



TNMUUProcessor component

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Unit

NMUUE

Description

The TNMUUProcessor component MIME encodes or UUEncodes files and decodes MIME encoded or UUEncoded files.

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TNMUUE Events

TNMUUE

Legend

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About the TNMUUProcessor component

[TNMUUProcessor reference](#)

Purpose

The purpose of the NMUUProcessor is to encode files for transmission across the internet or an intranet, and to decode them so that they can be used in their original form.

Tasks

By simply setting the [InputFile](#) property to the file to be processed, the [Method](#) property to the style of encoding/decoding to be used, the [OutputFile](#) property for the resulting file, and finally either calling the [Encode](#) or [Decode](#) methods, a file can be encoded or decoded as needed.

InputStream property

[See Also](#)

[Example](#)

Applies to

[TNMUUProcessor](#) component

Declaration

```
property InputStream: TStream;
```

Description

The InputStream property specifies the stream that will be encoded or decoded.

Scope: Published

Accessability: RunTime

Note: This property must be set before the **Encode** or **Decode** methods are called.

See Also

[Decode](#) method

[Encode](#) method

[OutputStream](#) property

Example

To recreate this example, you will need to create a new blank Delphi application.

Place a TMemo, 2 TEdits, 3 TButtons, a TRadioGroup, a TOpenDialog, and a TNMUUProcessor on the form.

Memo1: Status window
Edit1: Name of file to encode/decode (for InputStream)
Edit2: Name of file to write encoded/decoded data to (for OutputStream)
Button1: Browse for a file to encode/decode
Button2: Encode selected file
Button3: Decode selected file
RadioGroup1: Encode/Decode methods (fill **Items** property of RadioGroup 1 with MIME and UUEncode/Decode (2 items) in that order)
OpenDialog1: For selecting the file to encode/decode

Insert the following code into Button1's OnClick event:

```
procedure TForm1.Button1Click(Sender: TObject);  
begin  
    if OpenDialog1.Execute then  
        Edit1.Text := OpenDialog1.FileName;  
end;
```

When Button1 is clicked, the OpenDialog is displayed, allowing the user to select a file. If the Open Button is clicked, the filename is placed into Edit1.

Insert the following code into Button2's OnClick event:

```
procedure TForm1.Button2Click(Sender: TObject);  
var  
    FS1,  
    FS2: TFileStream;  
begin  
    // Encode  
    FS1 := TFileStream.Create(Edit1.Text, fmOpenRead);  
    FS2 := TFileStream.Create(Edit2.Text, fmCreate);  
    try  
        case RadioGroup1.ItemIndex of  
            0: NMUUProcessor1.Method := uuMime;  
            1: NMUUProcessor1.Method := uuCode;  
        end;  
        NMUUProcessor1.InputStream := FS1;  
        NMUUProcessor1.OutputStream := FS2;  
        NMUUProcessor1.Encode;  
    finally  
        FS1.Free;  
        FS2.Free;  
    end;  
end;
```

When Button2 is clicked, 2 filestreams are created. Depending on which item in RadioGroup1 is selected, the **Method** property is set to either uuMime for MIME encoding, or uuCode for UUEncoding. The

InputStream property is set to FS1, which contains the file that will be encoded. The **OutputStream** property is set to FS2, which will contain the encoded file data. The **Encode** method encodes the data in FS1 and stores it in FS2. Note that FS1 and FS2 are freed in the **finally** section of a **try. .finally** block to ensure their resources are freed.

Insert the following code into Button3's OnClick event:

```
procedure TForm1.Button3Click(Sender: TObject);  
var  
    FS1,  
    FS2: TFileStream;  
begin  
    // Decode  
    FS1 := TFileStream.Create(Edit1.Text, fmOpenRead);  
    FS2 := TFileStream.Create(Edit2.Text, fmCreate);  
    try  
        case RadioGroup1.ItemIndex of  
            0: NMUUProcessor1.Method := uuMime;  
            1: NMUUProcessor1.Method := uuCode;  
        end;  
        NMUUProcessor1.InputStream := FS1;  
        NMUUProcessor1.OutputStream := FS2;  
        NMUUProcessor1.Decode;  
    finally  
        FS1.Free;  
        FS2.Free;  
    end;  
end;
```

When Button3 is clicked, 2 filestreams are created. Depending on which item in RadioGroup1 is selected, the **Method** property is set to either uuMime for MIME decoding, or uuCode for UUDecoding. The **InputStream** property is set to FS1, which contains the file that will be decoded. The **OutputStream** property is set to FS2, which will contain the decoded file data. The **Decode** method decodes the data in FS1 and stores it in FS2. Note that FS1 and FS2 are freed in the **finally** section of a **try. .finally** block to ensure their resources are freed.

Insert the following code into NMUUProcessor1's OnBeginDecode event:

```
procedure TForm1.NMUUProcessor1BeginDecode(Sender: TObject);  
begin  
    Memo1.Lines.Add('Decoding. . ');  
end;
```

When a decoding operation begins, the **OnBeginDecode** event is called. In this instance, Memo1 is updated to indicate that the **InputStream** is being decoded.

Insert the following code into NMUUProcessor1's OnEndDecode event:

```
procedure TForm1.NMUUProcessor1EndDecode(Sender: TObject);  
begin  
    Memo1.Lines.Add('Decode finished');  
end;
```

When a decoding operation completes, the **OnEndDecode** event is called. In this instance, Memo1 is updated to indicate that the **InputStream** property has been decoded and the results are stored in the **OutputStream** property.

Insert the following code into NMUUProcessor1's OnBeginEncode event:

```
procedure TForm1.NMUUProcessor1BeginEncode(Sender: TObject);  
begin  
    Memo1.Lines.Add('Encoding. . .');  
end;
```

When an encoding operation begins, the **OnBeginEncode** event is called. In this instance, Memo1 is updated to indicate that the **InputStream** property is being encoded.

Insert the following code into NMUUProcessor1's OnEndEncode event:

```
procedure TForm1.NMUUProcessor1EndEncode(Sender: TObject);  
begin  
    Memo1.Lines.Add('Encode finished');  
end;
```

When an encoding operation completes, the **OnEndEncode** event is called. In this case, Memo1 is updated to indicate that the **InputStream** property has completed being encoded and the results are stored in the **OutputStream** property.

Method property

[See Also](#) — [Example](#)

Applies to

[TNMJUUProcessor](#) component

Declaration

property Method: [UUMethods](#);

Description

The Method property determines the method in which InputStream is encoded or decoded. The possible values are uuMime for MIME encoding/decoding, and uuCode for UUEncoding/UUDecoding.

Default: uuMime

Scope: Published

Accessibility: DesignTime, RunTime

Range:

uuMime - MIME/Base 64 encoding/decoding

uuCode - UUEncoding/Decoding

See Also

[Decode](#) method

[Encode](#) method

OutputStream property

[See Also](#) — [Example](#)

Applies to

[TNMUUProcessor](#) component

Declaration

```
property OutputStream: TFileStream;
```

Description

The OutputStream property specifies the stream that will hold the encoded data if the InputStream is processed using the Encode method, or it will contain the decoded data if the Decode method is called.

Scope: Published

Accessibility: RunTime

Note: This property must be set before the **Encode** or **Decode** methods are called.

See Also

[Decode](#) method

[Encode](#) method

[InputStream](#) property

Decode method

[See Also](#) — [Example](#)

Applies to

[TNMUUProcessor](#) component

Declaration

```
procedure Decode;
```

Description

The Decode method decodes the stream data specified by the InputStream property using the method determined by the Method property, and saves the data into the stream specified by the OutputStream property.

See Also

[Encode](#) method

[InputStream](#) property

[OnBeginDecode](#) event

[OnEndDecode](#) event

[OutputStream](#) property

Encode method

[See Also](#) — [Example](#)

Applies to

[TNMUUProcessor](#) component

Declaration

```
procedure Encode;
```

Description

The Encode method encodes the data in the stream specified by the InputStream property using the method determined by the Method property, and saves it into the stream specified by the OutputStream property.

See Also

[Decode](#) method

[InputStream](#) property

[OnBeginEncode](#) event

[OnEndEncode](#) event

[OutputStream](#) property

OnBeginEncode event

[See Also](#) — [Example](#)

Applies to

[TNMUUProcessor](#) component

Declaration

```
procedure OnBeginEncode: TNotifyEvent;
```

Description

The OnBeginEncode event is called when a stream begins encoding. The **Encode** method initiates this event

See Also

[Encode](#) method

[OnEndEncode](#) event

OnEndEncode event

[See Also](#) — [Example](#)

Applies to

[TNMUUProcessor](#) component

Declaration

```
procedure OnEndEncode: TNotifyEvent;
```

Description

The OnEndEncode event is called when a stream ends encoding. This event is called at the conclusion of the **Encode** method.

See Also

[Encode](#) method

[OnBeginEncode](#) event

OnBeginDecode event

[See Also](#) — [Example](#)

Applies to

[TNMUUProcessor](#) component

Declaration

```
procedure OnBeginDecode: TNotifyEvent;
```

Description

The OnBeginDecode event is called when a stream begins decoding. This event is initiated by the **Decode** method.

See Also

[Decode](#) method

[OnEndDecode](#) event

OnEndDecode event

[See Also](#) — [Example](#)

Applies to

[TNMUUProcessor](#) component

Declaration

```
procedure OnEndDecode: TNotifyEvent;
```

Description

The OnEndDecode event is called when a stream finishes decoding. This event is called at the conclusion of the **Decode** method.

See Also

[Decode](#) method

[OnBeginDecode](#) event

UUMethods type

Declaration

type

```
UUMethods = (uuMime, uuCode);
```

Description

The UUMethods type defines the types of encoding and decoding available to the TNMUUProcessor component.

uuMime uses the MIME specification for encoding/decoding files

uuCode uses UUEncode to encode files and UUDecode to decode files

Heirarchy

TObject

|

TPersistent

|

TComponent

Legend

- ▶ Run-time only
- ▶ Read-Only
- Published
- Protected
- 🔑 Key item

