e0a-ad95-881cb49587a0</onsuccess>

<groupid>f33db3aa-7f3c-42d1-9de3-a1a8a5e022bf</groupid>

</stage>

<stage stageid="dee799e7-b36a-4e90-a0e3-213b93d0eb75" name="Wait for window to appear" type="Wa

<subsheetid>39bf39c2-048e-49d1-8499-6601a1745814</subsheetid>

<loginhibit/>

<display x="135" y="-45" w="30" h="30"/>

```
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<groupid>f33db3aa-7f3c-42d1-9de3-a1a8a5e022bf</groupid>
<choices>
<choice reply="True">
<name>Main Window Check Exists</name>
<distance>67.5</distance>
<ontrue>32be968e-b95f-453a-b9ce-5c81a8265d72</ontrue>
<element id="a3ed6523-64f9-4bc4-a2e7-7e57da46eb37"/>
<condition>
<id>CheckExists</id>
</condition>
<comparetype>Equal</comparetype>
</choice>
</choices>
<timeout>25</timeout>
</stage>
<stage stageid="eeb14d0f-750c-4e0a-ad95-881cb49587a0" name="Note2" type="Note">
<subsheetid>39bf39c2-048e-49d1-8499-6601a1745814</subsheetid>
<loginhibit/>
<narrative>App didn't launch within 50 secs</narrative>
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</stage>
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<subsheetid>a86bb644-dd28-419c-abd3-dba7b7dae00d</subsheetid>
<display x="-195" y="-105" w="150" h="90"/>
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<stage stageid="7bcb43b4-9e12-455f-9f6c-6537514e6bd7" name="Start" type="Start">

<subsheetid>a86bb644-dd28-419c-abd3-dba7b7dae00d</subsheetid>

<loginhibit/>

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<onsuccess>6deda559-8fea-48d2-993d-3f07ff1fff5e</onsuccess>

</stage>

<stage stageid="f1b7c3c5-df47-4268-bcbc-e0b4ba2dfa57" name="End" type="End">

<subsheetid>a86bb644-dd28-419c-abd3-dba7b7dae00d</subsheetid>

<loginhibit/>

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</stage>

<stage stageid="6deda559-8fea-48d2-993d-3f07ff1fff5e" name="Terminate" type="Navigate">

<subsheetid>a86bb644-dd28-419c-abd3-dba7b7dae00d</subsheetid>

<loginhibit/>

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<onsuccess>f1b7c3c5-df47-4268-bcbc-e0b4ba2dfa57</onsuccess>

<step>

<element id="e4250a95-a3b4-4c1b-a150-bf63ceb5b761"/>

<action>

<id>Terminate</id>

</action>

</step>

</stage>
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<stage stageid="d5858454-630e-401c-b3e5-11f27bfc9c29" name="Read MsFlexGrid" type="SubSheetInfo">
  <subsheetsid>5839af8e-871e-4407-a40e-b230aaee79ce</subsheetsid>
  <narrative>Reads the entire contents of the ApexGrid control, returning the result as a collection.</narrative>
  <display x="-195" y="-105" w="150" h="90"/>
  <font family="Tahoma" size="10" style="Regular" color="000000"/>
</stage>

<stage stageid="161b2779-77a7-4f70-a42b-1cac297d09d7" name="Start" type="Start">
  <subsheetsid>5839af8e-871e-4407-a40e-b230aaee79ce</subsheetsid>
  <loginhibit/>
  <preconditions>
    <condition narrative=""/>
  </preconditions>
  <display x="15" y="-105"/>
  <font family="Tahoma" size="10" style="Regular" color="000000"/>
  <onsuccess>3f286f06-c3ec-4265-878b-5b1bd25520ab</onsuccess>
</stage>

<stage stageid="fde66d48-3caf-4447-bc89-2dd6744effb3" name="End" type="End">
  <subsheetsid>5839af8e-871e-4407-a40e-b230aaee79ce</subsheetsid>
  <loginhibit/>
  <display x="15" y="90"/>
  <font family="Tahoma" size="10" style="Regular" color="000000"/>
  <outputs>
    <output type="collection" name="Contents" stage="Contents"/>
  </outputs>
</stage>

<stage stageid="562d6963-4544-4b01-b011-9aac1bd7a6a7" name="Contents" type="Collection">
  <subsheetsid>5839af8e-871e-4407-a40e-b230aaee79ce</subsheetsid>
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<loginhibit/>

<display x="195" y="75"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

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<stage stageid="3f286f06-c3ec-4265-878b-5b1bd25520ab" name="Read Grid" type="Read">

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<step stage="Contents">

<element id="5eae4a46-1829-460e-8969-531d7be517f4"/>

<action>

<id>GetAllItems</id>

</action>

</step>

</stage>

<stage stageid="268c9f3c-c95d-46f8-99bf-ec0bbde73595" name="QA Root" type="Data">

<subsheetsid>39bf39c2-048e-49d1-8499-6601a1745814</subsheetsid>

<loginhibit/>

<display x="-210" y="-15" w="150" h="30"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve">H:\automate\qa</initialvalue>

<exposure>Environment</exposure>

<private/>

<alwaysinit/>

</stage>

</process>

<process name="VB6 Toolbar Test Object" version="1.0" bpversion="6.4.0.6747" narrative="See Bug 3874">

<appdef>

<element name="Toolbar">

<id>92fe371c-5a0b-48e5-a342-3f8dee02c6ac</id>

<element name="Toolbar">

<id>b96b6bb3-0762-4f27-8c73-90889a94e105</id>

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<attribute name="WindowText" inuse="True">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="ClassName" inuse="True">

<ProcessValue datatype="text" value="msvb_lib_toolbar"/>

</attribute>

<attribute name="CtrlID">

<ProcessValue datatype="number" value="0"/>

</attribute>

<attribute name="X">

<ProcessValue datatype="number" value="0"/>

</attribute>

<attribute name="Y">

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<ProcessValue datatype="number" value="507"/>

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<attribute name="Height">

<ProcessValue datatype="number" value="41"/>

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<ProcessValue datatype="flag" value="True"/>

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<attribute name="pX">

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<attribute name="pY">

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<element name="Popup Window">

<id>255be120-de4d-4bc8-8eab-dada182e219c</id>

<element name="Inner Label">

<id>59c8166f-0245-433f-8a44-5ab0daf57451</id>

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<datatype>text</datatype>

<diagnose>False</diagnose>

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<ProcessValue datatype="text" value="Project1"/>
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```

```
<attribute name="pCtrlID">
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</attribute>
<attribute name="pX">
<ProcessValue datatype="number" value="554"/>
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<attribute name="pY">
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<attribute name="pHeight">
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<ProcessValue datatype="flag" value="True"/>
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<attribute name="pOrdinal">
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</attribute>
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</attributes>
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<element name="OK Button">
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<id>d0b5cbfe-ab2a-4715-8c85-2dbef7fae62b</id>

<type>Button</type>

<basetype>Button</basetype>

<datatype>text</datatype>

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</attribute>

<attribute name="CtrlID">

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</attribute>

<attribute name="X">

<ProcessValue datatype="number" value="48"/>

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<attribute name="Y">

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<ProcessValue datatype="number" value="554"/>
</attribute>
```

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</attribute>
<attribute name="pHeight">
<ProcessValue datatype="number" value="101"/>
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</attribute>

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</attribute>

<attribute name="Height">

<ProcessValue datatype="number" value="101"/>

</attribute>

<attribute name="Visible" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

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<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Enabled" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Active">

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</attribute>

<attribute name="ChildCount">

<ProcessValue datatype="number" value="2"/>

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</attributes>

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<apptypeinfo>

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<parameters>

<parameter>

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<value>c:\BluePrism\qa\code\VBToolbar\VBToolbar.exe</value>

</parameter>

<parameter>

<name>CommandLineParams</name>

<value>

</value>

</parameter>

<parameter>

<name>WorkingDirectory</name>

</parameter>

<parameter>

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<value>True</value>

</parameter>

<parameter>

<name>ProcessMode</name>

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</parameter>

<parameter>

<name>ExternalProcessTimeout</name>

<value>0</value>

</parameter>

<parameter>

<name>Options</name>

</parameter>

</parameters>

</apptypeinfo>

</appdef>

<view>

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<zoom version="2">1.25</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="30c3bbad-c0f2-47ae-81b9-7e9bd1ace4ee" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="74949473-0a0f-4dec-a871-3ac907c08ab4" type="Normal" published="True">

<name>Launch</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="4e2dc503-5198-4441-a02e-17169bcb9f67" type="Normal" published="True">

<name>Run Tests</name>

<view>

<camerax>150</camerax>

<cameray>315</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<loginhibit/>

<narrative>

</narrative>

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</stage>
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```
<stage stageid="38b92afc-8a35-4f61-b2d4-bc6eb1656cf0" name="End" type="End">

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

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<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

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<import>System.Drawing</import>

</imports>

<language>visualbasic</language>

<globalcode>

</globalcode>

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<stage stageid="b5c3dc0f-dbde-4d93-8cf1-26ea653dc013" name="Clean Up" type="SubSheetInfo">

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</narrative>

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<loginhibit/>

<narrative>

</narrative>

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<onsuccess>f9fcfd59-97c1-470c-b631-efbe05aba251</onsuccess>

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<subsheetid>30c3bbad-c0f2-47ae-81b9-7e9bd1ace4ee</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="b19e3271-857d-474f-85f3-5154ea4800d0" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

```
<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="257ce0e6-b86e-4d37-8441-fb6063e45ab2" name="Click Button" type="Navigate">

<subsheetid>4e2dc503-5198-4441-a02e-17169bcb9f67</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

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<onsuccess>e429a27b-23a7-4457-8c02-4f82df9f93a7</onsuccess>

<step>

<element id="b96b6bb3-0762-4f27-8c73-90889a94e105"/>

<action>

<id>ClickToolbarButton</id>

<arguments>

<argument>

<id>position</id>

<value>[Button Index]</value>

</argument>

</arguments>
```



```
</action>

</step>

</stage>

<stage stageid="760e60b9-d515-4914-b490-df246b89c50f" name="Read Booleans" type="Read">

<subsheetid>4e2dc503-5198-4441-a02e-17169bcb9f67</subsheetid>

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<displayy>-90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>fbf31cee-b790-424d-9135-c59b606844f2</onsuccess>

<step stage="Pressed">

<element id="b96b6bb3-0762-4f27-8c73-90889a94e105"/>

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<id>IsToolbarButtonPressed</id>

<arguments>

<argument>

<id>position</id>

<value>1</value>

</argument>

</arguments>

</action>

</step>

<step stage="Enabled">
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<element id="b96b6bb3-0762-4f27-8c73-90889a94e105"/>

<action>

<id>IsToolBarButtonEnabled</id>

<arguments>

<argument>

<id>position</id>

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</action>

</step>

<step stage="Checked">

<element id="b96b6bb3-0762-4f27-8c73-90889a94e105"/>

<action>

<id>IsToolBarButtonChecked</id>

<arguments>

<argument>

<id>position</id>

<value>1</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="952e9feb-d116-4675-a1b5-618c03552024" name="Pressed" type="Data">

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<narrative>

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</narrative>

<displayx>-240</displayx>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="8b0557cd-8c1d-4459-90f6-632894e87c25" name="Enabled" type="Data">

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<stage stageid="f9fcfd59-97c1-470c-b631-efbe05aba251" name="Count Items" type="Read">

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<onsuccess>f923e1ff-8b60-4e52-808e-57bfebf1595d</onsuccess>

<step stage="Item Count">

<element id="b96b6bb3-0762-4f27-8c73-90889a94e105"/>

<action>

<id>GetItemCount</id>
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</action>

</step>

</stage>

<stage stageid="0a38d25d-fa00-4ff0-8460-f01ebff54953" name="Item Count" type="Data">

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<stage stageid="f923e1ff-8b60-4e52-808e-57bfebf1595d" name="Verify Item Count" type="Decision">

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</narrative>

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<decision expression="[Item Count] = 3"/>
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<onfalse>9f4e8ffc-322f-4e6f-8af1-f3a02946cb33</onfalse>
</stage>
<stage stageid="9f4e8ffc-322f-4e6f-8af1-f3a02946cb33" name="Note1" type="Note">
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</stage>
<stage stageid="fbf31cee-b790-424d-9135-c59b606844f2" name="Verify Booleans" type="Decision">
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<decision expression="([Checked] = False) and ([Pressed] = False) and ([Enabled] = True)"/>
<ontrue>0a528561-f7d4-4455-9705-4ddc6a07a6c4</ontrue>
<onfalse>d4d576f2-51b8-434c-8320-3cf16100facb</onfalse>

</stage>

<stage stageid="d4d576f2-51b8-434c-8320-3cf16100facb" name="Note1" type="Note">

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<stage stageid="60059918-465c-4ce7-8363-ab33254309b5" name="Time Out1" type="WaitEnd">

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<loginhibit/>

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<groupid>eb8d7d80-f2f8-4475-afca-3fe10b2cdc88</groupid>

</stage>

<stage stageid="e429a27b-23a7-4457-8c02-4f82df9f93a7" name="Wait for Popup" type="WaitStart">

<subsheetid>4e2dc503-5198-4441-a02e-17169bcb9f67</subsheetid>

<loginhibit/>

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<groupid>eb8d7d80-f2f8-4475-afca-3fe10b2cdc88</groupid>

<choices>

<choice reply="True">

<name>Popup Window Check Exists</name>

<distance>90</distance>

<ontrue>6e15f059-1636-4493-ab56-60445051ad07</ontrue>

<element id="255be120-de4d-4bc8-8eab-dada182e219c"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>5</timeout>

</stage>

<stage stageid="6e15f059-1636-4493-ab56-60445051ad07" name="Get Popup Text" type="Read">

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<step stage="Label Text">

<element id="59c8166f-0245-433f-8a44-5ab0daf57451">

<elementparameter>

<name>WindowText</name>

<expression>"hey*"</expression>

<datatype>text</datatype>

<comparisontype>Wildcard</comparisontype>

</elementparameter>

</element>

<action>

<id>GetWindowText</id>

</action>

</step>

</stage>

<stage stageid="8164f7ab-ded6-46f7-ba9e-26447f4a398b" name="Label Text" type="Data">

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<alwaysinit/>
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</narrative>
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<displayheight>30</displayheight>
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<decision expression="EndsWith([Label Text], [Button Index])"/>
<ontrue>e1b93342-a509-44a1-8bdc-951b1e035416</ontrue>
<onfalse>3652c5c3-0503-47d5-99e4-6ea35423ad86</onfalse>
</stage>
<stage stageid="b3dca9e7-2f05-4335-92e0-9e831d5d9a03" name="Button Index" type="Data">
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<alwaysinit/>

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<subsheetid>4e2dc503-5198-4441-a02e-17169bcb9f67</subsheetid>

<loginhibit/>

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<decision expression="[Button Index] = 3"/>

<ontrue>55487d2b-5e77-4f5f-80af-5a9f59478452</ontrue>

<onfalse>07d6e72b-8899-4ef5-85d0-2bc00c677317</onfalse>

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</narrative>
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</stage>

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<displaywidth>10</displaywidth>

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</stage>

<stage stageid="0a528561-f7d4-4455-9705-4ddc6a07a6c4" name="Increment Button Index" type="Calcula

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<loginhibit/>

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</narrative>

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<onsuccess>257ce0e6-b86e-4d37-8441-fb6063e45ab2</onsuccess>

<calculation expression="1 + [Button Index]" stage="Button Index"/>

</stage>

<stage stageid="bdd7b503-2d1a-46a9-a16d-4437976d107b" name="Launch" type="SubSheetInfo">

<subsheetsid>74949473-0a0f-4dec-a871-3ac907c08ab4</subsheetsid>

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</stage>

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<subsheetsid>74949473-0a0f-4dec-a871-3ac907c08ab4</subsheetsid>

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<stage stageid="1b9854f5-b961-4d2b-8c5b-503dc29cb220" name="End" type="End">

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<step>

<element id="92fe371c-5a0b-48e5-a342-3f8dee02c6ac"/>

<action>

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<arguments>

<argument>

<id>Path</id>

<value>[QA Root] & "&code\VBToolbar\VBToolbar.exe"</value>

</argument>

<argument>

<id>CommandLineParams</id>

<value>

</value>

</argument>

<argument>

<id>WorkingDirectory</id>

<value>

</value>

</argument>

<argument>

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<value>

</value>

</argument>

<argument>

<id>ProcessMode</id>

<value>

</value>

</argument>

<argument>

<id>Options</id>

<value>

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</arguments>

</action>

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<stage stageid="af158245-69de-4847-bf7f-50ff44cf493e" name="Time Out2" type="WaitEnd">

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</stage>

<stage stageid="f77c3304-b4aa-433f-8f7e-23b8d4f1e68f" name="Wait for Toolbar" type="WaitStart">

<subsheetid>74949473-0a0f-4dec-a871-3ac907c08ab4</subsheetid>

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<choices>

<choice reply="True">

<name>Toolbar Check Exists</name>

<distance>60</distance>

<ontrue>1b9854f5-b961-4d2b-8c5b-503dc29cb220</ontrue>

<element id="b96b6bb3-0762-4f27-8c73-90889a94e105"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>5</timeout>

</stage>

<stage stageid="729eb01f-3451-40d1-9882-cd125fe2befa" name="Terminate" type="Navigate">

<subsheetid>30c3bbad-c0f2-47ae-81b9-7e9bd1ace4ee</subsheetid>

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<element id="92fe371c-5a0b-48e5-a342-3f8dee02c6ac"/>

<action>

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</action>

</step>

</stage>

<stage stageid="e1b93342-a509-44a1-8bdc-951b1e035416" name="Click OK" type="Navigate">

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<action>

<id>Press</id>

</action>

</step>

</stage>

<stage stageid="3652c5c3-0503-47d5-99e4-6ea35423ad86" name="Note1" type="Note">

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</stage>

</process>

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<element name="text">
<id>e31b1e66-d028-491f-a957-711be1bf5885</id>
<type>Edit</type>
<basetype>Edit</basetype>
<datatype>text</datatype>
<diagnose>False</diagnose>
<attributes>
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<attribute name="ClassName" inuse="True">
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<attribute name="Active">
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<attribute name="ChildCount">
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<attribute name="ScreenBounds">

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</attribute>

<attribute name="Style">

<ProcessValue datatype="number" value="1345323268"/>

</attribute>

<attribute name="pWindowText">

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</attribute>

<attribute name="pClassName">

<ProcessValue datatype="text" value="Notepad"/>

</attribute>

<attribute name="pCtrlID">

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<attribute name="pX">

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<attribute name="pY">

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</attribute>

</attributes>

</element>

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<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

<apptypeinfo>

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<parameters>

<parameter>

<name>Path</name>

<value>C:\Windows\notepad.exe</value>

</parameter>

<parameter>

<name>CommandLineParams</name>

<value>

</value>

</parameter>

<parameter>

<name>WorkingDirectory</name>

<value>

</value>

</parameter>
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<parameter>

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</parameter>

<parameter>

<name>ProcessMode</name>

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</parameter>

<parameter>

<name>ExternalProcessTimeout</name>

<value>0</value>

</parameter>

<parameter>

<name>Options</name>

<value>

</value>

</parameter>

</parameters>

</apptypeinfo>

</appdef>

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</view>

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<endpoint narrative=""/>

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<reference>System.Data.dll</reference>

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<reference>System.Drawing.dll</reference>

</references>

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<import>System</import>

<import>System.Drawing</import>

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<import>System.Data</import>

</imports>

<language>visualbasic</language>

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<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

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</stage>

<stage stageid="9f88cec2-856f-4cdc-8081-5dec76d96aa6" name="Note2" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business object is loaded.

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than after the business object is loaded.

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</view>

<preconditions/>

<endpoint narrative=""/>

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</view>

</subsheet>

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<stage stageid="8c397733-b710-4a89-889b-9511e089f923" name="End" type="End">

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<reference>System.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

```
<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

</imports>

<language>visualbasic</language>

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<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

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</stage>
<stage stageid="9a717181-b076-4548-ad9a-1dea36ba3a7f" name="Note2" type="Note">
<narrative>Initialise Page
```

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

```
<displayx>-180</displayx>
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</parameter>

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</parameters>

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</appdef>

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</view>

<preconditions/>

<endpoint narrative=""/>

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<name>Clean Up</name>

<view>

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</subsheet>

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<zoom version="2">1.25</zoom>

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<stage stageid="d4a7e5e3-62b3-4e13-8639-d2ef359a1d7b" name="End" type="End">

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<references>

<reference>System.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

</imports>

<language>visualbasic</language>
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<subsheetsid>a8d384f2-1dfb-46bc-aacb-108c74e40adc</subsheetsid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

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</stage>

<stage stageid="d581f6d0-ae34-4b0e-abab-09d8a8acdf69" name="Note2" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

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<basetype>Edit</basetype>

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</attribute>

<attribute name="Height">

<ProcessValue datatype="number" value="540"/>

</attribute>

<attribute name="Visible" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="ScreenVisible" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Enabled" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Active">

<ProcessValue datatype="flag" value="False"/>

</attribute>

<attribute name="Ordinal">

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</attribute>

<attribute name="ChildCount">

<ProcessValue datatype="number" value="0"/>

</attribute>

<attribute name="AncestorsText">

<ProcessValue datatype="text" value="Untitled - Notepad <UNKNOWN> "/>

</attribute>

<attribute name="AncestorCount">

<ProcessValue datatype="number" value="2"/>

</attribute>

<attribute name="TypeName">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="ScreenBounds">

<ProcessValue datatype="text" value="RECT:203,913,1435,1550"/>

</attribute>

<attribute name="Style">

<ProcessValue datatype="number" value="1345323268"/>

</attribute>

<attribute name="pWindowText">

<ProcessValue datatype="text" value="Untitled - Notepad"/>

</attribute>

<attribute name="pClassName">

<ProcessValue datatype="text" value="Notepad"/>

</attribute>

<attribute name="pCtrlID">

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</attribute>

<attribute name="pX">

<ProcessValue datatype="number" value="195"/>

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<attribute name="pY">

<ProcessValue datatype="number" value="862"/>

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<attribute name="pWidth">

<ProcessValue datatype="number" value="1381"/>

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<attribute name="pVisible">

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<attribute name="pScreenVisible">

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<attribute name="pEnabled">

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</attribute>

<attribute name="pActive">

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</attribute>

<attribute name="pChildCount">

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<attribute name="pStyle">

<ProcessValue datatype="number" value="1345323268"/>

</attribute>

<attribute name="MatchIndex">

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<attribute name="MatchReverse">

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</attribute>

</attributes>

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<type>Application</type>

<basetype>Application</basetype>
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</element>

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<id>Win32Launch</id>

<parameters>

<parameter>

<name>Path</name>

<value>c:\windows\notepad.exe</value>

</parameter>

<parameter>

<name>CommandLineParams</name>

<value>

</value>

</parameter>

<parameter>

<name>WorkingDirectory</name>

<value>

</value>

</parameter>

<parameter>

<name>NonInvasive</name>

<value>True</value>

</parameter>

<parameter>

<name>ProcessMode</name>

<value>Internal</value>

</parameter>

<parameter>

<name>ExternalProcessTimeout</name>

<value>0</value>

</parameter>

<parameter>

<name>Options</name>

<value>

</value>

</parameter>

</parameters>

</apptypeinfo>

</appdef>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

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<name>Clean Up</name>

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<zoom version="2">1.25</zoom>

</view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

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</narrative>

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</stage>

<stage stageid="690e049b-2dc7-4e7b-a4e1-63c5b34e2e32" name="End" type="End">

<loginhibit/>

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</narrative>

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<references>

<reference>System.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

</stage>

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<stage stageid="ca389ba8-2764-40b5-b084-d00f8394d104" name="Note1" type="Note">

<subsheetid>435e33ec-a069-400c-a4f9-f3e60750a836</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="3b9c7aa3-41cb-4819-b570-8e1fc00e11bb" name="Note2" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business object

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

</process>

<process name="Wait" version="1.0" bpversion="6.0.0.0" narrative="" byrefcollection="true" type="object" r

<appdef>

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<id>407557f7-f4b6-46e8-84e7-e7df623dd8ed</id>

<type>Application</type>

<basetype>Application</basetype>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

</appdef>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="3e75179e-60b1-42c8-b954-72f031e1f5b2" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="90967f9b-6786-4aee-b48e-b95902cdd9ff" type="Normal" published="True">

<name>Wait</name>

<view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<stage stageid="87c8a42c-520a-457b-96a7-0be903c938a9" name="Start" type="Start">

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<narrative>

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<references>

<reference>System.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

</stage>

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<inputs>

<input type="number" name="Seconds" stage="Wait seconds"/>

</inputs>

<onsuccess>8db9867e-0896-4fa4-876a-a95f8f2226cd</onsuccess>

</stage>

<stage stageid="1240e7b5-5db5-4729-8875-2126b297ee02" name="End" type="End">

<subsheetid>90967f9b-6786-4aee-b48e-b95902cdd9ff</subsheetid>

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<font family="Segoe UI" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="1a32c6ac-4a50-494b-a134-304f457330b5" name="Note1" type="Note">

<subsheetid>3e75179e-60b1-42c8-b954-72f031e1f5b2</subsheetid>

<narrative>Clean Up Page
```

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="d63eff56-29bf-47eb-9356-d93095c2bcaa" name="Note2" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="8d695665-66b1-455f-8476-2eb55b9d3cd6" name="Time Out1" type="WaitEnd">

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<narrative>

</narrative>

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<displayy>30</displayy>

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<displayheight>30</displayheight>

<onsuccess>1240e7b5-5db5-4729-8875-2126b297ee02</onsuccess>

<groupid>d60b883d-4cb8-4ac1-9bdd-d1fd66a55f7c</groupid>

</stage>

<stage stageid="8db9867e-0896-4fa4-876a-a95f8f2226cd" name="Wait1" type="WaitStart">

<subsHEETid>90967f9b-6786-4aee-b48e-b95902cdd9ff</subsHEETid>

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<groupid>d60b883d-4cb8-4ac1-9bdd-d1fd66a55f7c</groupid>

<choices/>

<timeout>[Wait seconds]</timeout>

</stage>

<stage stageid="8a914ea9-b67a-4c74-af89-f331481882f4" name="Wait seconds" type="Data">

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</narrative>

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<alwaysinit/>

</stage>

</process>

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<appdef>

<element name="Web API">

<id>5398aced-f18d-44ba-8e49-e5438af5d2ad</id>

<group name="Element1">

<id>52e9e4a1-5745-43d9-94a6-cfe3bf722f7d</id>

</group>

<type>Application</type>

<basetype>Application</basetype>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>
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<id>Win32Launch</id>

<parameters>

<parameter>

<name>Path</name>

<value>C:\BluePrism\qacontrol\qa\Code\Web API\SelfHost\bin\Debug\SelfHost.exe</value>

</parameter>

<parameter>

<name>CommandLineParams</name>

<value>

</value>

</parameter>

<parameter>

<name>WorkingDirectory</name>

<value>

</value>

</parameter>

<parameter>

<name>NonInvasive</name>

<value>True</value>

</parameter>

<parameter>

<name>ProcessMode</name>

<value>Internal</value>

</parameter>

<parameter>

<name>ExternalProcessTimeout</name>

<value>0</value>

</parameter>

<parameter>

<name>Options</name>

<value>

</value>

</parameter>

</parameters>

</apptypeinfo>

</appdef>

<view>

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<zoom version="2">1.25</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="f3efd936-1225-4442-ab12-af1228708dfb" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="c3995b9e-d94e-41b9-9074-14dbdb4c142c" type="Normal" published="True">

<name>Launch</name>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<narrative>

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<onsuccess>5dd06d07-2afd-4109-a67e-c1e2caf47825</onsuccess>

</stage>

<stage stageid="5dd06d07-2afd-4109-a67e-c1e2caf47825" name="End" type="End">

<loginhibit/>

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</stage>

<stage stageid="8fae9fda-541e-46ea-8f63-1f02bcd2b204" name="Stage1" type="ProcessInfo">

<narrative>

</narrative>

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<references>

<reference>System.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Diagnostics</import>

<import>System.Runtime.InteropServices</import>

</imports>

<language>csharp</language>

<globalcode></globalcode>

<code>private Process m_WebAPI;

[DllImport("kernel32.dll")]

static extern int GetSystemDefaultLCID();</code>

</stage>

<stage stageid="ecd52996-d2c2-4fa2-8838-8801436c8f20" name="Clean Up" type="SubSheetInfo">

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<onsuccess>6049a8cb-d6b3-4563-99e0-4d971b8cd5a5</onsuccess>

</stage>

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<stage stageid="4eb1353b-1c03-4139-88e9-0bfb11e057a0" name="Start" type="Start">

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<loginhibit/>

<narrative>

</narrative>

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<displayy>-105</displayy>
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 <onsuccess>e631f247-e185-49b6-8280-61cc3cc7bf18</onsuccess>
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 <stage stageid="5cfbd376-1fdc-46ac-8c7b-67fc03609de1" name="End" type="End">
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 <loginhibit/>
 <narrative>
 </narrative>
 <displayx>15</displayx>
 <displayy>30</displayy>
 <displaywidth>60</displaywidth>
 <displayheight>30</displayheight>

 <outputs>
 <output type="number" name="PID" narrative="The PID of the program." stage="PID"/>
 </outputs>
 </stage>
 <stage stageid="dabc3e58-2588-4883-a0ec-12d4b57c7ce7" name="Note1" type="Note">
 <subsheetsid>f3efd936-1225-4442-ab12-af1228708dfb</subsheetsid>
 <narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

```
<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="a2a0c492-6a6f-4fe4-9fb7-7e8113041e34" name="Note2" type="Note">

<narrative>Initialise Page
```

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

```
<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

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<stage stageid="7a185c98-36bf-4035-a7d6-444572c3393f" name="Terminate" type="SubSheetInfo">

<subsheetid>347ba102-894d-48e1-876b-e4b94cfa4812</subsheetid>

<narrative>

</narrative>

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```

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</stage>

<stage stageid="96793143-7cec-4302-86ba-544df023645d" name="Start" type="Start">

<subsheetid>347ba102-894d-48e1-876b-e4b94cfa4812</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="number" name="PID" narrative="The PID of the process you want to kill." stage="PID"/>

</inputs>

<onsuccess>49d771b6-fd35-444f-b99e-9a05f105bd37</onsuccess>

</stage>

<stage stageid="c90b7ba1-1a3e-4226-b33d-da98d705c083" name="End" type="End">

<subsheetid>347ba102-894d-48e1-876b-e4b94cfa4812</subsheetid>

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<stage stageid="e631f247-e185-49b6-8280-61cc3cc7bf18" name="Launch" type="Code">

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<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="QARoot" expr="[QA Root]"/>

</inputs>

<outputs>

<output type="number" name="PID" stage="PID"/>

<output type="text" name="path" stage="Path"/>

</outputs>

<onsuccess>fb5302fb-6215-45d3-832e-3ee2613bc3b3</onsuccess>

<code>String s = QARoot + @"\\Code\\Web API\\SelfHost\\bin\\Release\\SelfHost.exe";

path = s;

PID = Process.Start(s).Id;

</code>

</stage>

<stage stageid="49d771b6-fd35-444f-b99e-9a05f105bd37" name="Terminate" type="Code">

<subsheetid>347ba102-894d-48e1-876b-e4b94cfa4812</subsheetid>

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<narrative>

</narrative>

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<displayy>-60</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="number" name="PID" expr="[PID]"/>

</inputs>

<onsuccess>c90b7ba1-1a3e-4226-b33d-da98d705c083</onsuccess>

<code>Process p = Process.GetProcessById((int)PID);

p.Kill();</code>

</stage>

<stage stageid="d016d7ee-b2f3-41dc-b23d-1117b5a5d5a8" name="PID" type="Data">

<subsheetid>c3995b9e-d94e-41b9-9074-14dbdb4c142c</subsheetid>

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<stage stageid="3f60c73d-38ef-46c6-af61-759a228df91a" name="PID" type="Data">

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<private/>

<alwaysinit/>

</stage>

<stage stageid="f38f624b-108f-4967-a4df-943f2eb1948b" name="Output Variable" type="Block">

<subsheetid>c3995b9e-d94e-41b9-9074-14dbdb4c142c</subsheetid>

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<narrative>

</narrative>

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</stage>

<stage stageid="fb36349c-9ac8-4bf7-92c1-ecd62150bd44" name="Input Variable" type="Block">

<subsheetid>347ba102-894d-48e1-876b-e4b94cfa4812</subsheetid>

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</stage>

<stage stageid="236d620a-97e7-41a1-a39a-c960b6e97080" name="PAUSE" type="WaitEnd">

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<onsuccess>5cfbd376-1fdc-46ac-8c7b-67fc03609de1</onsuccess>

<groupid>c611a317-91da-4242-9c82-ea91106eccd8</groupid>

</stage>

<stage stageid="fb5302fb-6215-45d3-832e-3ee2613bc3b3" name="PAUSE" type="WaitStart">

<subsheetid>c3995b9e-d94e-41b9-9074-14dbdb4c142c</subsheetid>
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<narrative>

</narrative>

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<groupid>c611a317-91da-4242-9c82-ea91106eccd8</groupid>

<choices/>

<timeout>2</timeout>

</stage>

<stage stageid="ce6378fe-9588-4248-8b91-a67174c145d2" name="QA Root" type="Data">

<subsheetsid>c3995b9e-d94e-41b9-9074-14dbdb4c142c</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-120</displayx>

<displayy>15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue xml:space="preserve">C:\BluePrism\qacontrol\qa</initialvalue>

<exposure>Environment</exposure>

<private/>

<alwaysinit/>

```
</stage>

<stage stageid="dabf8d5b-8bff-413b-a1a0-90d6f4524037" name="Input Variable" type="Block">

<subsheetid>c3995b9e-d94e-41b9-9074-14dbdb4c142c</subsheetid>

<loginhibit/>

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<font family="Segoe UI" size="10" style="Regular" color="7FB2E5"/>

</stage>

<stage stageid="84de96be-b249-4586-8cea-e8d801f9392b" name="Path" type="Data">

<subsheetid>c3995b9e-d94e-41b9-9074-14dbdb4c142c</subsheetid>

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</narrative>

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<displaywidth>60</displaywidth>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

</process>
```

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<process name="WebServiceInputsOutputs" version="1.0" narrative="Testing inputs and outputs across al
<appdef>
<element name="Application Root">
<id>6cb77e51-8a14-4962-9f22-5416d2d0b5e8</id>
<type>Application</type>
<basetype>Application</basetype>
<datatype>unknown</datatype>
<diagnose>False</diagnose>
</element>
</appdef>
<view>
<camerax>0</camerax>
<cameray>0</cameray>
<zoom>1</zoom>
</view>
<preconditions/>
<endpoint narrative=""/>
<subsheet subsheetid="a7af269f-5fee-49bd-95ea-39961565d3d7" type="CleanUp" published="True">
<name>Clean Up</name>
<view>
<camerax>0</camerax>
<cameray>0</cameray>
<zoom>1</zoom>
</view>
</subsheet>
<subsheet subsheetid="0d51072d-bc40-4160-84da-ee80c9b9ee3d" type="Normal" published="True">
<name>Inputs Only</name>
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<view>

<camerax>0</camerax>

<cameray>25</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="d5a21d41-0f3a-49f6-abe3-a44dc6e09897" type="Normal" published="True">

<name>Outputs Only</name>

<view>

<camerax>0</camerax>

<cameray>69</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="4cf48d4c-77fb-4475-8236-95b75684e73f" type="Normal" published="True">

<name>Inputs and Outputs</name>

<view>

<camerax>0</camerax>

<cameray>-13</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="654e72c6-0792-4915-9f5e-91d7568b5e41" type="Normal" published="True">

<name>Collection Out</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

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<onsuccess>46fb182d-3a3d-4883-8aae-89d105627942</onsuccess>

</stage>

<stage stageid="46fb182d-3a3d-4883-8aae-89d105627942" name="End" type="End">

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="946aabe6-f115-4785-ae7-e96b49ab3587" name="Stage1" type="ProcessInfo">

<narrative>

</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

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<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

</imports>

<language>visualbasic</language>

<globalcode>

</globalcode>

<code>

</code>

</stage>

<stage stageid="458387e1-7d4d-43a6-b29c-430856b21a86" name="Clean Up" type="SubSheetInfo">

<subsheetsid>a7af269f-5fee-49bd-95ea-39961565d3d7</subsheetsid>

<narrative>

</narrative>

<displayx>-195</displayx>
```



```
<displayy>-105</displayy>

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</stage>

<stage stageid="3bb3e354-dcaa-4c47-af5d-3490c4bdc3b1" name="Start" type="Start">

<subsheetsid>a7af269f-5fee-49bd-95ea-39961565d3d7</subsheetsid>

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<onsuccess>0c662000-0ea1-4833-b82a-d1c888b762ee</onsuccess>

</stage>

<stage stageid="0c662000-0ea1-4833-b82a-d1c888b762ee" name="End" type="End">

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</stage>

<stage stageid="6f7247af-d4f3-4a4d-a149-1bcbfe35a711" name="Inputs Only" type="SubSheetInfo">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>Tests that inputs are successfully received, and that values match those expected.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="2cd40514-4158-4107-ac0d-51bc3a5cee3b" name="Start" type="Start">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<preconditions>

<condition narrative="No inputs may be left blank. The following values should be supplied:"/>

<condition narrative="Test Text - Banana"/>

<condition narrative="Test Password - Secret"/>

<condition narrative="Test Number - 5"/>

<condition narrative="Test Flag - True"/>

<condition narrative="Test Date - 2009-12-25"/>

<condition narrative="Test DateTime - 2001-07-04 13:37"/>

<condition narrative="Test Time - 11:27"/>

<condition narrative="Test TimeSpan - 12 Days, 11 Hours, 10 Minutes, 9 Seconds"/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

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<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative="Test Flag - True"/>

<condition narrative="Test Flag - True"/>

<condition narrative=""/>

<condition narrative="Test TimeSpan - 12 Days, 11 Hours, 10 Minutes, 9 Seconds"/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

</preconditions>

<postconditions>

<condition narrative="The input values will have been inspected"/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-165</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Test Text" stage="Test Text"/>

<input type="password" name="Test Password" stage="Test Password"/>

<input type="number" name="Test Number" stage="Test Number"/>

<input type="flag" name="Test Flag" stage="Test Flag"/>

<input type="date" name="Test Date" stage="Test Date"/>

<input type="datetime" name="Test DateTime" stage="Test DateTime"/>

<input type="time" name="Test Time" stage="Test Time"/>

<input type="timespan" name="Test Timespan" stage="Test Timespan"/>

</inputs>

<onsuccess>b5e1b2bb-7a32-44ec-ab5a-a24bccdf1b94</onsuccess>

</stage>

<stage stageid="9d09623d-7c6a-44f9-b2e4-4570c9018c42" name="End" type="End">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

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</stage>

<stage stageid="192f1e90-52e0-4e28-af31-ccd7e5cb6ed2" name="new" type="Note">

<subsheetsid>a7af269f-5fee-49bd-95ea-39961565d3d7</subsheetsid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="dd713e6a-639f-48c0-b628-541000b126cd" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="d1423244-3a6d-487c-beec-1c70e28d86cb" name="Test Text" type="Data">

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<narrative>

</narrative>

<displayx>-240</displayx>

<displayy>-30</displayy>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e8758c17-b2ed-4139-b430-66b10c3b1e6a" name="Test Password" type="Data">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

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</narrative>

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<alwaysinit/>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e6375894-0033-42a5-8c1b-7c349d861a7c" name="Test Flag" type="Data">
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<narrative>

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<datatype>flag</datatype>

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<alwaysinit/>

</stage>

<stage stageid="e80e4ad2-b89a-4ef4-87e1-5bf58c0ff680" name="Test Date" type="Data">

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<datatype>date</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>


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<stage stageid="ba66b0ab-cdb8-432d-a510-44ff29ae8f70" name="Test DateTime" type="Data">
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<narrative>

</narrative>

<displayx>-180</displayx>

<displayy>105</displayy>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="a13070ee-1926-4b7a-bdb2-d0ac5df6663c" name="Test Time" type="Data">
<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>-240</displayx>

<displayy>150</displayy>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>time</datatype>

<initialvalue/>

<private/>

<alwaysinit/>
```

```
</stage>

<stage stageid="24f3bb0c-8ebe-4591-876c-ceca405f8f76" name="Test Timespan" type="Data">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>

</narrative>

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<datatype>timespan</datatype>

<initialvalue>0.00:00:00</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="b5e1b2bb-7a32-44ec-ab5a-a24bccdf1b94" name="Verify Text" type="Decision">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

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<decision expression="[Test Text] = &quot;Banana&quot;"/>

<ontrue>98bdd73e-a396-46e8-bdcb-d9a3bf67b0a4</ontrue>

<onfalse>3e0d17c9-a005-4dae-abee-e83993aef4d6</onfalse>
```

```
</stage>

<stage stageid="3e0d17c9-a005-4dae-abee-e83993aef4d6" name="Note1" type="Note">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

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<stage stageid="32eac335-7c05-40d1-bbfc-05000e799131" name="Verify Password" type="Decision">

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<decision expression="[Password Valid]"/>

<ontrue>76658f85-9a55-48ac-91e4-aa00c21446ca</ontrue>

<onfalse>a9cd563f-fbbf-4f50-a4c2-ae1cad025bce</onfalse>

</stage>

<stage stageid="76658f85-9a55-48ac-91e4-aa00c21446ca" name="Verify Number" type="Decision">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>

</narrative>
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<displayheight>30</displayheight>

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<decision expression="[Test Number] = 5"/>

<ontrue>25bef5dd-9b1b-4a7a-b000-93ad9a7e1ad9</ontrue>

<onfalse>5307bb33-5a0e-4dc1-9031-441aa5d896c9</onfalse>

</stage>

<stage stageid="25bef5dd-9b1b-4a7a-b000-93ad9a7e1ad9" name="Verify Flag" type="Decision">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

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<decision expression="[Test Flag] = True"/>

<ontrue>fd99c2cd-871b-4870-8a04-a2239bcc891d</ontrue>

<onfalse>60dd91d5-ce1a-473e-80a2-449db3d80fda</onfalse>

</stage>

<stage stageid="fd99c2cd-871b-4870-8a04-a2239bcc891d" name="Verify Date" type="Decision">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>15</displayx>
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<display>120</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<decision expression="[Test Date] = MakeDate(25, 12, 2009)"/>

<ontrue>2b57320a-61b4-4b84-983a-6d4dbd84ded7</ontrue>

<onfalse>f27a2ce1-dfa7-462c-8e47-b1f6df9f663e</onfalse>

</stage>

<stage stageid="2b57320a-61b4-4b84-983a-6d4dbd84ded7" name="Verify DateTime" type="Decision">

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<decision expression="[Test DateTime] = MakeDateTime(4, 7, 2003, 10, 27, 0, False)"/>

<ontrue>141eb2a1-48b8-41f0-a472-0e4820beb42d</ontrue>

<onfalse>aafae97a-c86e-40af-a3cc-974e345e07fd</onfalse>

</stage>

<stage stageid="141eb2a1-48b8-41f0-a472-0e4820beb42d" name="Verify Time" type="Decision">

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</narrative>

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<displayheight>30</displayheight>

<decision expression="[Test Time] = MakeTime(11,27,0)"/>

<ontrue>938a079a-3261-4ca4-a3f8-6bbe7cbbc474</ontrue>

<onfalse>5c956bc0-6297-47cd-a9dd-d0d983bab6a8</onfalse>

</stage>

<stage stageid="938a079a-3261-4ca4-a3f8-6bbe7cbbc474" name="Verify TimeSpan" type="Decision">

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<displayheight>30</displayheight>

<decision expression="[Test Timespan] = MakeTimeSpan(12,11,10,9,0)"/>

<ontrue>9d09623d-7c6a-44f9-b2e4-4570c9018c42</ontrue>

<onfalse>90ecb625-0d73-4fe9-b322-88f4de5b1deb</onfalse>

</stage>

<stage stageid="a9cd563f-fbbf-4f50-a4c2-ae1cad025bce" name="Password Fail" type="Note">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>FAIL</narrative>

<displayx>150</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="5307bb33-5a0e-4dc1-9031-441aa5d896c9" name="Number Fail" type="Note">

<subsHEETid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsHEETid>

<narrative>FAIL</narrative>

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</stage>

<stage stageid="60dd91d5-ce1a-473e-80a2-449db3d80fda" name="Flag fail" type="Note">

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<narrative>FAIL</narrative>

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<displayheight>30</displayheight>

</stage>

<stage stageid="f27a2ce1-dfa7-462c-8e47-b1f6df9f663e" name="Date fail" type="Note">

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<narrative>FAIL</narrative>

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</stage>

<stage stageid="aafae97a-c86e-40af-a3cc-974e345e07fd" name="DateTime fail" type="Note">

<subsHEETid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsHEETid>

<narrative>FAIL</narrative>

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</stage>

<stage stageid="5c956bc0-6297-47cd-a9dd-d0d983bab6a8" name="Time fail" type="Note">

<subsHEETid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsHEETid>

<narrative>FAIL</narrative>

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<displayy>210</displayy>

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</stage>

<stage stageid="90ecb625-0d73-4fe9-b322-88f4de5b1deb" name="Timespan fail" type="Note">

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<narrative>FAIL</narrative>

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<stage stageid="682e43b5-0494-402b-bf5c-e15aeb2f8fe7" name="Outputs Only" type="SubSheetInfo">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

<narrative>Generates some output values - one of each supported data type. The values should match the
<displayx>-195</displayx>

<displayy>-105</displayy>

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<stage stageid="32ffbb8e-abae-49da-876e-d6158854f0df" name="Start" type="Start">

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<displayy>-105</displayy>

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<displayheight>30</displayheight>

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<onsuccess>dde1c3c2-8504-41ee-855e-3fa82495688a</onsuccess>

</stage>

<stage stageid="0c4e7b45-d637-4236-9294-dd3b942743d1" name="End" type="End">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

<narrative>

</narrative>

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```
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<outputs>

<output type="text" name="Test Text" stage="Test Text"/>

<output type="password" name="Test Password" stage="Test Password"/>

<output type="number" name="Test Number" stage="Test Number"/>

<output type="flag" name="Test Flag" stage="Test Flag"/>

<output type="date" name="Test Date" stage="Test Date"/>

<output type="datetime" name="Test DateTime" stage="Test DateTime"/>

<output type="time" name="Test Time" stage="Test Time"/>

<output type="timespan" name="Test Timespan" stage="Test Timespan"/>

</outputs>

</stage>

<stage stageid="a7643249-de39-42b2-aa26-7cfbccd9ab5f" name="Test Text" type="Data">

<subsheetid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetid>

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<displayheight>30</displayheight>

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<initialvalue/>

<private/>
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```
<alwaysinit/>

</stage>

<stage stageid="5a53970e-576b-4b90-88e8-d7fed87726dd" name="Test Password" type="Data">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

<narrative>

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<datatype>password</datatype>

<initialvalueenc>

</initialvalueenc>

<private/>

<alwaysinit/>

</stage>

<stage stageid="cc9b2bd8-9b4c-40e1-b803-a049c90e3958" name="Test Number" type="Data">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

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<displayheight>30</displayheight>

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<datatype>number</datatype>
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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="16311cbc-b03f-44a2-8dc4-75866508ceef" name="Test Flag" type="Data">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="269afb55-f01e-4a1e-b2a8-c3e8913c9050" name="Test Date" type="Data">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

<narrative>

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<datatype>date</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d0c82672-9320-4dd4-94f9-7282cb5e06d2" name="Test DateTime" type="Data">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

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<datatype>datetime</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="1dc698f6-9162-4b6b-a2a9-622e7a5d166b" name="Test Time" type="Data">

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<narrative>

</narrative>

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<private/>
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</stage>

<stage stageid="2c110756-6ea4-42da-aaa3-19f502a432ae" name="Test Timespan" type="Data">
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<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>
<datatype>timespan</datatype>
<initialvalue>0.00:00:00</initialvalue>
<private/>
<alwaysinit/>
</stage>

<stage stageid="dde1c3c2-8504-41ee-855e-3fa82495688a" name="Set Text" type="Calculation">
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<narrative>

</narrative>

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<onsuccess>614893ec-0f6a-4baf-9b17-7d6afb88f428</onsuccess>

<calculation expression="&quot;Banana&quot;" stage="Test Text"/>

</stage>

<stage stageid="b5b83cb0-3873-4464-9c75-df61277508b4" name="Set Number" type="Calculation">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

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<onsuccess>8259a93c-17fa-445c-8b22-c4fa149599d8</onsuccess>

<calculation expression="5" stage="Test Number"/>

</stage>

<stage stageid="8259a93c-17fa-445c-8b22-c4fa149599d8" name="Set Flag" type="Calculation">

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<onsuccess>60182a0c-a7a5-4cf6-87b7-e1b9594e3f3e</onsuccess>
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<calculation expression="True" stage="Test Flag"/>

</stage>

<stage stageid="60182a0c-a7a5-4cf6-87b7-e1b9594e3f3e" name="Set Date" type="Calculation">

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<onsuccess>d4d2b207-60ed-4873-b508-1f238fa26225</onsuccess>

<calculation expression="MakeDate(25,12,2009)" stage="Test Date"/>

</stage>

<stage stageid="d4d2b207-60ed-4873-b508-1f238fa26225" name="Set DateTime" type="Calculation">

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<narrative>

</narrative>

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<onsuccess>04b20ef6-c516-4a14-9c77-2d40447b6cf8</onsuccess>

<calculation expression="MakeDateTime(4, 7, 2003, 10, 27, 0, False)" stage="Test DateTime"/>

</stage>

<stage stageid="04b20ef6-c516-4a14-9c77-2d40447b6cf8" name="Set Time" type="Calculation">

<subsheetid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetid>

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<onsuccess>ae8f3c0a-6e3c-4ef5-9ae4-fdf979dc4468</onsuccess>

<calculation expression="MakeTime(11,27,0)" stage="Test Time"/>

</stage>

<stage stageid="ae8f3c0a-6e3c-4ef5-9ae4-fdf979dc4468" name="Set Timespan" type="Calculation">

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<displayheight>30</displayheight>

<onsuccess>9396ee46-69d3-402c-b119-eb672fb5bc30</onsuccess>

<calculation expression="MakeTimeSpan(12,11,10,9,0)" stage="Test Timespan"/>

</stage>

<stage stageid="9396ee46-69d3-402c-b119-eb672fb5bc30" name="Verify Values" type="SubSheet">

<subsheetid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>300</displayy>

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<displayheight>30</displayheight>

<inputs>

<input type="text" name="Test Text" expr="[Test Text]"/>

<input type="password" name="Test Password" expr="[Test Password]"/>

<input type="number" name="Test Number" expr="[Test Number]"/>

<input type="flag" name="Test Flag" expr="[Test Flag]"/>

<input type="date" name="Test Date" expr="[Test Date]"/>

<input type="datetime" name="Test DateTime" expr="[Test DateTime]"/>

<input type="time" name="Test Time" expr="[Test Time]"/>

<input type="timespan" name="Test Timespan" expr="[Test Timespan]"/>

</inputs>

<onsuccess>0c4e7b45-d637-4236-9294-dd3b942743d1</onsuccess>

<processid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</processid>

</stage>

<stage stageid="532db24d-52ad-4e2c-8b19-166517d0753d" name="Note2" type="Note">

<subsheetid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetid>

<narrative>Internal consistency check - check our output against the values we expect as input</narrative>

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<displayy>300</displayy>

<displaywidth>120</displaywidth>

<displayheight>90</displayheight>

<onsuccess>9396ee46-69d3-402c-b119-eb672fb5bc30</onsuccess>

<condition narrative=""/>

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<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

</preconditions>

<postconditions>

<condition narrative="Input values will have been modified as follows:"/>

<condition narrative="Text and Password values will be repeated - eg "abc" becomes

<condition narrative="Numbers will be incremented by 1"/>

<condition narrative="Flags will be inverted - True becomes False and vice versa"/>

<condition narrative="Dates will be advanced by one day"/>

<condition narrative="DateTimes will be advanced by one hour"/>

<condition narrative="Times will be advanced by one minute"/>

<condition narrative="Timespans will be added to by one second"/>

<condition narrative=""/>

<condition narrative=""/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Test Text" stage="Test Text"/>

<input type="password" name="Test Password" stage="Test Password"/>

<input type="number" name="Test Number" stage="Test Number"/>

<input type="flag" name="Test Flag" stage="Test Flag"/>

```
<input type="date" name="Test Date" stage="Test Date"/>

<input type="datetime" name="Test DateTime" stage="Test DateTime"/>

<input type="time" name="Test Time" stage="Test Time"/>

<input type="timespan" name="Test Timespan" stage="Test Timespan"/>

<input type="binary" name="Test Binary" stage="Test Binary"/>

</inputs>

<onsuccess>dc7b605b-df2b-42cb-8212-8cd804f362af</onsuccess>

</stage>

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<calculation expression="[Test Text] & [Test Text]" stage="Test Text"/>

</stage>

<stage stageid="623c21b1-fba3-469b-976e-de64790e819e" name="End" type="End">

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<output type="number" name="Test Number" stage="Test Number"/>

<output type="flag" name="Test Flag" stage="Test Flag"/>

<output type="date" name="Test Date" stage="Test Date"/>

<output type="datetime" name="Test DateTime" stage="Test DateTime"/>

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<output type="timespan" name="Test Timespan" stage="Test Timespan"/>

<output type="binary" name="Test Binary" stage="Test Binary"/>

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<calculation expression="DateAdd(9, 1, [Test Date])" stage="Test Date"/>

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<calculation expression="[Test DateTime] + [One Hour]" stage="Test DateTime"/>

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<inputs>

<input type="password" name="Pwd" expr="[Test Password]"/>

</inputs>

<outputs>

<output type="password" name="outPwd" stage="Test Password"/>

</outputs>

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<code>outPwd = Pwd & Pwd</code>

</stage>

<stage stageid="92f0cb2b-8edb-4166-87f4-b0d3a32447b7" name="Set Password" type="Code">

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</outputs>


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<code>outPwd = "Secret"</code>

</stage>

<stage stageid="98bdd73e-a396-46e8-bdcb-d9a3bf67b0a4" name="Check Password Valid" type="Code">

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<input type="password" name="Pwd" expr="[Test Password]"/>

</inputs>

<outputs>

<output type="flag" name="Password Valid" stage="Password Valid"/>

</outputs>

<onsuccess>32eac335-7c05-40d1-bbfc-05000e799131</onsuccess>

<code>Password_Valid = (Pwd = "Secret")</code>

</stage>

<stage stageid="4c18d5c5-c349-4976-9df7-3237d8c40477" name="Password Valid" type="Data">

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<field name="Born" type="date" description="Date born"/>

<field name="Squeakiness" type="number" description="How high-pitched and squeaky, on a scale of 1 to 10"/>

</collectioninfo>

<initialvalue>

<row>

<field name="Name" type="text" value="Barry"/>

<field name="Born" type="date" value="1949/12/22"/>

<field name="Squeakiness" type="number" value="9"/>

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<row>

<field name="Name" type="text" value="Robin"/>

<field name="Born" type="date" value="1949/12/22"/>

<field name="Squeakiness" type="number" value="10"/>

</row>

<row>

<field name="Name" type="text" value="Maurice"/>

<field name="Born" type="date" value="1946/09/01"/>

<field name="Squeakiness" type="number" value="11"/>

</row>

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</element>

</appdef>

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<globalcode>


</globalcode>

<code>


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</stage>

<stage stageid="0c662000-0ea1-4833-b82a-d1c888b762ee" name="End" type="End">

<subsHEETid>a7af269f-5fee-49bd-95ea-39961565d3d7</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="6f7247af-d4f3-4a4d-a149-1bcbfe35a711" name="Inputs Only" type="SubSheetInfo">

<subsHEETid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsHEETid>

<narrative>Tests that inputs are successfully received, and that values match those expected.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="2cd40514-4158-4107-ac0d-51bc3a5ceebb" name="Start" type="Start">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<preconditions>

<condition narrative="No inputs may be left blank. The following values should be supplied:"/>

<condition narrative="Test Text - Banana"/>

<condition narrative="Test Password - Secret"/>

<condition narrative="Test Number - 5"/>

<condition narrative="Test Flag - True"/>

<condition narrative="Test Date - 2009-12-25"/>

<condition narrative="Test DateTime - 2001-07-04 13:37"/>

<condition narrative="Test Time - 11:27"/>

<condition narrative="Test TimeSpan - 12 Days, 11 Hours, 10 Minutes, 9 Seconds"/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

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<condition narrative=""/>

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<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

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<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative="Test Flag - True"/>

<condition narrative="Test Flag - True"/>

<condition narrative=""/>

<condition narrative="Test TimeSpan - 12 Days, 11 Hours, 10 Minutes, 9 Seconds"/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

<condition narrative=""/>

</preconditions>

<postconditions>

<condition narrative="The input values will have been inspected"/>

</postconditions>
```

```
<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-165</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Test Text" stage="Test Text"/>

<input type="password" name="Test Password" stage="Test Password"/>

<input type="number" name="Test Number" stage="Test Number"/>

<input type="flag" name="Test Flag" stage="Test Flag"/>

<input type="date" name="Test Date" stage="Test Date"/>

<input type="datetime" name="Test DateTime" stage="Test DateTime"/>

<input type="time" name="Test Time" stage="Test Time"/>

<input type="timespan" name="Test Timespan" stage="Test Timespan"/>

</inputs>

<onsuccess>b5e1b2bb-7a32-44ec-ab5a-a24bccdf1b94</onsuccess>

</stage>

<stage stageid="9d09623d-7c6a-44f9-b2e4-4570c9018c42" name="End" type="End">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>330</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>
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</stage>

<stage stageid="192f1e90-52e0-4e28-af31-ccd7e5cb6ed2" name="new" type="Note">

<subsheetid>a7af269f-5fee-49bd-95ea-39961565d3d7</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="dd713e6a-639f-48c0-b628-541000b126cd" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="d1423244-3a6d-487c-beec-1c70e28d86cb" name="Test Text" type="Data">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>-240</displayx>

<displayy>-30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e8758c17-b2ed-4139-b430-66b10c3b1e6a" name="Test Password" type="Data">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>-180</displayx>

<displayy>-30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>


```
<datatype>password</datatype>

<initialvalueenc>

</initialvalueenc>

<private/>

<alwaysinit/>

</stage>

<stage stageid="c13c2cb1-09e9-435a-98f3-4ba500af90d0" name="Test Number" type="Data">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>

</narrative>

<displayx>-240</displayx>

<displayy>15</displayy>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e6375894-0033-42a5-8c1b-7c349d861a7c" name="Test Flag" type="Data">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>
```

```
<displayheight>30</displayheight>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e80e4ad2-b89a-4ef4-87e1-5bf58c0ff680" name="Test Date" type="Data">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>-240</displayx>

<displayy>105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>date</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="ba66b0ab-cdb8-432d-a510-44ff29ae8f70" name="Test DateTime" type="Data">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>-180</displayx>

<displayy>105</displayy>
```

```
<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>datetime</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="a13070ee-1926-4b7a-bdb2-d0ac5df6663c" name="Test Time" type="Data">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>-240</displayx>

<displayy>150</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>time</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="24f3bb0c-8ebe-4591-876c-ceca405f8f76" name="Test Timespan" type="Data">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>-240</displayx>
```

```
<display>195</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>timespan</datatype>

<initialvalue>0.00:00:00</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="b5e1b2bb-7a32-44ec-ab5a-a24bccdf1b94" name="Verify Text" type="Decision">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>

</narrative>

<displayx>15</displayx>

<display>-120</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<decision expression="[Test Text] = &quot;Banana&quot;"/>

<ontrue>98bdd73e-a396-46e8-bdcb-d9a3bf67b0a4</ontrue>

<onfalse>3e0d17c9-a005-4dae-abee-e83993aef4d6</onfalse>

</stage>

<stage stageid="3e0d17c9-a005-4dae-abee-e83993aef4d6" name="Note1" type="Note">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>FAIL</narrative>

<displayx>150</displayx>

<display>-120</display>
```

```
<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="32eac335-7c05-40d1-bbfc-05000e799131" name="Verify Password" type="Decision">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<decision expression="[Password Valid]"/>

<ontrue>76658f85-9a55-48ac-91e4-aa00c21446ca</ontrue>

<onfalse>a9cd563f-fbbf-4f50-a4c2-ae1cad025bce</onfalse>

</stage>

<stage stageid="76658f85-9a55-48ac-91e4-aa00c21446ca" name="Verify Number" type="Decision">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<decision expression="[Test Number] = 5"/>
```

<ontrue>25bef5dd-9b1b-4a7a-b000-93ad9a7e1ad9</ontrue>

<onfalse>5307bb33-5a0e-4dc1-9031-441aa5d896c9</onfalse>

</stage>

<stage stageid="25bef5dd-9b1b-4a7a-b000-93ad9a7e1ad9" name="Verify Flag" type="Decision">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>75</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<decision expression="[Test Flag] = True"/>

<ontrue>fd99c2cd-871b-4870-8a04-a2239bcc891d</ontrue>

<onfalse>60dd91d5-ce1a-473e-80a2-449db3d80fda</onfalse>

</stage>

<stage stageid="fd99c2cd-871b-4870-8a04-a2239bcc891d" name="Verify Date" type="Decision">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>120</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<decision expression="[Test Date] = MakeDate(25, 12, 2009)"/>

<ontrue>2b57320a-61b4-4b84-983a-6d4dbd84ded7</ontrue>

```
<onfalse>f27a2ce1-dfa7-462c-8e47-b1f6df9f663e</onfalse>

</stage>

<stage stageid="2b57320a-61b4-4b84-983a-6d4dbd84ded7" name="Verify DateTime" type="Decision">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>165</displayy>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<decision expression="[Test DateTime] = MakeDateTime(4, 7, 2003, 10, 27, 0, False)"/>

<ontrue>141eb2a1-48b8-41f0-a472-0e4820beb42d</ontrue>

<onfalse>aafae97a-c86e-40af-a3cc-974e345e07fd</onfalse>

</stage>

<stage stageid="141eb2a1-48b8-41f0-a472-0e4820beb42d" name="Verify Time" type="Decision">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>210</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<decision expression="[Test Time] = MakeTime(11,27,0)"/>

<ontrue>938a079a-3261-4ca4-a3f8-6bbe7cbbc474</ontrue>

<onfalse>5c956bc0-6297-47cd-a9dd-d0d983bab6a8</onfalse>
```

```
</stage>

<stage stageid="938a079a-3261-4ca4-a3f8-6bbe7cbbc474" name="Verify TimeSpan" type="Decision">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>270</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<decision expression="[Test Timespan] = MakeTimeSpan(12,11,10,9,0)"/>

<ontrue>9d09623d-7c6a-44f9-b2e4-4570c9018c42</ontrue>

<onfalse>90ecb625-0d73-4fe9-b322-88f4de5b1deb</onfalse>

</stage>

<stage stageid="a9cd563f-fbbf-4f50-a4c2-ae1cad025bce" name="Password Fail" type="Note">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>FAIL</narrative>

<displayx>150</displayx>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="5307bb33-5a0e-4dc1-9031-441aa5d896c9" name="Number Fail" type="Note">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

<narrative>FAIL</narrative>

<displayx>150</displayx>
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<displayy>30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="60dd91d5-ce1a-473e-80a2-449db3d80fda" name="Flag fail" type="Note">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>FAIL</narrative>

<displayx>150</displayx>

<displayy>75</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="f27a2ce1-dfa7-462c-8e47-b1f6df9f663e" name="Date fail" type="Note">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>FAIL</narrative>

<displayx>150</displayx>

<displayy>120</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="aafae97a-c86e-40af-a3cc-974e345e07fd" name="DateTime fail" type="Note">

<subsheetsid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetsid>

<narrative>FAIL</narrative>

<displayx>150</displayx>

<displayy>165</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="5c956bc0-6297-47cd-a9dd-d0d983bab6a8" name="Time fail" type="Note">

<subsHEETid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsHEETid>

<narrative>FAIL</narrative>

<displayx>150</displayx>

<displayy>210</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="90ecb625-0d73-4fe9-b322-88f4de5b1deb" name="Timespan fail" type="Note">

<subsHEETid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsHEETid>

<narrative>FAIL</narrative>

<displayx>150</displayx>

<displayy>270</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="682e43b5-0494-402b-bf5c-e15aeb2f8fe7" name="Outputs Only" type="SubSheetInfo">

<subsHEETid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsHEETid>

<narrative>Generates some output values - one of each supported data type. The values should match the

<displayx>-195</displayx>

```
<display>-105</display>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="32ffbb8e-abae-49da-876e-d6158854f0df" name="Start" type="Start">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

<narrative>

</narrative>

<displayx>15</displayx>

<display>-105</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>dde1c3c2-8504-41ee-855e-3fa82495688a</onsuccess>

</stage>

<stage stageid="0c4e7b45-d637-4236-9294-dd3b942743d1" name="End" type="End">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

<narrative>

</narrative>

<displayx>15</displayx>

<display>360</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Test Text" stage="Test Text"/>
```

```
<output type="password" name="Test Password" stage="Test Password"/>

<output type="number" name="Test Number" stage="Test Number"/>

<output type="flag" name="Test Flag" stage="Test Flag"/>

<output type="date" name="Test Date" stage="Test Date"/>

<output type="datetime" name="Test DateTime" stage="Test DateTime"/>

<output type="time" name="Test Time" stage="Test Time"/>

<output type="timespan" name="Test Timespan" stage="Test Timespan"/>

</outputs>

</stage>

<stage stageid="a7643249-de39-42b2-aa26-7cfbccd9ab5f" name="Test Text" type="Data">

<subsheetid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetid>

<narrative>

</narrative>

<displayx>-225</displayx>

<displayy>-30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="5a53970e-576b-4b90-88e8-d7fed87726dd" name="Test Password" type="Data">

<subsheetid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetid>

<narrative>

</narrative>
```

```
<displayx>-165</displayx>

<displayy>-30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>password</datatype>

<initialvalueenc>

</initialvalueenc>

<private/>

<alwaysinit/>

</stage>

<stage stageid="cc9b2bd8-9b4c-40e1-b803-a049c90e3958" name="Test Number" type="Data">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

<narrative>

</narrative>

<displayx>-225</displayx>

<displayy>15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="16311cbc-b03f-44a2-8dc4-75866508ceef" name="Test Flag" type="Data">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>
```

<narrative>

</narrative>

<displayx>-225</displayx>

<displayy>60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="269afb55-f01e-4a1e-b2a8-c3e8913c9050" name="Test Date" type="Data">

<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>

<narrative>

</narrative>

<displayx>-225</displayx>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<datatype>date</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d0c82672-9320-4dd4-94f9-7282cb5e06d2" name="Test DateTime" type="Data">

<subsheetid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetid>

<narrative>

</narrative>

<displayx>-165</displayx>

<displayy>105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<datatype>datetime</datatype>

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<input type="password" name="Test Password" expr="[Test Password]"/>
<input type="number" name="Test Number" expr="[Test Number]"/>
<input type="flag" name="Test Flag" expr="[Test Flag]"/>
<input type="date" name="Test Date" expr="[Test Date]"/>
<input type="datetime" name="Test DateTime" expr="[Test DateTime]"/>
<input type="time" name="Test Time" expr="[Test Time]"/>
<input type="timespan" name="Test Timespan" expr="[Test Timespan]"/>
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<stage stageid="532db24d-52ad-4e2c-8b19-166517d0753d" name="Note2" type="Note">
<subsheetsid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetsid>
<narrative>Internal consistency check - check our output against the values we expect as input</narrative>
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<stage stageid="141e53ef-8b76-401f-80b6-537e3d9b0cd7" name="Inputs and Outputs" type="SubSheetl
<subsheetsid>4cf48d4c-77fb-4475-8236-95b75684e73f</subsheetsid>
<narrative>General calculation operations on the input data.</narrative>
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<postconditions>

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<condition narrative="Text and Password values will be repeated - eg "abc" becomes

<condition narrative="Numbers will be incremented by 1"/>

<condition narrative="Flags will be inverted - True becomes False and vice versa"/>

<condition narrative="Dates will be advanced by one day"/>

<condition narrative="DateTimes will be advanced by one hour"/>

<condition narrative="Times will be advanced by one minute"/>

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<condition narrative=""/>

</postconditions>

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<input type="password" name="Test Password" stage="Test Password"/>

<input type="number" name="Test Number" stage="Test Number"/>

<input type="flag" name="Test Flag" stage="Test Flag"/>

<input type="date" name="Test Date" stage="Test Date"/>

<input type="datetime" name="Test DateTime" stage="Test DateTime"/>

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<output type="flag" name="Test Flag" stage="Test Flag"/>

<output type="date" name="Test Date" stage="Test Date"/>

<output type="datetime" name="Test DateTime" stage="Test DateTime"/>

<output type="time" name="Test Time" stage="Test Time"/>

<output type="timespan" name="Test Timespan" stage="Test Timespan"/>

<output type="binary" name="Test Binary" stage="Test Binary"/>

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<stage stageid="743da3c7-cdea-4a9c-90cb-8b250a2e0389" name="Repeat Password" type="Calculation"

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<calculation expression="[Test Number] + 1" stage="Test Number"/>

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<stage stageid="e96f793b-aeac-487f-ba2c-b712572448ac" name="Invert Flag" type="Calculation">

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<stage stageid="b3244b36-29cc-43d8-b9e0-2ba2298e0d38" name="Advance Date by One Day" type="Ca

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<calculation expression="DateAdd(9, 1, [Test Date])" stage="Test Date"/>

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<stage stageid="4a7273fc-2643-4a4b-8355-2215b03a3355" name="Advance DateTime by One Hour" type=

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<calculation expression="[Test Timespan] + [One Second]" stage="Test Timespan"/>
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</stage>

<stage stageid="b307101b-d855-4b62-859a-dea712ed041e" name="One Minute" type="Data">

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<inputs>

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<input type="password" name="Pwd" expr="[Test Password]"/>

</inputs>

<outputs>

<output type="password" name="outPwd" stage="Test Password"/>

</outputs>

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<code>outPwd = Pwd &amp;&amp; Pwd</code>

</stage>

<stage stageid="92f0cb2b-8edb-4166-87f4-b0d3a32447b7" name="Set Password" type="Code">

<subsheetid>d5a21d41-0f3a-49f6-abe3-a44dc6e09897</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<outputs>

<output type="password" name="outPwd" stage="Test Password"/>

</outputs>

<onsuccess>b5b83cb0-3873-4464-9c75-df61277508b4</onsuccess>

<code>outPwd = "Secret"</code>

</stage>

<stage stageid="98bdd73e-a396-46e8-bdcb-d9a3bf67b0a4" name="Check Password Valid" type="Code">

<subsheetid>0d51072d-bc40-4160-84da-ee80c9b9ee3d</subsheetid>

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<inputs>

<input type="password" name="Pwd" expr="[Test Password]"/>

</inputs>

<outputs>

<output type="flag" name="Password Valid" stage="Password Valid"/>

</outputs>

<onsuccess>32eac335-7c05-40d1-bbfc-05000e799131</onsuccess>

<code>Password_Valid = (Pwd = "Secret")</code>

</stage>

<stage stageid="4c18d5c5-c349-4976-9df7-3237d8c40477" name="Password Valid" type="Data">

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</narrative>

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<onsuccess>b5b83cb0-3873-4464-9c75-df61277508b4</onsuccess>

<calculation expression=""Secret"" stage="Test Password"/>

</stage>

<stage stageid="bd059250-6372-4305-9b78-a07b82e90a86" name="One Hour" type="Data">

<subsHEETid>4cf48d4c-77fb-4475-8236-95b75684e73f</subsHEETid>

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</narrative>

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<initialvalue>0.01:00:00</initialvalue>

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</stage>

<stage stageid="8f83c2e3-f209-4e5c-a554-eebaf61e0828" name="Collection Out" type="SubSheetInfo">

<subsheetid>654e72c6-0792-4915-9f5e-91d7568b5e41</subsheetid>

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</stage>

<stage stageid="bcf852e6-ea23-4f68-93ba-44d3d7f6850e" name="Start" type="Start">

<subsheetid>654e72c6-0792-4915-9f5e-91d7568b5e41</subsheetid>

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<onsuccess>2f5b5811-c719-41ba-ab41-c09371bd0445</onsuccess>

</stage>

<stage stageid="2f5b5811-c719-41ba-ab41-c09371bd0445" name="End" type="End">

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<outputs>

<output type="collection" name="BeeGees" narrative="Essential facts about the Bee Gees" stage="BeeGe

</outputs>

</stage>

<stage stageid="dc33756b-358c-46d6-8b1f-875001e2b846" name="BeeGees" type="Collection">

<subsheetid>654e72c6-0792-4915-9f5e-91d7568b5e41</subsheetid>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

<collectioninfo>

<field name="Name" type="text" description="Name"/>

<field name="Born" type="date" description="Date born"/>

<field name="Squeakiness" type="number" description="How high-pitched and squeaky, on a scale of 1 to 10"/>
```

```
</collectioninfo>

<initialvalue>

<row>

<field name="Name" type="text" value="Barry"/>

<field name="Born" type="date" value="1949/12/22"/>

<field name="Squeakiness" type="number" value="9"/>

</row>

<row>

<field name="Name" type="text" value="Robin"/>

<field name="Born" type="date" value="1949/12/22"/>

<field name="Squeakiness" type="number" value="10"/>

</row>

<row>

<field name="Name" type="text" value="Maurice"/>

<field name="Born" type="date" value="1946/09/01"/>

<field name="Squeakiness" type="number" value="11"/>

</row>

</initialvalue>

</stage>

<stage stageid="56f8af4d-dfca-4419-b227-740878b672b9" name="Test Binary" type="Data">

<subsheetid>4cf48d4c-77fb-4475-8236-95b75684e73f</subsheetid>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="31179d4d-7ed2-4354-a1fc-c16b941d712d" name="Collection In Out" type="SubSheetInfo">

<subsheetsid>423207ae-5d49-4057-aafb-1007105e6e6a</subsheetsid>

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<stage stageid="df6fce7e-708c-40e4-9832-88e2538a2967" name="Start" type="Start">

<subsheetsid>423207ae-5d49-4057-aafb-1007105e6e6a</subsheetsid>

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</narrative>

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<inputs>


```
<input type="collection" name="BeegeesIn" stage="BeeGees"/>

</inputs>

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</stage>

<stage stageid="8e8b454a-964c-426b-9cce-1d31ef5ef4df" name="End" type="End">

<subsheetid>423207ae-5d49-4057-aafb-1007105e6e6a</subsheetid>

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<outputs>

<output type="collection" name="BeeGeesOut" stage="BeeGees"/>

</outputs>

</stage>

<stage stageid="0147e3f2-fd3b-4538-b0ed-4e27ac8df60d" name="BeeGees" type="Collection">

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</narrative>

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<datatype>collection</datatype>
<private/>
<alwaysinit/>
<collectioninfo>
  <field name="Name" type="text" description="Name"/>
  <field name="Born" type="date" description="Date born"/>
  <field name="Squeakiness" type="number" description="How high-pitched and squeaky, on a scale of 1 to 10"/>
</collectioninfo>
</stage>
</process>
<process name="Webservices - OAuth2.0" version="6.7.0.0" narrative="Business Object for authorization and token management"/>
<appdef>
  <element name="Application Root">
    <id>0309f0b3-8c71-468a-b6e2-ce934f4511bf</id>
    <type>Application</type>
    <basetype>Application</basetype>
    <datatype>unknown</datatype>
    <diagnose>False</diagnose>
  </element>
</appdef>
<view>
  <camerax>0</camerax>
  <cameray>0</cameray>
  <zoom>1</zoom>
</view>
<preconditions/>
```

<endpoint narrative=""/>

<subsheel subsheetid="daf2aeae-ccbf-47e7-be80-d7f9f7cda452" type="CleanUp" published="True">

<name>Clean Up</name>

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<zoom>1</zoom>

</view>

</subsheel>

<subsheel subsheetid="67318fea-06de-4ab4-b24e-c296aa10321f" type="Normal" published="True">

<name>Request</name>

<view>

<camerax>260</camerax>

<cameray>69</cameray>

<zoom>1</zoom>

</view>

</subsheel>

<subsheel subsheetid="7652b71d-b844-4e53-b2af-59d9ec31a0ac" type="Normal" published="False">

<name>Request Token</name>

<view>

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<cameray>-7</cameray>

<zoom>1</zoom>

</view>

</subsheel>

<subsheel subsheetid="1cfc2c33-3381-4972-abb6-b529f18cfa44" type="Normal" published="False">

<name>Request Resource</name>

<view>

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<cameray>193</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="28c240f1-b990-40b4-95fc-035aea399ac1" type="Normal" published="False">

<name>Refresh Token</name>

<view>

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</view>

</subsheet>

<subsheet subsheetid="7ae9fd1e-48b3-41c1-9b9d-a822c0f60126" type="Normal" published="True">

<name>Load Certificate</name>

<view>

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<zoom>1</zoom>

</view>

</subsheet>

<stage stageid="45775d87-040d-40a6-b73b-5971c041501c" name="Start" type="Start">

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</narrative>

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<onsuccess>8a5639e4-7770-49e5-961e-6e539e072fe3</onsuccess>

</stage>

<stage stageid="8a5639e4-7770-49e5-961e-6e539e072fe3" name="End" type="End">

<loginhibit/>

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</stage>

<stage stageid="c3627a11-b60c-467d-b514-2a81e17d44d5" name="Stage1" type="ProcessInfo">

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<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>
```

```
<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>Microsoft.VisualBasic</import>

<import>System.Text</import>

<import>System.Security.Cryptography</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code>Private Shared ReadOnly Jan1st1970 As New DateTime(1970, 1, 1, 0, 0, 0, DateTimeKind.Utc)

Public Shared Function currentTimeMillis() As Long

Return CLng((DateTime.UtcNow - Jan1st1970).TotalMilliseconds)

End Function</code>

</stage>

<stage stageid="16647fe3-8725-4eb4-ac44-7f2a3d396da2" name="Clean Up" type="SubSheetInfo">

<subsheetsid>daf2aeae-ccbf-47e7-be80-d7f9f7cda452</subsheetsid>

<narrative>

</narrative>

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</stage>
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<stage stageid="d6b6c2e2-5fe2-4ce9-9c12-3ca7d86e4172" name="Start" type="Start">

<subsheetsid>daf2aeae-ccb-47e7-be80-d7f9f7cda452</subsheetsid>

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</narrative>

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<onsuccess>bf7a5e90-a6ba-48df-bc5f-f87e6dd329e9</onsuccess>

</stage>

<stage stageid="bf7a5e90-a6ba-48df-bc5f-f87e6dd329e9" name="End" type="End">

<subsheetsid>daf2aeae-ccb-47e7-be80-d7f9f7cda452</subsheetsid>

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</stage>

<stage stageid="1358dda6-d7a9-42b3-a857-9cee53b075a1" name="Request" type="SubSheetInfo">

<subsheetsid>67318fea-06de-4ab4-b24e-c296aa10321f</subsheetsid>

<narrative>Request a token and then use it immediately to request the resource</narrative>

<displayx>-195</displayx>

<display>-105</display>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="49eac0fa-75de-4797-ae9d-1793392b2cc5" name="Start" type="Start">

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<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Token URL" narrative="The url for the token request" stage="Token URL"/>

<input type="text" name="Resource URL" narrative="The url for the resource" stage="Resource URL"/>

<input type="text" name="Username" narrative="Username for HTTP Basic auth" stage="Username"/>

<input type="password" name="Password" narrative="Password for HTTP Basic auth" stage="Password"/>

<input type="collection" name="Token" narrative="Token data in a collection" stage="Token"/>

<input type="text" name="Certificate ID" narrative="The id of the client authentication certificate" stage="Certificate ID"/>

<input type="text" name="Method" narrative="HTTP Method" stage="Method"/>

<input type="text" name="Content Type" narrative="HTTP Content Type" stage="Content Type"/>

<input type="text" name="Body" narrative="HTTP Body" stage="Body"/>

</inputs>

<onsuccess>f8f33cad-f70a-4f0f-a3af-e78ddb123389</onsuccess>

</stage>

<stage stageid="f29a7d05-311f-4d69-bb79-a295ed678ee7" name="new" type="Note">

<subsheetid>daf2aeae-ccbf-47e7-be80-d7f9f7cda452</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="8f9725ca-938f-4127-a1b7-abacdada87e9d" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

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<displayheight>230</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="3fb70227-b46b-4284-9d51-1cf18d58d84a" name="Token URL" type="Data">

<subsheetid>67318fea-06de-4ab4-b24e-c296aa10321f</subsheetid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="9c05a019-4565-449b-a509-0526e280254e" name="Resource URL" type="Data">

<subsheetid>67318fea-06de-4ab4-b24e-c296aa10321f</subsheetid>

<narrative>

</narrative>

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<displayy>-105</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>
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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="019eb6f8-4781-4098-ae7-11fa57c63a63" name="Username" type="Data">

<subsheetid>67318fea-06de-4ab4-b24e-c296aa10321f</subsheetid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="02a7084c-766b-462e-8696-feca3622186b" name="Password" type="Data">

<subsheetid>67318fea-06de-4ab4-b24e-c296aa10321f</subsheetid>

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<datatype>password</datatype>

<initialvalueenc>

</initialvalueenc>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d4e3bc71-0a4e-4e05-a931-979d5e4b87ed" name="Request Token" type="SubSheetInfo">

<subsheetsid>7652b71d-b844-4e53-b2af-59d9ec31a0ac</subsheetsid>

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</narrative>

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</stage>

<stage stageid="2cd4ceab-8e1d-41d0-ba80-1c33daf765f9" name="End" type="End">

<subsheetsid>7652b71d-b844-4e53-b2af-59d9ec31a0ac</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

```
<output type="collection" name="Token" narrative="The resulting token as a collection" stage="Token"/>

</outputs>

</stage>

<stage stageid="14735bd9-9b52-4305-83b9-050508831c0a" name="Request Token" type="Action">

<subsheetsid>7652b71d-b844-4e53-b2af-59d9ec31a0ac</subsheetsid>

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<inputs>

<input type="text" name="Address URL" narrative="The URL to send the HTTP data to" expr="[Request U

<input type="text" name="Body" narrative="The body text of the HTTP request" expr="&quot;grant_ty

<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" expr=""/>

<input type="text" name="Content Type" narrative="The content type of the HTTP request." expr="&quot;q

<input type="text" name="Method" narrative="The method of the HTTP request." expr="&quot;POST&

<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" expr=""/>

<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" expr=""/>

<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" expr=""/>

<input type="collection" name="Headers" narrative="OPTIONAL: Headers" expr=""/>

<input type="text" name="Accept" narrative="OPTIONAL: Accept" expr="&quot;application/json&

<input type="text" name="Username" narrative="OPTIONAL: Basic Authentication username" expr="[User

<input type="password" name="Password" narrative="OPTIONAL: Basic Authenction password" expr="[Pa

<input type="text" name="Certificate ID" narrative="OPTIONAL: The id of the client authentication certificat

<input type="flag" name="Force Pre Authorization" narrative="OPTIONAL: Force the request to send the a
```

</inputs>

<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Result"/>

</outputs>

<onsuccess>ca7a6451-d288-4763-9b1c-24b9399ad05e</onsuccess>

<resource object="Utility - HTTP" action="HTTP Request"/>

</stage>

<stage stageid="1683c17c-6c04-4bb6-b020-4715f06f7c08" name="Result" type="Data">

<subsheetid>7652b71d-b844-4e53-b2af-59d9ec31a0ac</subsheetid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="ca7a6451-d288-4763-9b1c-24b9399ad05e" name="Parse JSON" type="Action">

<subsheetid>7652b71d-b844-4e53-b2af-59d9ec31a0ac</subsheetid>

<narrative>

</narrative>

<displayx>15</displayx>

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<displayheight>30</displayheight>

<inputs>

<input type="text" name="json" expr="[Result]"/>

</inputs>

<outputs>

<output type="collection" name="Result" stage="Token"/>

</outputs>

<onsuccess>2cd4ceab-8e1d-41d0-ba80-1c33daf765f9</onsuccess>

<resource object="Utility - JSON" action="JSON to Collection"/>

</stage>

<stage stageid="d0931d2f-5f90-42c5-b30a-420eb0e53315" name="Token" type="Collection">

<subsheetsid>7652b71d-b844-4e53-b2af-59d9ec31a0ac</subsheetsid>

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</stage>

<stage stageid="6f7bca05-6f56-44bc-b1bc-a6650093c669" name="Request URL" type="Data">

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<narrative>

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<datatype>text</datatype>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="a017716c-2c9e-4970-9e12-0001d03a8612" name="Start" type="Start">

<subsheetsid>7652b71d-b844-4e53-b2af-59d9ec31a0ac</subsheetsid>

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<narrative>

</narrative>

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<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Request URL" narrative="The url for the token request" stage="Request URL"/>

<input type="text" name="Username" narrative="Username for HTTP Basic auth" stage="Username"/>

<input type="password" name="Password" narrative="Password for HTTP Basic auth" stage="Password"/>

<input type="text" name="Certificate ID" narrative="The id of the client authentication certificate" stage="Certificate ID"/>

</inputs>

<onsuccess>14735bd9-9b52-4305-83b9-050508831c0a</onsuccess>

</stage>

<stage stageid="7c8fcfbe-eba5-406d-8704-0c95499a43a3" name="Username" type="Data">

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</narrative>

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<private/>

<alwaysinit/>

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<stage stageid="4d1983e3-95b7-44d5-82fb-affade540f80" name="Password" type="Data">

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</narrative>

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<input type="text" name="Request URL" narrative="The url for the token request" expr="[Token URL]"/>

<input type="text" name="Username" narrative="Username for HTTP Basic auth" expr="[Username]"/>

<input type="password" name="Password" narrative="Password for HTTP Basic auth" expr="[Password]"/>

<input type="text" name="Certificate ID" narrative="The id of the client authentication certificate" expr="[Certificate ID]"/>

</inputs>

<outputs>

<output type="collection" name="Token" narrative="The resulting token as a collection" stage="Token"/>

</outputs>

<onsuccess>4fb0385d-aa21-497c-b051-d7180524f54b</onsuccess>

<processid>7652b71d-b844-4e53-b2af-59d9ec31a0ac</processid>

</stage>

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<outputs>

<output type="text" name="Result" stage="Result"/>

</outputs>

</stage>

<stage stageid="ffaaa3bd-1c38-401f-9078-52a6c4cd59b2" name="Get Access Token" type="Calculation">
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<onsuccess>894804c9-f098-42f0-a061-70e59c75bc6d</onsuccess>

<calculation expression="[ResultData.access_token]" stage="Access Token"/>

</stage>

<stage stageid="0dfeedf9-28ff-4299-ab83-e162c09bb214" name="Access Token" type="Data">

<subsheetsid>1cfc2c33-3381-4972-abb6-b529f18cfa44</subsheetsid>

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</stage>

<stage stageid="1120a7e2-3a7b-47db-bb24-00dc8f53e672" name="Request Resource" type="Action">

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<inputs>

<input type="text" name="Address URL" narrative="The URL to send the HTTP data to" expr="[Resource U

<input type="text" name="Body" narrative="The body text of the HTTP request" expr="[Body]"/>

<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" expr=""/>

<input type="text" name="Content Type" narrative="The content type of the HTTP request." expr="[Content

<input type="text" name="Method" narrative="The method of the HTTP request." expr="[Method]"/>

<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" expr=""/>

<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" expr=""/>

<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" expr=""/>

<input type="collection" name="Headers" narrative="OPTIONAL: Headers" expr="[Headers]"/>

<input type="text" name="Accept" narrative="OPTIONAL: Accept" expr=""/>

<input type="text" name="Username" narrative="OPTIONAL: Basic Authentication username" expr=""/>

<input type="password" name="Password" narrative="OPTIONAL: Basic Authenction password" expr=""/>

<input type="text" name="Certificate ID" narrative="OPTIONAL: The id of the client authentication certificat

</inputs>

<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Result"/>

</outputs>

<onsuccess>2f9ca3d9-381d-435c-81a9-50c40b3d7f80</onsuccess>

<resource object="Utility - HTTP" action="HTTP Request"/>

</stage>

<stage stageid="894804c9-f098-42f0-a061-70e59c75bc6d" name="Add Row" type="Action">

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<inputs>

<input type="text" name="Collection Name" narrative="The name of the collection to be modified" expr="&

</inputs>

<onsuccess>488dfdc4-eed9-4fe0-ac8b-ee3428d07149</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Add Row"/>

</stage>

<stage stageid="c6b185a9-11b7-4975-a383-baf0304e4fca" name="Headers" type="Collection">

<subsheetid>1cfc2c33-3381-4972-abb6-b529f18cfa44</subsheetid>

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<alwaysinit/>

<collectioninfo>

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<field name="Authorization" type="text"/>

</collectioninfo>

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<stage stageid="488dfdc4-eed9-4fe0-ac8b-ee3428d07149" name="Set Auth" type="Calculation">

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<onsuccess>1120a7e2-3a7b-47db-bb24-00dc8f53e672</onsuccess>

<calculation expression="&quot;Bearer &quot; &amp; [Access Token]" stage="Headers.Auth">

</stage>

<stage stageid="33d3eda7-7c80-4dd9-96c3-f810a377efea" name="Token Type" type="Data">

<subsheetsid>1cfc2c33-3381-4972-abb6-b529f18cfa44</subsheetsid>

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<stage stageid="a7572632-0116-49be-862c-ebda9ae96b3b" name="Token Type" type="ChoiceStart">

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<narrative>

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<groupid>4e1cfb66-0bef-4124-a7b9-c8805be5ee9c</groupid>

<choices>

<choice expression="Lower([Token Type]) = "bearer"">

<name>Bearer</name>

<distance>60</distance>

<ontrue>ffaaa3bd-1c38-401f-9078-52a6c4cd59b2</ontrue>

</choice>

<choice expression="Lower([Token Type]) = "mac"">

<name>MAC</name>

<distance>105</distance>

<ontrue>c838ffd2-6697-474c-bcf5-245a8bd5f149</ontrue>

</choice>

</choices>

</stage>

<stage stageid="7682a7be-bcb9-4249-a237-7d6ca90f1eba" name="Otherwise1" type="ChoiceEnd">


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<onsuccess>55e01eb9-1362-4f39-928b-676accdf1759</onsuccess>

<groupid>4e1cfb66-0bef-4124-a7b9-c8805be5ee9c</groupid>

</stage>

<stage stageid="c838ffd2-6697-474c-bcf5-245a8bd5f149" name="Get MAC Header" type="Code">

<subsheetid>1cfc2c33-3381-4972-abb6-b529f18cfa44</subsheetid>

<loginhibit/>

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<inputs>

<input type="text" name="macKey" expr="[MAC Key]"/>

<input type="text" name="macID" expr="[MAC ID]"/>

<input type="text" name="domainName" expr="[Domain]"/>

</inputs>
```

<outputs>

<output type="text" name="accessToken" stage="Access Token"/>

</outputs>

<onsuccess>d87bdfbf-df9a-4c03-a3d5-b919507debee</onsuccess>

<code>Dim key As Byte() = Encoding.UTF8.GetBytes(macKey)

Dim mac As New HMACSHA1(key)

Dim epoch As Long = currentTimeMillis()

Dim timestamp As Long = epoch \ 1000

Dim ts As String = timestamp.ToString()

'notifications.e2.app.aexp.com is hardcoded here but will change depending on the environment.

'Each of the environments (Dev, Test and Prod) will have their own host name

Dim baseString As String = _

ts & & vbLf _

& & ts & & vbLf _

& & "POST" & & vbLf _

& & "%2Faaa%2F" & & vbLf _

& & domainName & & vbLf _

& & "443" & & vbLf _

& & vbLf

Dim baseBytes As Byte() = Encoding.UTF8.GetBytes(baseString)

Dim rawHmac As Byte() = mac.ComputeHash(baseBytes)

Dim macValue As String = Convert.ToBase64String(rawHmac)

```
Dim sb As New StringBuilder()
```

```
sb.Append("id=")
```

```
sb.Append(macID)
```

```
sb.Append("",ts="")
```

```
sb.Append(ts)
```

```
sb.Append("",nonce="")
```

```
sb.Append(ts)
```

```
sb.Append("",mac="")
```

```
sb.Append(macValue)
```

```
sb.Append(" ")
```

```
accessToken = sb.ToString()
```

```
</code>
```

```
</stage>
```

```
<stage stageid="14c6d072-a68c-4004-b6af-a2b8bea0d8d8" name="End" type="End">
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<outputs>
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<output type="text" name="Result" stage="Result"/>
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```
</outputs>
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</stage>

<stage stageid="7890b5bd-d874-4614-867b-fbe8d908ed1a" name="Request Resource" type="Action">

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<narrative>

</narrative>

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<displayheight>30</displayheight>

<inputs>

<input type="text" name="Address URL" narrative="The URL to send the HTTP data to" expr="[Resource U

<input type="text" name="Body" narrative="The body text of the HTTP request" expr=""/>

<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" expr=""/>

<input type="text" name="Content Type" narrative="The content type of the HTTP request." expr="&q

<input type="text" name="Method" narrative="The method of the HTTP request." expr="&quot;GET&a

<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" expr=""/>

<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" expr=""/>

<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" expr=""/>

<input type="collection" name="Headers" narrative="OPTIONAL: Headers" expr="[Headers]"/>

<input type="text" name="Accept" narrative="OPTIONAL: Accept" expr=""/>

<input type="text" name="Username" narrative="OPTIONAL: Basic Authentication username" expr=""/>

<input type="password" name="Password" narrative="OPTIONAL: Basic Authenction password" expr=""/>

<input type="text" name="Certificate ID" narrative="OPTIONAL: The id of the client authentication certificat

</inputs>

<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Result"/>

</outputs>

<onsuccess>14c6d072-a68c-4004-b6af-a2b8bea0d8d8</onsuccess>

<resource object="Utility - HTTP" action="HTTP Request"/>

</stage>

<stage stageid="d87bdfbf-df9a-4c03-a3d5-b919507debee" name="Add Row" type="Action">

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<narrative>

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<inputs>

<input type="text" name="Collection Name" narrative="The name of the collection to be modified" expr="&

</inputs>

<onsuccess>416074df-5112-4888-ad6c-991fb3b3474c</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Add Row"/>

</stage>

<stage stageid="416074df-5112-4888-ad6c-991fb3b3474c" name="Set Auth" type="Calculation">

<subsheetsid>1cfc2c33-3381-4972-abb6-b529f18cfa44</subsheetsid>

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<onsuccess>7890b5bd-d874-4614-867b-fbe8d908ed1a</onsuccess>
<calculation expression="&quot;MAC &quot; & & [Access Token]" stage="Headers.Auth
</stage>

<stage stageid="55e01eb9-1362-4f39-928b-676accdf1759" name="Exception1" type="Exception">
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<exception type="" detail="&quot;Unknown Token Type&quot;"/>
</stage>

<stage stageid="121d6fb5-4e5a-47bb-8058-b9f1b72d0f86" name="Get Token Type" type="Calculation">
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<onsuccess>a7572632-0116-49be-862c-ebda9ae96b3b</onsuccess>
<calculation expression="[ResultData.token_type]" stage="Token Type"/>
</stage>
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<stage stageid="dbb0e412-52d3-4384-aed3-264bf402b427" name="Resource URL" type="Data">
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<stage stageid="af874112-9010-423a-ae9e-17007d17f62c" name="Start" type="Start">
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<inputs>
<input type="text" name="Resource URL" narrative="The url for the resource" stage="Resource URL"/>
<input type="text" name="Username" narrative="Username for HTTP Basic auth" stage="Username"/>
```

```
<input type="password" name="Password" narrative="Password for HTTP Basic auth" stage="Password"/>
<input type="collection" name="Token" narrative="Token data in a collection" stage="ResultData"/>
<input type="text" name="Certificate ID" narrative="The id of the client authentication certificate" stage="Certificate ID"/>
<input type="text" name="Method" narrative="HTTP Method" stage="Method"/>
<input type="text" name="Content Type" narrative="HTTP Content Type" stage="Content Type"/>
<input type="text" name="Body" narrative="HTTP Body" stage="Body"/>
</inputs>
<onsuccess>121d6fb5-4e5a-47bb-8058-b9f1b72d0f86</onsuccess>
</stage>
<stage stageid="ad15b1d1-b73c-4186-a115-2b62679dfce3" name="Username" type="Data">
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<initialvalue/>
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<stage stageid="7535c438-0949-449e-83bd-c1df3bd1ae59" name="Password" type="Data">
<subsheetid>1cfc2c33-3381-4972-abb6-b529f18cfa44</subsheetid>
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```



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</initialvalueenc>

<private/>

<alwaysinit/>

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<stage stageid="4fb0385d-aa21-497c-b051-d7180524f54b" name="Request Resource" type="SubSheet">

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<loginhibit/>
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<narrative>

</narrative>

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<inputs>

<input type="text" name="Resource URL" narrative="The url for the resource" expr="[Resource URL]"/>

<input type="text" name="Username" narrative="Username for HTTP Basic auth" expr="[Username]"/>

<input type="password" name="Password" narrative="Password for HTTP Basic auth" expr="[Password]"/>

<input type="collection" name="Token" narrative="Token data in a collection" expr="[Token]"/>

<input type="text" name="Certificate ID" narrative="The id of the client authentication certificate" expr="[Certificate ID]"/>

<input type="text" name="Method" narrative="HTTP Method" expr="[Method]"/>

<input type="text" name="Content Type" narrative="HTTP Content Type" expr="[Content Type]"/>

<input type="text" name="Body" narrative="HTTP Body" expr="[Body]"/>

</inputs>

<outputs>

<output type="text" name="Result" stage="Result"/>

</outputs>

<onsuccess>8f6bf73c-8f61-4f3b-9be7-0c3e9569315b</onsuccess>

<processid>1cfc2c33-3381-4972-abb6-b529f18cfa44</processid>

</stage>

<stage stageid="8f6bf73c-8f61-4f3b-9be7-0c3e9569315b" name="End1" type="End">

<subsheetid>67318fea-06de-4ab4-b24e-c296aa10321f</subsheetid>

<loginhibit/>

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<outputs>

<output type="collection" name="Token" narrative="Token data in a collection" stage="Token"/>

<output type="text" name="Result" narrative="The result of the request" stage="Result"/>

</outputs>

</stage>

<stage stageid="66542415-bebb-40cc-bd9e-5cdb486a1d14" name="Result" type="Data">

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<narrative>

</narrative>

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<stage stageid="95a72b66-67a3-40c4-aa7a-5c95dcd11b29" name="Result" type="Data">

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</narrative>

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</stage>

<stage stageid="fed22b00-60a7-461a-84bf-1cc1e2c20ed0" name="Refresh Token" type="SubSheetInfo">

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<input type="text" name="Username" narrative="Username for HTTP Basic auth" stage="Username"/>

<input type="password" name="Password" narrative="Password for HTTP Basic auth" stage="Password"/>

<input type="collection" name="Token" narrative="Token data in a collection" stage="Token"/>

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<input type="text" name="Body" narrative="The body text of the HTTP request" expr=""grant_ty

<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" expr=""/>

<input type="text" name="Content Type" narrative="The content type of the HTTP request." expr=""q

<input type="text" name="Method" narrative="The method of the HTTP request." expr=""POST&

<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" expr=""/>

<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" expr=""/>

<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" expr=""/>

<input type="collection" name="Headers" narrative="OPTIONAL: Headers" expr=""/>

<input type="text" name="Accept" narrative="OPTIONAL: Accept" expr=""application/json"

<input type="text" name="Username" narrative="OPTIONAL: Basic Authentication username" expr="[User

<input type="password" name="Password" narrative="OPTIONAL: Basic Authenction password" expr="[Pa

</inputs>

<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Result"/>

</outputs>

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<resource object="Utility - HTTP" action="HTTP Request"/>

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<input type="text" name="Collection Name" narrative="The name of the collection whose rows are to be co

</inputs>

<outputs>

<output type="number" name="Count" narrative="The number of rows counted in the collection" stage="Co

</outputs>

<onsuccess>f5ab79a6-f113-44f5-83aa-0fa96a1ef7d7</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Count Rows"/>

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<stage stageid="77fed05c-6b21-488a-bfcc-d76320b583c1" name="Count" type="Data">

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<onfalse>a19404db-3052-4350-8fd8-9b2ca20b304d</onfalse>

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<input type="text" name="Subject" narrative="OPTIONAL: The subject of the certificate if loading from the

<input type="password" name="Password" narrative="OPTIONAL: The password to load the certificate if n

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<output type="text" name="Certificate ID" narrative="The ID of the certificate" stage="Certificate ID"/>

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<resource object="Utility - HTTP" action="Load Certificate"/>

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<diagnose>False</diagnose>

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<view>

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<reference>System.Drawing.dll</reference>

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<stage stageid="02146cc7-4928-4bae-a02c-42908b228c73" name="Start" type="Start">

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<loginhibit/>

<narrative>

</narrative>

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</stage>

<stage stageid="a4e10117-0b86-421d-b7bb-bd691e357b00" name="End" type="End">

<subsheetid>206bb6ee-e6ba-4f39-b20c-e23f5f307a8b</subsheetid>

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<stage stageid="2f55b486-845c-473d-be09-c045226877f3" name="Get" type="SubSheetInfo">

<subsheetid>45072ac5-d810-496f-9529-1bd859241e0b</subsheetid>

<narrative>Action to get a resource via the REST API using the GET method.</narrative>

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<narrative>

</narrative>

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<inputs>

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</inputs>

<onsuccess>4acd6a3b-907c-4493-86ac-2413a56b7f66</onsuccess>

</stage>

<stage stageid="8056afa2-f43c-48aa-817b-13af7a4d9337" name="End" type="End">

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<outputs>

<output type="collection" name="Result" stage="Result"/>

</outputs>

</stage>
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<subsheetsid>206bb6ee-e6ba-4f39-b20c-e23f5f307a8b</subsheetsid>
<narrative>Clean Up Page
```

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

```
<displayx>-180</displayx>
<displayy>60</displayy>
<displaywidth>180</displaywidth>
<displayheight>230</displayheight>
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<stage stageid="6c018dde-6e5a-424b-bbd2-4488261debe3" name="new" type="Note">
<narrative>Initialise Page
```

This is an optional page where you might choose to perform some initialisation tasks after your business of

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

```
<displayx>-180</displayx>
<displayy>60</displayy>
<displaywidth>180</displaywidth>
<displayheight>230</displayheight>
```


</stage>

<stage stageid="2f58aa91-f860-4ca4-9acb-5f02e2b5a380" name="Post" type="SubSheetInfo">

<subsheetsid>1ccb73b7-08a9-4dc0-9614-fad8e1b3ee63</subsheetsid>

<narrative>Action to create a resource via the REST API using the POST method.</narrative>

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<stage stageid="e2611545-18f9-4b7c-9dfe-a5d008d9c98b" name="Put" type="SubSheetInfo">

<subsheetsid>4cc8c263-9485-48a7-9d85-cb0d25683a40</subsheetsid>

<narrative>Action to update a resource via the REST API using the PUT method.</narrative>

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<stage stageid="161e5dad-bace-4b18-86ce-e2377c8b8c41" name="Delete" type="SubSheetInfo">

<subsheetsid>7b2abd9b-49a0-4828-9bd8-4ab7a0a713a5</subsheetsid>

<narrative>Action to delete a resource via the REST API using the DELETE method.</narrative>

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<displayheight>30</displayheight>

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<inputs>
```



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<input type="text" name="Address URL " narrative="The adress of the API method." stage="Address URL"/>
<input type="collection" name="Data" narrative="The data to be passed to the REST API." stage="Data"/>
</inputs>

<onsuccess>f061dcb0-b584-432b-b496-6d5e84add45c</onsuccess>

</stage>

<stage stageid="19956b49-eba1-4835-b630-7509ba4094a2" name="Address URL" type="Data">

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</narrative>

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<narrative>

</narrative>

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<stage stageid="f061dcb0-b584-432b-b496-6d5e84add45c" name="Convert data to JSON" type="Action">
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<font family="Tahoma" size="10" style="Regular" color="000000"/>
<inputs>
<input type="collection" name="Data" expr="[Data]"/>
</inputs>
<outputs>
<output type="text" name="JSON" stage="JSON"/>
</outputs>
<onsuccess>0ac97749-8120-423f-aa8c-239ad0626af4</onsuccess>
<resource object="Utility - JSON" action="Collection to JSON"/>
</stage>
<stage stageid="47cc4d30-bd02-4d73-b45e-a1b6bac28573" name="JSON" type="Data">
<subsheetid>1ccb73b7-08a9-4dc0-9614-fad8e1b3ee63</subsheetid>
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</narrative>

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</stage>

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<inputs>

<input type="text" name="json" expr="[Response]"/>

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<outputs>

<output type="collection" name="Result" stage="Result"/>

</outputs>
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<onsuccess>8056afa2-f43c-48aa-817b-13af7a4d9337</onsuccess>

<resource object="Utility - JSON" action="JSON to Collection"/>

</stage>

<stage stageid="056e289e-9189-4e09-a287-b964b5b48190" name="Response" type="Data">

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<outputs>

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</stage>

<stage stageid="0c69da42-34d9-404a-bb46-c54757f9db29" name="Convert response" type="Action">

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<inputs>

<input type="text" name="json" expr="[Response]"/>

</inputs>

<outputs>

<output type="collection" name="Result" stage="Result"/>

</outputs>

<onsuccess>282d0cca-3226-437b-86a6-c979d7136b8c</onsuccess>

<resource object="Utility - JSON" action="JSON to Collection"/>

</stage>

<stage stageid="399911e4-9c13-4a67-8104-17b68d48fc02" name="Result" type="Collection">

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<inputs>

<input type="text" name="Address URL" narrative="The adress of the API method." stage="Address URL"/>

<input type="collection" name="Data" narrative="The data to be passed to the REST API." stage="Data"/>

</inputs>

<onsuccess>f791f896-d073-4ac4-9b21-30c6cfab2213</onsuccess>

</stage>

<stage stageid="44394618-c159-40b5-a235-016c41c2235d" name="Address URL" type="Data">

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<stage stageid="f791f896-d073-4ac4-9b21-30c6cfab2213" name="Convert data to JSON" type="Action">

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<inputs>

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</inputs>

<outputs>

<output type="text" name="JSON" stage="JSON"/>

</outputs>

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<resource object="Utility - JSON" action="Collection to JSON"/>

</stage>

<stage stageid="42441cfc-0902-4db6-9424-d196b2dde4ef" name="JSON" type="Data">

<subsheetsid>4cc8c263-9485-48a7-9d85-cb0d25683a40</subsheetsid>

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<outputs>

<output type="collection" name="Result" stage="Result"/>

</outputs>

</stage>

<stage stageid="fee30318-0209-47aa-84ec-b3a5ee03c836" name="Convert response" type="Action">

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<narrative>

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<inputs>

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<outputs>

<output type="collection" name="Result" stage="Result"/>

</outputs>

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<resource object="Utility - JSON" action="JSON to Collection"/>

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<stage stageid="383d320f-6cfe-42a8-9a63-a52457c1da9c" name="Result" type="Collection">

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</stage>

<stage stageid="49d72e7b-d71f-4ab6-91e3-4ce578f6cecd" name="End" type="End">

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<narrative>

</narrative>

<displayx>75</displayx>

<displayy>60</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Token URL" narrative="The url for the token request" expr="[Token URL]"/>

<input type="text" name="Resource URL" narrative="The url for the resource" expr="[Address URL]"/>

<input type="text" name="Username" narrative="Username for HTTP Basic auth" expr="[Username]"/>

<input type="password" name="Password" narrative="Password for HTTP Basic auth" expr="[Password]"/>

<input type="collection" name="Token" narrative="Token data in a collection" expr="[Token]"/>

<input type="text" name="Certificate ID" narrative="The id of the client authentication certificate" expr="[Ce

<input type="text" name="Method" narrative="HTTP Method" expr=""POST""/>

<input type="text" name="Content Type" narrative="HTTP Content Type" expr=""application/json""/>

<input type="text" name="Body" narrative="HTTP Body" expr="[JSON]"/>

</inputs>

<outputs>

<output type="collection" name="Token" narrative="Token data in a collection" stage="Token"/>

<output type="text" name="Result" narrative="The result of the request" stage="Response"/>

</outputs>

<onsuccess>0c69da42-34d9-404a-bb46-c54757f9db29</onsuccess>

<resource object="Webservices - OAuth2.0" action="Request"/>

</stage>

<stage stageid="987c8693-c16a-4631-aab8-421d93c08418" name="Setup OAuth" type="SubSheetInfo">

<subsheetsid>bc6c3590-2b1f-42ed-a8ca-c65bf7bc2cd1</subsheetsid>

<narrative>Sets the REST VBO up for use with OAuth2.0 </narrative>

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<displayy>-105</displayy>

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</stage>

<stage stageid="9b8fb7f1-1fa8-445f-9a21-dc7774a82d0a" name="Start" type="Start">

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<narrative>

</narrative>

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<inputs>

<input type="text" name="Token URL" narrative="The url for the token request" stage="Token URL"/>

<input type="text" name="Username" narrative="Username for HTTP Basic authentication" stage="Userna

<input type="password" name="Password" narrative="Password for HTTP Basic authentication" stage="Pa

<input type="text" name="Certificate Filename" narrative="OPTIONAL: Filename for the Client Authentica

<input type="text" name="Certificate Subject" narrative="OPTIONAL: Subject for the Client Authentication

<input type="password" name="Certificate Password" narrative="The password for the Client Authentication

</inputs>

<onsuccess>b212f6ab-4161-464c-aae8-38faf80f2d6c</onsuccess>

</stage>

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<input type="text" name="Resource URL" narrative="The url for the resource" expr="[Address URL]"/>

<input type="text" name="Username" narrative="Username for HTTP Basic auth" expr="[Username]"/>

<input type="password" name="Password" narrative="Password for HTTP Basic auth" expr="[Password]"/>

<input type="collection" name="Token" narrative="Token data in a collection" expr="[Token]"/>

<input type="text" name="Certificate ID" narrative="The id of the client authentication certificate" expr="[Ce

<input type="text" name="Method" narrative="HTTP Method" expr=""GET""/>

<input type="text" name="Content Type" narrative="HTTP Content Type" expr=""application/json" />

<input type="text" name="Body" narrative="HTTP Body" expr="" />

</inputs>

<outputs>

<output type="collection" name="Token" narrative="Token data in a collection" stage="Token" />

<output type="text" name="Result" narrative="The result of the request" stage="Response" />

</outputs>

<onsuccess>be274dda-1caf-4fc4-b1b2-6b8cbc98750a</onsuccess>

<resource object="Webservices - OAuth2.0" action="Request" />

</stage>

<stage stageid="6a94567e-9f64-4f00-ac7b-1b6ab6c81f6e" name="Make OAuth Request" type="Action">

<subsheetsid>4cc8c263-9485-48a7-9d85-cb0d25683a40</subsheetsid>

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<input type="text" name="Resource URL" narrative="The url for the resource" expr="[Address URL]" />

<input type="text" name="Username" narrative="Username for HTTP Basic auth" expr="[Username]" />

<input type="password" name="Password" narrative="Password for HTTP Basic auth" expr="[Password]" />

<input type="collection" name="Token" narrative="Token data in a collection" expr="[Token]" />

<input type="text" name="Certificate ID" narrative="The id of the client authentication certificate" expr="[Certificate ID]" />

<input type="text" name="Method" narrative="HTTP Method" expr=""PUT""/>

<input type="text" name="Content Type" narrative="HTTP Content Type" expr=""application/json""/>

<input type="text" name="Body" narrative="HTTP Body" expr="[JSON]"/>

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<output type="collection" name="Token" narrative="Token data in a collection" stage="Token"/>

<output type="text" name="Result" narrative="The result of the request" stage="Response"/>

</outputs>

<onsuccess>fee30318-0209-47aa-84ec-b3a5ee03c836</onsuccess>

<resource object="Webservices - OAuth2.0" action="Request"/>

</stage>

<stage stageid="b7ad19e2-aa95-4b53-9231-fa19db9c6801" name="Make OAuth Request" type="Action">

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<input type="text" name="Resource URL" narrative="The url for the resource" expr="[Address URL]"/>

<input type="text" name="Username" narrative="Username for HTTP Basic auth" expr="[Username]"/>

<input type="password" name="Password" narrative="Password for HTTP Basic auth" expr="[Password]"/>

<input type="collection" name="Token" narrative="Token data in a collection" expr="[Token]"/>

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<input type="text" name="Certificate ID" narrative="The id of the client authentication certificate" expr="[Ce
<input type="text" name="Method" narrative="HTTP Method" expr="&quot;DELETE&quot;"/>
<input type="text" name="Content Type" narrative="HTTP Content Type" expr="&quot;application/json
<input type="text" name="Body" narrative="HTTP Body" expr=""/>

</inputs>

<outputs>

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<output type="text" name="Result" narrative="The result of the request" stage="Response"/>

</outputs>

<onsuccess>49d72e7b-d71f-4ab6-91e3-4ce578f6cecd</onsuccess>

<resource object="Webservices - OAuth2.0" action="Request"/>

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<stage stageid="b212f6ab-4161-464c-aae8-38faf80f2d6c" name="Load Certificate" type="Action">
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<input type="text" name="Subject" narrative="OPTIONAL: The subject of the certificate if loading from the
<input type="password" name="Password" narrative="OPTIONAL: The password to load the certificate if n

</inputs>
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<outputs>

<output type="text" name="Certificate ID" stage="Certificate ID"/>

</outputs>

<onsuccess>ccd8a634-c1bf-40fc-996a-d5b21538f517</onsuccess>

<resource object="Webservices - OAuth2.0" action="Load Certificate"/>

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<stage stageid="e459aef7-c93c-461a-b95c-9eb523e3d241" name="Filename" type="Data">

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<stage stageid="ccd8a634-c1bf-40fc-996a-d5b21538f517" name="Set Use OAuth" type="Calculation">

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<input type="text" name="Username" narrative="OPTIONAL: Basic Authentication username" expr=""/>
<input type="password" name="Password" narrative="OPTIONAL: Basic Authenction password" expr=""/>
<input type="text" name="Certificate ID" narrative="OPTIONAL: The id of the client authentication certificat
</inputs>

<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Response"/>
</outputs>

<onsuccess>0c69da42-34d9-404a-bb46-c54757f9db29</onsuccess>

<resource object="Utility - HTTP" action="HTTP Request"/>

</stage>

<stage stageid="0ac97749-8120-423f-aa8c-239ad0626af4" name="Use OAuth" type="Decision">

<subsheetsid>1ccb73b7-08a9-4dc0-9614-fad8e1b3ee63</subsheetsid>

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<onfalse>2970ec68-c495-466e-8a7a-8d36da8d39e3</onfalse>

</stage>

<stage stageid="2e08d7d3-68d0-4afb-837f-51fed8e5208b" name="Make HTTP request" type="Action">

<subsheetsid>4cc8c263-9485-48a7-9d85-cb0d25683a40</subsheetsid>

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<narrative>

</narrative>

$$-45$$
$$75$$
$$90$$
$$30$$

<inputs>

</inputs>

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</outputs>

<onsuccess>fee30318-0209-47aa-84ec-b3a5ee03c836</onsuccess>

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<resource object="Utility - HTTP" action="HTTP Request"/>
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</stage>

<stage stageid="c5f2c977-d290-4c31-a8fb-a43704d69c5a" name="Use OAuth" type="Decision">

<subsheetid>4cc8c263-9485-48a7-9d85-cb0d25683a40</subsheetid>

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<onfalse>2e08d7d3-68d0-4afb-837f-51fed8e5208b</onfalse>

</stage>

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<inputs>

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<input type="text" name="Body" narrative="The body text of the HTTP request" expr=""/>

<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" expr=""/>

<input type="text" name="Content Type" narrative="The content type of the HTTP request." expr="&q"/>

<input type="text" name="Method" narrative="The method of the HTTP request." expr="&quot;GET&a"/>

<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" expr=""/>

<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" expr=""/>

<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" expr=""/>

<input type="collection" name="Headers" narrative="OPTIONAL: Headers" expr=""/>

<input type="text" name="Accept" narrative="OPTIONAL: Accept" expr=""/>

<input type="text" name="Username" narrative="OPTIONAL: Basic Authentication username" expr=""/>

<input type="password" name="Password" narrative="OPTIONAL: Basic Authenction password" expr=""/>

<input type="text" name="Certificate ID" narrative="OPTIONAL: The id of the client authentication certificat

</inputs>

<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Response"/>

</outputs>

<onsuccess>be274dda-1caf-4fc4-b1b2-6b8cbc98750a</onsuccess>

<resource object="Utility - HTTP" action="HTTP Request"/>

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<onfalse>0ed81f3d-606c-4360-be7b-7db023c451e9</onfalse>

</stage>

<stage stageid="2c78a3d5-e864-477c-af30-dcd775c2de6a" name="Make HTTP request" type="Action">

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<input type="text" name="Body" narrative="The body text of the HTTP request" expr=""/>

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<input type="text" name="Content Type" narrative="The content type of the HTTP request." expr=""Content Type""/>

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<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" expr=""/>

<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" expr=""/>

<input type="collection" name="Headers" narrative="OPTIONAL: Headers" expr=""/>

<input type="text" name="Accept" narrative="OPTIONAL: Accept" expr=""/>

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<outputs>

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<resource object="Utility - HTTP" action="HTTP Request"/>

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<decision expression="[Use OAuth]"/>

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<onfalse>2c78a3d5-e864-477c-af30-dcd775c2de6a</onfalse>

</stage>

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<basetype>Application</basetype>

<id>653cdfd1-e102-4ab2-8d0e-c1f1b1bcd1e0</id>

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<diagnose>False</diagnose>

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<basetype>Button</basetype>

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</attribute>

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</attribute>

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</element>

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<stage stageid="5526a691-f697-4227-98a4-e276b0b050e8" name="new" type="Note">

<subsheetid>900a1b8d-2363-40cf-8e12-68926ac98a6e</subsheetid>
```

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="43bbd27b-4c20-4950-b5ee-42c1003d6d3a" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

```
<stage stageid="be650329-45ef-4b22-9d10-8f83891685b3" name="Verify 1" type="Navigate">
<subsheetsid>fa6cd622-2e85-4e2e-aedb-249bd507f669</subsheetsid>

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</narrative>

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<onsuccess>cfe1f356-5840-4d7f-81c8-bc3daf3f022d</onsuccess>

<step>

<element id="053428e0-f2f8-442d-866d-ccba7acf73f2"/>

<action>

<id>Verify</id>

<arguments>

<argument>

<id>highlight</id>

<value>

</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="cfe1f356-5840-4d7f-81c8-bc3daf3f022d" name="Verify 2" type="Navigate">
<subsheetsid>fa6cd622-2e85-4e2e-aedb-249bd507f669</subsheetsid>
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<onsuccess>68ce6732-e967-4775-936b-33010f40e3e5</onsuccess>

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<element id="e9348a81-4496-49fe-b3fa-75ef85721689"/>

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</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="c1a72913-cf0b-482d-a6b7-e0f9b6b0022b" name="Launch" type="SubSheetInfo">

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</narrative>
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<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

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<onsuccess>3a3e2985-2391-4999-9b7f-d0263f6873e8</onsuccess>

</stage>

<stage stageid="8153b4ea-578c-4d77-9d69-c266956ab980" name="End" type="End">

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<step>

<element id="653cdfd1-e102-4ab2-8d0e-c1f1b1bcd1e0"/>

<action>

<id>Launch</id>

</action>

</step>

<stage stageid="1293474c-8f07-474e-af00-dae869e4c0af" name="Test MatchReverse" type="SubSheetIn">

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<stage stageid="b7019754-c4f8-4ab1-9f08-628d84a5c615" name="Start" type="Start">

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</narrative>

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<onsuccess>4affc18-da4d-41bd-9220-174fd187270f</onsuccess>

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</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="4affc18-da4d-41bd-9220-174fd187270f" name="Verify 2" type="Navigate">

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</value>

</argument>

</arguments>

</action>

</step>

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<displayheight>30</displayheight>

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</stage>

<stage stageid="b163c4b4-f752-44ed-a204-d2e1f938949b" name="Terminate" type="Navigate">

<subsHEETid>28e21d59-4d61-408c-9377-c5959e4b24b1</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

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<onsuccess>0a6903dc-5420-491d-be9e-ea2beb0bea75</onsuccess>

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<id>Terminate</id>

</action>

</step>

</stage>

<stage stageid="2da7eb68-541c-41a9-8a55-00c20285d9b8" name="Test AncestorCount" type="SubShee

<subsHEETid>9ee3c365-f29c-4fe1-a37c-42383bdc8c99</subsHEETid>

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</stage>

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<onsuccess>c991e054-a7a0-4d1e-b160-8d073d23be63</onsuccess>

</stage>

<stage stageid="86f187b1-71fe-4f57-b08e-6a3082eb0611" name="End" type="End">

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<displayheight>30</displayheight>

</stage>

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<onsuccess>86f187b1-71fe-4f57-b08e-6a3082eb0611</onsuccess>

<step>

<element id="24e22eb8-2102-4026-b421-04e06f9fcf4a">

<elementparameter>

<name>AncestorCount</name>

<expression>[AncestorCount]</expression>

<datatype>number</datatype>

<comparisontype>Equal</comparisontype>

</elementparameter>

</element>

<action>

<id>Verify</id>

<arguments>

<argument>

<id>highlight</id>

<value>

</value>

</argument>

</arguments>
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</action>

</step>

</stage>

<stage stageid="5bd65ff8-5379-4cf8-b8e4-f6306513d53a" name="Time Out1" type="WaitEnd">

<subsheetid>15f3dc2d-86e6-4e45-8724-f6c69eb87b45</subsheetid>

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<groupid>0f5c04c1-f9ed-46a3-aa38-aa0358860b15</groupid>

</stage>

<stage stageid="8339ea3d-53b6-4450-becc-7db5d9ca52c9" name="Wait1" type="WaitStart">

<subsheetid>15f3dc2d-86e6-4e45-8724-f6c69eb87b45</subsheetid>

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<groupid>0f5c04c1-f9ed-46a3-aa38-aa0358860b15</groupid>

<choices>
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<choice reply="True">

<name>MatchIndex Check Exists</name>

<distance>60</distance>

<ontrue>8153b4ea-578c-4d77-9d69-c266956ab980</ontrue>

<element id="053428e0-f2f8-442d-866d-ccba7acf73f2"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>60</timeout>

</stage>

<stage stageid="c991e054-a7a0-4d1e-b160-8d073d23be63" name="Windows7" type="Decision">

<subsheetid>9ee3c365-f29c-4fe1-a37c-42383bdc8c99</subsheetid>

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<narrative>

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<decision expression="GetOSVersionMajor()>=6 AND GetOSVersionMinor()>=1"/>

<ontrue>3153e66d-f849-4abf-a5a0-6409cbf0742c</ontrue>

<onfalse>f519cc76-53bc-4710-b297-d33af86190ce</onfalse>

</stage>


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<stage stageid="3153e66d-f849-4abf-a5a0-6409cbf0742c" name="Verify Win7" type="Navigate">
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<elementparameter>
<name>AncestorCount</name>
<expression>[AncestorCount]</expression>
<datatype>number</datatype>
<comparisontype>Equal</comparisontype>
</elementparameter>
</element>
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<id>Verify</id>
<arguments>
<argument>
<id>highlight</id>
<value>
</value>
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```
</argument>

</arguments>

</action>

</step>

</stage>

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<decision expression="GetOSVersionMajor()&lt;=5 AND GetOSVersionMinor()&lt;=0"/>

<ontrue>27672905-d5cf-4587-9352-b54f43b59fef</ontrue>

<onfalse>8fdfaab7-c2ea-4c08-9fbb-40749695ba4e</onfalse>

</stage>

<stage stageid="27672905-d5cf-4587-9352-b54f43b59fef" name="Verify Win2k" type="Navigate">

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<onsuccess>86f187b1-71fe-4f57-b08e-6a3082eb0611</onsuccess>

<step>

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<elementparameter>

<name>AncestorCount</name>

<expression>[AncestorCount]</expression>

<datatype>number</datatype>

<comparisontype>Equal</comparisontype>

</elementparameter>

</element>

<action>

<id>Verify</id>

<arguments>

<argument>

<id>highlight</id>

<value>

</value>

</argument>

</arguments>

</action>

</step>

</stage>

</process>

<process name="Wordpad" version="1.0" narrative="Wordpad" type="object" runmode="Exclusive" preferr

<appdef>
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<element name="Wordpad">
<type>Application</type>
<basetype>Application</basetype>
<id>fb5f572c-1a92-48ff-94de-6430f1ecf116</id>
<datatype>unknown</datatype>
<diagnose>False</diagnose>
<element name="Main Window">
<type>Window</type>
<basetype>Window</basetype>
<id>4fc13309-a506-4a85-9f61-2c04b979dfb4</id>
<datatype>text</datatype>
<diagnose>False</diagnose>
<attributes>
<attribute name="WindowText" inuse="True">
<ProcessValue datatype="text" value="Document - WordPad"/>
</attribute>
<attribute name="ClassName" inuse="True">
<ProcessValue datatype="text" value="WordPadClass"/>
</attribute>
<attribute name="CtrlID">
<ProcessValue datatype="number" value="-1141943224"/>
</attribute>
<attribute name="X">
<ProcessValue datatype="number" value="66"/>
</attribute>
<attribute name="Y">
<ProcessValue datatype="number" value="66"/>
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</attribute>

<attribute name="Width">

<ProcessValue datatype="number" value="769"/>

</attribute>

<attribute name="Height">

<ProcessValue datatype="number" value="522"/>

</attribute>

<attribute name="Visible" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Enabled" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Active">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Ordinal">

<ProcessValue datatype="number" value="2"/>

</attribute>

<attribute name="ChildCount">

<ProcessValue datatype="number" value="7"/>

</attribute>

</attributes>

<element name="Main Toolbar">

<type>Toolbar</type>

<basetype>Toolbar</basetype>

<id>3a083180-a46a-4ed8-b241-d13595da1e07</id>
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<datatype>text</datatype>

<diagnose>False</diagnose>

<attributes>

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<ProcessValue datatype="text" value="Standard"/>

</attribute>

<attribute name="ClassName" inuse="True">

<ProcessValue datatype="text" value="ToolbarWindow32"/>

</attribute>

<attribute name="CtrlID">

<ProcessValue datatype="number" value="0"/>

</attribute>

<attribute name="X">

<ProcessValue datatype="number" value="-2"/>

</attribute>

<attribute name="Y" inuse="True">

<ProcessValue datatype="number" value="-2"/>

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<attribute name="Width">

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<attribute name="Height">

<ProcessValue datatype="number" value="33"/>

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<attribute name="Visible" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

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</attribute>  
  
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<attribute name="ChildCount">  
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</attribute>  
  
<attribute name="pWindowText">  
<ProcessValue datatype="text" value="Standard"/>  
</attribute>  
  
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<ProcessValue datatype="number" value="0"/>  
</attribute>  
  
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</attribute>
```

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<attribute name="pWidth">
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</attribute>
<attribute name="pHeight">
<ProcessValue datatype="number" value="61"/>
</attribute>
<attribute name="pActive">
<ProcessValue datatype="flag" value="False"/>
</attribute>
<attribute name="pOrdinal">
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</attribute>
<attribute name="pChildCount">
<ProcessValue datatype="number" value="2"/>
</attribute>
</attributes>
</element>
</element>
<element name="Status Bar">
<type>Window</type>
<basetype>Window</basetype>
<id>6285c18a-6d73-4eea-80dc-480c14b1f9b2</id>
<datatype>text</datatype>
<diagnose>False</diagnose>
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<attribute name="WindowText">
<ProcessValue datatype="text" value="For Help, press F1"/>
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</attribute>

<attribute name="ClassName" inuse="True">

<ProcessValue datatype="text" value="msctls_statusbar32"/>

</attribute>

<attribute name="CtrlID">

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</attribute>

<attribute name="X">

<ProcessValue datatype="number" value="0"/>

</attribute>

<attribute name="Y">

<ProcessValue datatype="number" value="457"/>

</attribute>

<attribute name="Width">

<ProcessValue datatype="number" value="761"/>

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<attribute name="Height">

<ProcessValue datatype="number" value="19"/>

</attribute>

<attribute name="Visible" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Enabled" inuse="True">

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</attribute>

<attribute name="Active">

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</attribute>

<attribute name="Ordinal">

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</attribute>

<attribute name="ChildCount">

<ProcessValue datatype="number" value="0"/>

</attribute>

<attribute name="pWindowText">

<ProcessValue datatype="text" value="Document - WordPad"/>

</attribute>

<attribute name="pCtrlID">

<ProcessValue datatype="number" value="-1141943224"/>

</attribute>

<attribute name="pX">

<ProcessValue datatype="number" value="66"/>

</attribute>

<attribute name="pY">

<ProcessValue datatype="number" value="66"/>

</attribute>

<attribute name="pWidth">

<ProcessValue datatype="number" value="769"/>

</attribute>

<attribute name="pHeight">

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</attribute>

<attribute name="pActive">

<ProcessValue datatype="flag" value="True"/>

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<ProcessValue datatype="number" value="2"/>

</attribute>

<attribute name="pChildCount">

<ProcessValue datatype="number" value="7"/>

</attribute>

</attributes>

</element>

<element name="Open Document Window">

<type>Window</type>

<basetype>Window</basetype>

<id>ebaac658-e59b-4525-a1e5-3a9faae46287</id>

<datatype>text</datatype>

<diagnose>False</diagnose>

<attributes>

<attribute name="WindowText" inuse="True">

<ProcessValue datatype="text" value="Open"/>

</attribute>

<attribute name="ClassName" inuse="True">

<ProcessValue datatype="text" value="#32770"/>

</attribute>

<attribute name="CtrlID">

<ProcessValue datatype="number" value="0"/>

</attribute>

<attribute name="X">

<ProcessValue datatype="number" value="514"/>

</attribute>

<attribute name="Y">

<ProcessValue datatype="number" value="215"/>

</attribute>

<attribute name="Width">

<ProcessValue datatype="number" value="564"/>

</attribute>

<attribute name="Height">

<ProcessValue datatype="number" value="413"/>

</attribute>

<attribute name="Visible" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="ScreenVisible" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Enabled" inuse="True">

<ProcessValue datatype="flag" value="True"/>

</attribute>

<attribute name="Active">

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</attribute>

<attribute name="Ordinal">

<ProcessValue datatype="number" value="6"/>

</attribute>

<attribute name="ChildCount">

<ProcessValue datatype="number" value="17"/>

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</attribute>

</attributes>

<element name="Cancel Button">

<type>Button</type>

<basetype>Button</basetype>

<id>0a0f2cd6-6774-44c9-bb04-d6aadf4b1428</id>

<datatype>text</datatype>

<diagnose>False</diagnose>

<attributes>

<attribute name="WindowText">

<ProcessValue datatype="text" value="Cancel"/>

</attribute>

<attribute name="ClassName" inuse="True">

<ProcessValue datatype="text" value="Button"/>

</attribute>

<attribute name="CtrlID">

<ProcessValue datatype="number" value="0"/>

</attribute>

<attribute name="X">

<ProcessValue datatype="number" value="474"/>

</attribute>

<attribute name="Y">

<ProcessValue datatype="number" value="354"/>

</attribute>

<attribute name="Width" inuse="True">

<ProcessValue datatype="number" value="76"/>

</attribute>
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<attribute name="Height" inuse="True">
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</attribute>
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<ProcessValue datatype="flag" value="False"/>
</attribute>
<attribute name="ScreenVisible" inuse="True">
<ProcessValue datatype="flag" value="False"/>
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<ProcessValue datatype="flag" value="False"/>
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<ProcessValue datatype="flag" value="False"/>
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</attribute>
<attribute name="ChildCount">
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</attribute>
<attribute name="pCtrlID">
<ProcessValue datatype="number" value="0"/>
</attribute>
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<attribute name="pX">

<ProcessValue datatype="number" value="514"/>

</attribute>

<attribute name="pY">

<ProcessValue datatype="number" value="215"/>

</attribute>

<attribute name="pWidth">

<ProcessValue datatype="number" value="564"/>

</attribute>

<attribute name="pHeight">

<ProcessValue datatype="number" value="413"/>

</attribute>

<attribute name="pActive">

<ProcessValue datatype="flag" value="True"/>

</attribute>

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<attribute name="pChildCount">

<ProcessValue datatype="number" value="17"/>

</attribute>

</attributes>

</element>

</element>

</element>

<apptypeinfo>

<id>Win32Launch</id>

<name>My application is launched from an executable file</name>

<parameters>

<parameter>

<name>Path</name>

<type>File</type>

<values/>

<value>C:\Program Files\Windows NT\Accessories\wordpad.exe</value>

<acceptsnull>False</acceptsnull>

<filefilter>Executable Files (*.exe)|*.exe</filefilter>

<helptext>Enter the path to the application executable, or use the Browse button</helptext>

</parameter>

<parameter>

<name>CommandLineParams</name>

<type>String</type>

<values/>

<value>

</value>

<acceptsnull>True</acceptsnull>

<filefilter>

</filefilter>

<helptext>Enter the command line parameters (if any) to be passed to the target application</helptext>

</parameter>

<parameter>

<name>NonInvasive</name>

<type>Boolean</type>

<values/>

<value>True</value>

<acceptsnull>False</acceptsnull>

<filefilter>

</filefilter>

<helptext>Restrict to non-invasive automation techniques</helptext>

</parameter>

</parameters>

</apptypeinfo>

</appdef>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="427b3757-1259-4866-9fe1-8d74b2c8df37" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

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<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="299ad42e-2e62-4c42-b0bc-519427235aff" type="Normal" published="False">

<name>Sleep</name>

<view>

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<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="316d7b4b-8c27-43af-8873-d586148a2e47" type="Normal" published="True">

<name>Close Application</name>

<view>

<camerax>0</camerax>

<cameray>122</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="31e112ca-6627-4da4-bafa-d47ac9af94f6" type="Normal" published="True">

<name>Hide Status Bar</name>

<view>

<camerax>0</camerax>

<cameray>-63</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="015315b9-1fcd-4b7c-bfe2-75de5ac952c6" type="Normal" published="True">

<name>Show Status Bar</name>

<view>

<camerax>0</camerax>

<cameray>90</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="da9bbfe9-2068-498c-a49d-d85223c41845" type="Normal" published="True">

<name>Test Toolbar Buttons</name>

<view>

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<zoom>1</zoom>

</view>

</subsheet>

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</narrative>

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<onsuccess>9c82fd83-3ebd-4533-9652-8476da691546</onsuccess>

</stage>

<stage stageid="9c82fd83-3ebd-4533-9652-8476da691546" name="End" type="End">

<loginhibit/>

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</stage>

<stage stageid="6d053680-6125-48ad-9e22-7ab4f0d43711" name="Stage1" type="ProcessInfo">

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</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

</stage>

<stage stageid="c08c1793-3dcb-4742-8a26-ba1b5cc9b5f4" name="Clean Up" type="SubSheetInfo">

<subsheetsid>427b3757-1259-4866-9fe1-8d74b2c8df37</subsheetsid>

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</stage>

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<subsheetsid>80c1d0ff-2dbb-4276-9d70-19c733c230e1</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>
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```
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</stage>

<stage stageid="c977ebc8-4800-44c9-a299-c877042ebdbb" name="End" type="End">

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<stage stageid="e35aa91b-7560-4b39-a562-94fb09ad99c5" name="new" type="Note">

<subsheetid>427b3757-1259-4866-9fe1-8d74b2c8df37</subsheetid>

<narrative>Clean Up Page
```

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

```
<displayx>-180</displayx>
```

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="8c8f3a19-c5dd-4e71-9006-c016d9a77754" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business object

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="dfdd400d-426d-4c2a-909e-dbeb5e11e890" name="Launch" type="Navigate">

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<loginhibit/>

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</narrative>

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<displaywidth>60</displaywidth>


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<displayheight>30</displayheight>

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<onsuccess>fc243965-1290-4413-b22f-d1f96a7a1675</onsuccess>

<step>

<element id="fb5f572c-1a92-48ff-94de-6430f1ecf116"/>

<action>

<id>Launch</id>

</action>

</step>

</stage>

<stage stageid="86a3de44-f720-4022-9fd1-9b3874883cd8" name="Time Out1" type="WaitEnd">

<subsheetid>80c1d0ff-2dbb-4276-9d70-19c733c230e1</subsheetid>

<loginhibit/>

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</narrative>

<displayx>150</displayx>

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<groupid>34554f86-2c99-45d3-9423-8daded19bd21</groupid>

</stage>

<stage stageid="fc243965-1290-4413-b22f-d1f96a7a1675" name="Wait for Main Window" type="WaitStart">

<subsheetid>80c1d0ff-2dbb-4276-9d70-19c733c230e1</subsheetid>

<loginhibit/>

<narrative>

</narrative>
```

```
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<displayy>30</displayy>

<displaywidth>60</displaywidth>

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<groupid>34554f86-2c99-45d3-9423-8daded19bd21</groupid>

<choices>

<choice reply="True">

<name>Main Window Check Exists</name>

<distance>60</distance>

<ontrue>3787855f-2c12-41ec-8bbd-751ff2a47ac0</ontrue>

<element id="4fc13309-a506-4a85-9f61-2c04b979dfb4"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>30</timeout>

</stage>

<stage stageid="48f94ace-5f5b-430c-aca5-e37c3e16228a" name="Close Application" type="SubSheetInfo">

<subsheetsid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetsid>

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</narrative>

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<displayheight>90</displayheight>

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<subsheetid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetid>

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</narrative>

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<displayy>-120</displayy>

<displaywidth>60</displaywidth>

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<onsuccess>21899c89-7927-44be-87ce-3a539a3eaeed</onsuccess>

</stage>

<stage stageid="41fae6fb-deed-4f03-a6c5-8db95de1bc53" name="End" type="End">

<subsheetid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetid>

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<displayx>75</displayx>

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<stage stageid="ec4f5daf-5cbc-4d5d-b08f-c67e322ba9c7" name="Choose "Exit" from

<subsheetid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetid>

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<narrative>

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<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<onsuccess>a3de46ef-e2fe-4f97-8129-f273e1bcffe8</onsuccess>

<step>

<element id="4fc13309-a506-4a85-9f61-2c04b979dfb4"/>

<action>

<id>SelectMenuItem</id>

<arguments>

<argument>

<id>Value</id>

<value>"{File}{Exit}"</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="e927c507-d35b-48fd-be3d-c86fd9218d4f" name="Hide Status Bar" type="SubSheetInfo">

<subsheetid>31e112ca-6627-4da4-bafa-d47ac9af94f6</subsheetid>

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<displayx>-195</displayx>

<displayy>-105</displayy>

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<displayheight>90</displayheight>

</stage>

<stage stageid="6a0fcfa8-3ab2-4b8c-833d-9a7f31119b85" name="End" type="End">

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<displayy>390</displayy>

<displaywidth>60</displaywidth>

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</stage>

<stage stageid="d31bf1b8-3879-4f5d-a6f8-541ac3587474" name="Time Out2" type="WaitEnd">

<subsheetsid>31e112ca-6627-4da4-bafa-d47ac9af94f6</subsheetsid>

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</narrative>

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<groupid>94dc9f85-1d67-4946-bae8-b98273b53ed0</groupid>

</stage>

<stage stageid="96fd44c0-6020-4085-868b-7c0642b2701a" name="Check Status Bar Exists" type="WaitS

<subsheetid>31e112ca-6627-4da4-bafa-d47ac9af94f6</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<groupid>94dc9f85-1d67-4946-bae8-b98273b53ed0</groupid>

<choices>

<choice reply="True">

<name>Status Bar Check Exists</name>

<distance>75.37407</distance>

<ontrue>a9fd454f-06d1-45be-98b0-59a21b8fb042</ontrue>

<element id="6285c18a-6d73-4eea-80dc-480c14b1f9b2"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>0.5</timeout>
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</stage>

<stage stageid="f2cb2152-cd6a-4512-ab52-c1787e39cde6" name="Note1" type="Note">

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<narrative>No Action Required</narrative>

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<onsuccess>2ee04925-38cf-43b3-8f1f-71897a0c283a</onsuccess>

</stage>

<stage stageid="a9fd454f-06d1-45be-98b0-59a21b8fb042" name="Hide using Menu Options" type="Navigation">

<subsheetsid>31e112ca-6627-4da4-bafa-d47ac9af94f6</subsheetsid>

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<narrative>

</narrative>

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<displayy>15</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<onsuccess>373317a8-f276-4c2d-b27b-a33f9496a98e</onsuccess>

<step>

<element id="4fc13309-a506-4a85-9f61-2c04b979dfb4"/>

<action>

<id>SelectMenuItem</id>

<arguments>

<argument>

<id>Value</id>

<value>"{View}{Status Bar}"</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="584a8898-cb60-49f8-a7d4-c51ca9ad296a" name="Fail" type="WaitEnd">

<subsheetid>31e112ca-6627-4da4-bafa-d47ac9af94f6</subsheetid>

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<narrative>

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<groupid>837ff642-33c0-450d-bc29-e0eb9304f747</groupid>

</stage>

<stage stageid="373317a8-f276-4c2d-b27b-a33f9496a98e" name="Check Status Bar Now Gone" type="W

<subsheetid>31e112ca-6627-4da4-bafa-d47ac9af94f6</subsheetid>

<loginhibit/>

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</narrative>

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<groupid>837ff642-33c0-450d-bc29-e0eb9304f747</groupid>

<choices>

<choice reply="False">

<name>Status Bar Check Exists</name>

<distance>75.37407</distance>

<ontrue>2ee04925-38cf-43b3-8f1f-71897a0c283a</ontrue>

<element id="6285c18a-6d73-4eea-80dc-480c14b1f9b2"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>0.5</timeout>

</stage>

<stage stageid="991d6ad6-6524-4df4-95b3-448b40a9317d" name="Show Status Bar" type="SubSheetInfo">

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<groupid>d40f432e-415d-4d30-a78a-95fef6f0a0fb</groupid>

</stage>

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<stage stageid="d3c26028-0b7c-4a23-b926-ed692ee9461a" name="Check Status Bar Exists" type="Wait$
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<choices>

<choice reply="False">

<name>Status Bar Check Exists</name>

<distance>75.37407</distance>

<ontrue>52394f24-8983-4b17-b4e0-d5fec48532b2</ontrue>

<element id="6285c18a-6d73-4eea-80dc-480c14b1f9b2"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>0.5</timeout>

</stage>

<stage stageid="52394f24-8983-4b17-b4e0-d5fec48532b2" name="Hide using Menu Options" type="Navig
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<step>

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<action>

<id>SelectMenuItem</id>

<arguments>

<argument>

<id>Value</id>

<value>"{View}{Status Bar}"</value>

</argument>

</arguments>

</action>

</step>

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<choices>

<choice reply="True">

<name>Status Bar Check Exists</name>

<distance>75.37407</distance>

<ontrue>3796b03b-ef00-4270-80bf-03ea7f2b2d58</ontrue>

<element id="6285c18a-6d73-4eea-80dc-480c14b1f9b2"/>

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</condition>

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<comparetype>Equal</comparetype>

</choice>

</choices>

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<step stage="a">

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<action>

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<arguments>

<argument>

<id>Value</id>

<value>"{Edit}{Object}"</value>

</argument>

</arguments>

</action>
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</step>

</stage>

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<stage stageid="2ee04925-38cf-43b3-8f1f-71897a0c283a" name="anchor1" type="Anchor">

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<onsuccess>87e36a3b-c7e1-4017-9622-07288d16d7a1</onsuccess>

<step stage="Checked?">

<element id="4fc13309-a506-4a85-9f61-2c04b979dfb4"/>

<action>

<id>IsMenuItemChecked</id>

<arguments>

<argument>

<id>Value</id>

<value>"{View}{Status Bar}"</value>

</argument>

</arguments>

</action>

</step>

</stage>

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</narrative>

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<onfalse>96ca033a-66bb-4319-8b0f-d0b5063987cf</onfalse>

</stage>

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</stage>

<stage stageid="3796b03b-ef00-4270-80bf-03ea7f2b2d58" name="anchor1" type="Anchor">

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<stage stageid="56bb6fa0-03e5-42f0-b99e-a84972f54298" name="Read Menu Item Checked State" type=

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<step stage="Checked?">

<element id="4fc13309-a506-4a85-9f61-2c04b979dfb4"/>

<action>

<id>IsMenuItemChecked</id>

<arguments>

<argument>

<id>Value</id>

<value>"{View}{Status Bar}"</value>

</argument>

</arguments>

</action>
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</step>

</stage>

<stage stageid="0acd9b05-96d3-4ebf-8451-0799ac2b7045" name="Checked?" type="Data">

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<onfalse>420a1cd7-a5a5-448c-8435-e1b22304cbfd</onfalse>

</stage>

<stage stageid="420a1cd7-a5a5-448c-8435-e1b22304cbfd" name="Note2" type="Note">

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<subsheetid>015315b9-1fcd-4b7c-bfe2-75de5ac952c6</subsheetid>

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</narrative>

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<step stage="Enabled">

<element id="4fc13309-a506-4a85-9f61-2c04b979dfb4"/>

<action>

<id>IsMenuItemEnabled</id>

<arguments>

<argument>

<id>Value</id>

<value>"{View}{Status Bar}"</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="cb931033-58fe-438d-a70a-fbbe998372df" name="Enabled" type="Data">

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<private/>

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<onfalse>55fb2ea8-84a6-4778-8b37-3d79ac961004</onfalse>

</stage>

<stage stageid="55fb2ea8-84a6-4778-8b37-3d79ac961004" name="Note3" type="Note">

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</narrative>

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<onsuccess>cf32a40f-d768-4812-891a-851047daf9a7</onsuccess>

</stage>

<stage stageid="cf32a40f-d768-4812-891a-851047daf9a7" name="Read Menu Item Enabled State" type="

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<loginhibit/>

<narrative>

</narrative>

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<step stage="Enabled">

<element id="4fc13309-a506-4a85-9f61-2c04b979dfb4"/>

<action>

<id>IsMenuItemEnabled</id>

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<argument>

<id>Value</id>

<value>"{View}{Status Bar}"</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="b5907c39-b835-45ff-b61c-97995d7ac099" name="Enabled" type="Data">

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<initialvalue/>

<private/>

<alwaysinit/>
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</stage>

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<subsheetid>31e112ca-6627-4da4-bafa-d47ac9af94f6</subsheetid>

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<onfalse>42341d64-e1ff-452a-8858-176faec94a93</onfalse>

</stage>

<stage stageid="42341d64-e1ff-452a-8858-176faec94a93" name="Note3" type="Note">

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<stage stageid="dc951b67-bc22-4b71-abf4-068bb1a82762" name="Test Toolbar Buttons" type="SubSheet">

<subsheetid>da9bbfe9-2068-498c-a49d-d85223c41845</subsheetid>
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</narrative>

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<onsuccess>f8306bfc-6001-4ab5-a8fd-87bc177112bb</onsuccess>

</stage>

<stage stageid="1ada8de9-cc00-4f21-af45-f5b27b7c0529" name="Click Open Button" type="Navigate">

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</narrative>

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<onsuccess>b34befd5-510a-45c6-a264-71e0faaa31b0</onsuccess>

<step>

<element id="3a083180-a46a-4ed8-b241-d13595da1e07"/>

<action>

<id>ClickToolbarButton</id>

<arguments>

<argument>

<id>position</id>

<value>2</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="47515f7e-fdd5-40c8-a62d-6619045158fe" name="Read Booleans" type="Read">

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<onsuccess>e755cf40-fcac-429f-b330-2350f07d5b93</onsuccess>

<step stage="Pressed">

<element id="3a083180-a46a-4ed8-b241-d13595da1e07"/>

<action>

<id>IsToolBarButtonPressed</id>

<arguments>

<argument>

<id>position</id>

<value>2</value>

</argument>

</arguments>

</action>

</step>

<step stage="Enabled">

<element id="3a083180-a46a-4ed8-b241-d13595da1e07"/>

<action>

<id>IsToolBarButtonEnabled</id>

<arguments>

<argument>

<id>position</id>

<value>2</value>

</argument>

</arguments>

</action>

</step>

<step stage="Checked">

<element id="3a083180-a46a-4ed8-b241-d13595da1e07"/>

<action>

<id>IsToolBarButtonChecked</id>

<arguments>

<argument>

<id>position</id>

<value>2</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="6b5b4549-0262-4871-b6ee-f4ee46275170" name="Pressed" type="Data">

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<initialvalue/>

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</stage>

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<subsheetsid>da9bbfe9-2068-498c-a49d-d85223c41845</subsheetsid>

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<initialvalue/>

<private/>

<alwaysinit/>

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<stage stageid="f8306bfc-6001-4ab5-a8fd-87bc177112bb" name="Count Items" type="Read">
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<narrative>

</narrative>

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<onsuccess>c7ebeebe-1581-40b9-8486-961af167f054</onsuccess>

<step stage="Item Count">

<element id="3a083180-a46a-4ed8-b241-d13595da1e07"/>

<action>

<id>GetItemCount</id>

</action>

</step>

</stage>

<stage stageid="56202a41-8eb6-4d34-a31d-444725babf30" name="Item Count" type="Data">

<subsheetid>da9bbfe9-2068-498c-a49d-d85223c41845</subsheetid>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="c7ebeebe-1581-40b9-8486-961af167f054" name="Verify Item Count" type="Decision">

<subsheetid>da9bbfe9-2068-498c-a49d-d85223c41845</subsheetid>

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<decision expression="[Item Count] = 15"/>

<ontrue>47515f7e-fdd5-40c8-a62d-6619045158fe</ontrue>

<onfalse>a0e570bc-499f-45a9-8dee-856ed4c5c79e</onfalse>

</stage>

<stage stageid="a0e570bc-499f-45a9-8dee-856ed4c5c79e" name="Note1" type="Note">

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<stage stageid="e755cf40-fcac-429f-b330-2350f07d5b93" name="Verify Booleans" type="Decision">

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<displayheight>30</displayheight>

<decision expression="([Checked] = False) and ([Pressed] = False) and ([Enabled] = True)"/>

<ontrue>1ada8de9-cc00-4f21-af45-f5b27b7c0529</ontrue>

<onfalse>01f05b06-1032-4340-aa38-fc132c54a45a</onfalse>

</stage>

<stage stageid="01f05b06-1032-4340-aa38-fc132c54a45a" name="Note1" type="Note">

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<stage stageid="5a494d2e-fb8d-463a-8902-7b86fa5a3551" name="Time Out1" type="WaitEnd">

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<stage stageid="b34befd5-510a-45c6-a264-71e0faaa31b0" name="Wait for Popup" type="WaitStart">

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<groupid>6a842d20-e846-47b0-90d8-a23e63ae94db</groupid>

<choices>

<choice reply="True">

<name>Popup Window Check Exists</name>

<distance>90</distance>

<ontrue>2c1ddf16-ec27-40f0-8b9f-d34aa86e3f71</ontrue>

<element id="ebaac658-e59b-4525-a1e5-3a9faae46287"/>
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<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>5</timeout>

</stage>

<stage stageid="2c1ddf16-ec27-40f0-8b9f-d34aa86e3f71" name="Cancel" type="Navigate">

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</narrative>

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<onsuccess>caa9a1cc-7845-491e-99e0-c5bccc55c28d</onsuccess>

<step>

<element id="ebaac658-e59b-4525-a1e5-3a9faae46287"/>

<action>

<id>CloseWindow</id>

</action>

</step>

</stage>

<stage stageid="20599783-ee63-4951-b784-127428c75c59" name="Note4" type="Note">

<subsheetid>da9bbfe9-2068-498c-a49d-d85223c41845</subsheetid>

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<narrative>Note there are 11 real buttons, and each of the four spaces is implemented as a button</narrative>

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</stage>

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</narrative>

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</stage>

<stage stageid="91e6dacb-0442-4af8-8821-3a9a83289745" name="Time Out3" type="WaitEnd">

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<groupid>a4e2df55-e2ed-41ec-9b9e-02db28ec503d</groupid>

</stage>

<stage stageid="21899c89-7927-44be-87ce-3a539a3eaeed" name="Wait for Main Window" type="WaitSta

<subsheetid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetid>

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<groupid>a4e2df55-e2ed-41ec-9b9e-02db28ec503d</groupid>

<choices>

<choice reply="True">

<name>Main Window Check Exists</name>

<distance>60</distance>

<ontrue>ec4f5daf-5cbc-4d5d-b08f-c67e322ba9c7</ontrue>

<element id="4fc13309-a506-4a85-9f61-2c04b979dfb4"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>
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</choice>

</choices>

<timeout>15</timeout>

</stage>

<stage stageid="64a070af-efe2-4ca1-9aba-a0ae70534271" name="Terminate" type="Navigate">

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</narrative>

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<step>

<element id="fb5f572c-1a92-48ff-94de-6430f1ecf116"/>

<action>

<id>Terminate</id>

</action>

</step>

</stage>

<stage stageid="a3de46ef-e2fe-4f97-8129-f273e1bcffe8" name="Start Time" type="Calculation">

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</narrative>
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<onsuccess>0bf2988d-97da-438a-a180-79f6a26dc2d3</onsuccess>

<calculation expression="Now()" stage="Start Time"/>

</stage>

<stage stageid="5d1498c1-1ab5-4758-b792-5e30913f48fe" name="Start Time" type="Data">

<subsheetsid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetsid>

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</stage>

<stage stageid="9c09f191-602e-4b13-8915-275e7a2baae8" name="Sleep" type="SubSheetInfo">

<subsheetsid>299ad42e-2e62-4c42-b0bc-519427235aff</subsheetsid>

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</narrative>

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<stage stageid="4760d075-8912-4325-b299-186efc699f50" name="Start" type="Start">

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<inputs>

<input type="number" name="Sleep Time (Seconds)" stage="Sleep Time (Seconds)"/>

</inputs>

<onsuccess>89a66dfb-9129-47c1-b84a-2a7d515500ad</onsuccess>

</stage>

<stage stageid="ddd1b517-f84e-4d03-bb2f-07bfec5f5864" name="End" type="End">

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<alwaysinit/>

</stage>

<stage stageid="3a48decc-dc20-4eca-8ddb-fdc02d2dcc55" name="Time Out4" type="WaitEnd">

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</narrative>

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<onsuccess>ddd1b517-f84e-4d03-bb2f-07bfec5f5864</onsuccess>

<groupid>8b275697-3853-4887-87ac-803ecaa82a13</groupid>

</stage>

<stage stageid="89a66dfb-9129-47c1-b84a-2a7d515500ad" name="Wait1" type="WaitStart">

<subsheetid>299ad42e-2e62-4c42-b0bc-519427235aff</subsheetid>

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<groupid>8b275697-3853-4887-87ac-803ecaa82a13</groupid>

<choices/>

<timeout>[Sleep Time (Seconds)]</timeout>

</stage>

<stage stageid="0bf2988d-97da-438a-a180-79f6a26dc2d3" name="Read Connected" type="Read">

<subsheetid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetid>

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</narrative>

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<onsuccess>0973acab-ae68-48a9-9e67-5171cb8ca179</onsuccess>

<step stage="Is Connected">

<element id="fb5f572c-1a92-48ff-94de-6430f1ecf116"/>

<action>

<id>IsConnected</id>

</action>

</step>

</stage>

<stage stageid="0973acab-ae68-48a9-9e67-5171cb8ca179" name="Connected?" type="Decision">

<subsheetid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetid>

<loginhibit/>

<narrative>

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<decision expression="[Is Connected]"/>

<ontrue>e17749d0-cb83-4a18-b3b1-f0cb5bb92902</ontrue>

<onfalse>41fae6fb-deed-4f03-a6c5-8db95de1bc53</onfalse>

</stage>

<stage stageid="819dd405-3307-4f17-951c-1af841daf6b4" name="Is Connected" type="Data">

<subsheetid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetid>

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<alwaysinit/>

</stage>

<stage stageid="e17749d0-cb83-4a18-b3b1-f0cb5bb92902" name="Sleep" type="SubSheet">

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<loginhibit/>

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<inputs>

<input type="number" name="Sleep Time (Seconds)" expr="5"/>

</inputs>

<onsuccess>2e6f4610-bee0-4139-a66f-15b55d46b37f</onsuccess>

<processid>299ad42e-2e62-4c42-b0bc-519427235aff</processid>

</stage>

<stage stageid="2e6f4610-bee0-4139-a66f-15b55d46b37f" name="Retry?" type="Decision">
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<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<decision expression="Now() - [Start Time] &gt; MakeTimeSpan(0,0,0,30,0)"/>

<ontrue>76deef69-5fd3-46f6-9fe8-9e3d7bfd488a</ontrue>

<onfalse>0bf2988d-97da-438a-a180-79f6a26dc2d3</onfalse>

</stage>

<stage stageid="76deef69-5fd3-46f6-9fe8-9e3d7bfd488a" name="Increment Retries" type="Calculation">

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</narrative>

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<onsuccess>acdae073-2b5b-4c22-901b-5ffed5f2190b</onsuccess>

<calculation expression="1+[Retries]" stage="Retries"/>

</stage>

<stage stageid="a4b38a87-d3c1-4f56-b69e-4bd57881d99d" name="Retries" type="Data">
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<subsheetid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetid>

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</narrative>

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<datatype>number</datatype>

<initialvalue>0</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="acdae073-2b5b-4c22-901b-5ffed5f2190b" name="Too Many Retries?" type="Decision">

<subsheetid>316d7b4b-8c27-43af-8873-d586148a2e47</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-135</displayx>

<displayy>-45</displayy>

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<decision expression="[Retries] > 3"/>

<ontrue>3a7261ad-9e3f-4a73-9c39-aa284d8d2d46</ontrue>

<onfalse>21899c89-7927-44be-87ce-3a539a3eaeed</onfalse>

</stage>

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<stage stageid="3a7261ad-9e3f-4a73-9c39-aa284d8d2d46" name="Exception1" type="Exception">
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</narrative>

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<exception type="Timeout" detail="&quot;Failed to Exit&quot;"/>

</stage>

</process>

</Root>
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