

## NMFtp unit

The TNMFTP unit contains the TNMFTP component, and it's supporting types and objects.

### Components

[TNMFTP](#)

### Objects

[TFTPDirectoryList](#)

[TFTPUnixList](#)

[TFTPNETWAREList](#)

[TFTPDOSList](#)

[TFTPVMSList](#)

[TFTPMVSList](#)

[TFTPVMList](#)

[TFTPMACOSList](#)

[TFTPAS400List](#)

[TFTPOTHERList](#)

### Types

[TCmdType](#)

[TFailureEvent](#)

[TNMListItem](#)

[TSuccessEvent](#)

[TUnsupportedEvent](#)

# TFTPDirectoryList object

[Properties](#)

[Methods](#)

**Unit**

[NMFtp](#)

## Description

The **TFTPDirectoryList** object is the base class for all of the other FTP Directory List parsing objects. If you encounter an FTP host that does not comply with any of the predefined list objects currently available, you can use this class to derive your own list parser.

Each property of this object is a TStringList. The indexes of each property correspond with the same index in each of the other properties. So **name**[1] and **Attribute**[1] contain the name and attributes for the second (TStringLists are 0-based) item in the listing.

## TFTPDirectoryList Properties

[TFTPDirectoryList](#)

[Legend](#)

- ▶ [Attribute](#)
- ▶ [ModifDate](#)
- ▶ [name](#)
- ▶ [Size](#)

## TFTPDirectoryList Methods

[TFTPDirectoryList](#)

[Legend](#)

[Clear](#)



[ParseLine](#)

## Attribute property

### Applies to

[TFTPDirectoryList](#) object

### Declaration

```
property Attribute: TStringlist;
```

### Description

The **Attribute** property specifies the attributes of the list items.

## ModifDate property

### Applies to

[TFTPDirectoryList](#) object

### Declaration

```
property ModifDate: TStringlist;
```

### Description

The **ModifDate** property specifies the dates of the last time the files were modified.

## name property

### Applies to

[TFTPDirectoryList](#) object

### Declaration

```
property name: TStringlist;
```

### Description

The **name** property specifies the names of the files listed.

## Size property

### Applies to

[TFTPDirectoryList](#) object

### Declaration

```
property Size: TStringlist;
```

### Description

The **Size** property specifies the sizes, in bytes, of the files in the listing.

## Clear method

### Applies to

[TFTPDirectoryList](#) object

### Declaration

```
procedure Clear;
```

### Description

The **Clear** method clears the properties of the directory listing object.

### Notes:

After a call to the clear method, each of the TStringLists contain no data.

## ParseLine method

### Applies to

[TFTPDirectoryList](#) object

### Declaration

```
procedure ParseLine(Line: string); virtual;
```

### Description

The **ParseLine** method parses a line from a directory listing, and separates the file name, size, modified date, and attributes into their respective properties in the object.

## TFTPUnixList component

### Unit

[NMFtp](#)

### Description

The **TFTPUnixList** component provides directory list parsing for FTP hosts that are being run from a Unix platform.

# TFTPNETWAREList component

## Unit

[NMFtp](#)

## Description

The **TFTPNETWAREList** component provides directory list parsing for FTP hosts that are being run from a Novell Netware platform.

# TFTPDOSList component

## Unit

[NMFtp](#)

## Description

The **TFTPDOSList** component provides directory list parsing for FTP hosts that are being run from a DOS or Windows platform.

# TFTPVMSList component

## Unit

[NMFtp](#)

## Description

The **TFTPVMSList** component provides directory list parsing for FTP hosts that are being run from a VMS platform.

# TFTPMVSList component

## Unit

[NMFtp](#)

## Description

The **TFTPMVSList** component provides directory list parsing for FTP hosts that are being run from an MVS platform.

## TFTPVMList component

### Unit

[NMFtp](#)

### Description

The **TFTPVMList** component provides directory list parsing for FTP hosts that are being run from a VM platform.

# TFTPACOSList component

## Unit

[NMFtp](#)

## Description

The **TFTPACOSList** component provides directory list parsing for FTP hosts that are being run from a Macintosh platform.

## TFTPAS400List component

### Unit

[NMFtp](#)

### Description

The **TFTPAS400List** component provides directory list parsing for FTP hosts that are being run from an AS/400 platform.

# TFTPOTHERList component

## Unit

[NMFtp](#)

## Description

The **TFTPOTHERList** component provides directory list parsing for FTP hosts that are being run on an unknown FTP host. This provides default directory list parsing that may or may not perform properly.



## TNMFTP component

[Heirarchy](#)

[Properties](#)

[Methods](#)

[Events](#)

[Tasks](#)

### Unit

[NMftp](#)

### Description

The purpose of the TNMFTP component is to transfer files to and from an internet/intranet FTP server via the FTP protocol. The use of this component requires a 32-bit TCP/IP stack, WSOCK32.DLL, which can be obtained from various vendors, including Microsoft, and is included with Windows 95, 98, and Windows NT.

## TNMFTP Properties

[TNMFTP](#)

[Legend](#)

### In TNMFTP

- ▶ [CurrentDir](#)
- ▶ [FTPDiretoryList](#)
- ▶ [OnListItem](#)
- ▶ [ParseList](#)
- 🔑 [Password](#)
- 🔑 [UserID](#)
- ▶ [Vendor](#)

### Derived from TPowersock

- [About](#)
- ▶ [BeenCanceled](#)
  - ▶
- ▶ [BeenTimedOut](#)
  - ▶
- ▶ [BytesRecvd](#)
  - ▶
- ▶ [BytesSent](#)
  - ▶
- ▶ [BytesTotal](#)
- ▶
- ▶
- ▶ [Connected](#)
  - ▶
- ▶ [Handle](#)
- ▶
- ▶ [Host](#)
  - ▶ [LastErrorNo](#)
  - ▶
- ▶ [LocalIP](#)
- ▶
- ▶ [Port](#)
  - [Proxy](#)
  - [ProxyPort](#)
  - ▶
- ▶ [RemoteIP](#)
- ▶
- ▶ [ReplyNumber](#)
  - ▶ [ReportLevel](#)
- ▶
- ▶
- ▶ [Status](#)
  - ▶ [TimeOut](#)
  - ▶
- ▶ [TransactionReply](#)
  - ▶
- ▶ [WSAInfo](#)

### Derived from TComponent

- ▶ [ComObject](#)
- ▶ [ComponentCount](#)
- ▶ [ComponentIndex](#)

- ▶ Components
- ▶ ComponentState
- ▶ ComponentStyle
- ▶ DesignInfo
- ▶ Owner
- ▶ Tag
- ▶ VCLComObject

## TNMFTP Methods

[TNMFTP](#)

[Legend](#)

### In TNMFTP

[Allocate](#)  
[ChangeDir](#)  
[Delete](#)  
[DoCommand](#)  
[Download](#)  
[DownloadRestore](#)  
[List](#)  
[MakeDirectory](#)  
[Mode](#)  
[Nlist](#)  
[Reinitialize](#)  
[RemoveDir](#)  
[Rename](#)  
[Upload](#)  
[UploadAppend](#)  
[UploadRestore](#)  
[UploadUnique](#)

### Derived from TPowersock

[Abort](#)  
▶ [Accept](#)  
    [Cancel](#)  
▶ [CaptureFile](#)  
▶ [CaptureStream](#)  
▶ [CaptureString](#)  
    [CertifyConnect](#)  
▶ [Connect](#)  
    [Create](#)  
    [Destroy](#)  
▶ [Disconnect](#)  
    [FilterHeader](#)  
    [GetLocalAddress](#)  
    [GetPortstring](#)  
▶ [Listen](#)  
▶ [read](#)  
▶ [ReadLn](#)  
    [RequestCloseSocket](#)  
    [SendBuffer](#)  
▶ [SendFile](#)  
▶ [SendStream](#)  
▶ [Transaction](#)  
▶ [write](#)  
▶ [writeln](#)

### Derived from TComponent

[DestroyComponents](#)  
[Destroying](#)  
[FindComponent](#)  
[FreeNotification](#)  
[FreeOnRelease](#)  
[GetParentComponent](#)

[HasParent](#)  
[InsertComponent](#)  
[RemoveComponent](#)  
[SafeCallException](#)

**Derived from TPersistent**

[Assign](#)  
[GetNamePath](#)

**Derived from TObject**

[ClassInfo](#)  
[ClassName](#)  
[ClassNamels](#)  
[ClassParent](#)  
[ClassType](#)  
[CleanupInstance](#)  
[DefaultHandler](#)  
[Dispatch](#)  
[FieldAddress](#)  
[Free](#)  
[FreeInstance](#)  
[GetInterface](#)  
[GetInterfaceEntry](#)  
[GetInterfaceTable](#)  
[InheritsFrom](#)  
[InitInstance](#)  
[InstanceSize](#)  
[MethodAddress](#)  
[MethodName](#)  
[NewInstance](#)

## TNMFTP Events

TNMFTP

Legend

### In TNMFTP

OnAuthenticationFailed  
OnAuthenticationNeeded  
OnFailure  
OnSuccess  
OnTransactionStart  
OnTransactionStop  
OnUnsupportedFunction

### Derived from TPowersock

- OnAccept
- ▶ OnConnect
  - OnConnectionFailed
- OnConnectionRequired
- ▶ OnDisconnect
- OnError
- OnHostResolved
- OnInvalidHost
- OnPacketRecv
- OnPacketSent
- OnRead
- OnStatus

## About the TNMFTP component

[TNMFTP reference](#)

### Purpose

The purpose of the TNMFTP component is to transfer files to and from an internet/intranet FTP server via the FTP protocol.

**RFC:** RFC 959

### Tasks

Before you can use the TNMFTP component for transferring files to and from a remote host, you must connect. This is accomplished by setting the **Host** and **Port** properties to those of a valid FTP server. Then, set the **UserID** and **Password** properties to a valid account on that server. Many servers will accept Anonymous as a user ID and your E-Mail address as a password for FTPing. After these properties are set, call the **Connect** method to connect to the server.

### Getting a directory list on a remote host:

Once you are connected to the server, you can get a listing of the files and directories there by calling the **List** method, and writing an event handler for the **OnListItem** event.

### Changing directory on a remote host:

You can change the directory you are currently in (called the 'working' directory) by calling the **ChangeDir** method, specifying a valid directory name to change to.

### Uploading Files to a remote host:

To upload files to the directory you are currently in on the remote host, you call the **Upload** method. The Upload method takes the name of a file on your local computer, and a filename to store it as on the remote host as parameters. Please note, that you cannot upload to an FTP host unless you have sufficient rights to do so. This is most common allowed in a directory called 'incoming'. Also, if a file already exists on the server with the same name as the file name you specified in the Upload method, that file will be overwritten. See the **UploadUnique** method for a solution.

### Downloading files from a remote host:

To download files from the remote host, you should do a List first, so that you know the file you are looking for will be available for download. Then, call the **Download** method, passing the name of the file you wish to download, and the path and name to save it to on your local drive as parameters. Please note, you will not be able to download files from everywhere on an FTP host. Most generally, you will be allowed to download many files from a directory called 'pub' (for public). Also, if a file with the same name exists on your local drive, it will be overwritten when you download the file from the remote host.

### Create Directories on remote host:

To create a directory on the remote host, you must first have sufficient rights to do so. Most generally, you would be allowed to create directories in an 'incoming' directory on an FTP host. To create the directory, call the **MakeDirectory** method, and pass the name of the directory you wish to create as a parameter.

### Remove directories on a remote host:

To remove a directory on the remote host, you must first have sufficient rights to do so. Once you do, you call the **RemoveDir** method, passing the name of the directory you wish to remove as a parameter.

# CurrentDir property

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
property CurrentDir: string;
```

## Description

The **CurrentDir** property contains the name of the currently occupied directory on the remote system.

**Scope:** Public

**Accessibility:** RunTime, ReadOnly

## Notes:

This property will be different after a successful call to the **ChangeDir** method.

## See also

[ChangeDir](#) method

[OnFailure](#) event

[OnSuccess](#) event

## Example

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

Place 3 TEdits, 10 TButtons, a TMemo, a TStringGrid, a TStatusBar, and a TNMFTP on the form.

### Component Descriptions:

Edit1: FTP host  
Edit2: FTP User ID  
Edit3: FTP Password (set the PasswordChar property to \*)  
Button1: Connect/Disconnect  
Button2: List  
Button3: Change Directory  
Button4: Make Directory  
Button5: Remove Directory  
Button6: Delete File  
Button7: Rename File  
Button8: Reinitialize  
Button9: Authenticate  
Button10: Get Current Directory  
Memo1: Status Display  
StringGrid1: Directory Listing Display  
StatusBar1: Transfer progress \*

\* Set the **SimplePanel** property of StatusBar1 to TRUE in the Object Inspector

\* Set the **ParseList** property of NMFTP1 to TRUE in the Object Inspector

Insert the following code into Button1's OnClick event:

```
procedure TForm1.Button1Click(Sender: TObject);  
begin  
  if NMFTP1.Connected then  
    NMFTP1.Disconnect  
  else  
    begin  
      NMFTP1.Vendor := NMOS_AUTO;  
      NMFTP1.Host := Edit1.Text;  
      NMFTP1.UserID := Edit2.Text;  
      NMFTP1.Password := Edit3.Text;  
      NMFTP1.Connect;  
    end;  
end;
```

When Button1 is clicked, if there is already a connection present, the **Disconnect** method is used to close the connection. If there is no connection present, the **Vendor** property is set to NMOS\_AUTO, which will auto-detect the FTP host vendor, if possible. The **Host** property is set to the host name or IP address entered in Edit1. The **UserID** property is set to the username that has been entered in Edit2. The **Password** property is set to the value of Edit3, and a connection is established with the **Connect** method.

Insert the following code into Button2's OnClick event:

```
procedure TForm1.Button2Click(Sender: TObject);  
begin
```

```
NMFTP1.List;  
end;
```

When Button2 is clicked, the **List** method is executed to get a listing of files and directories in the current directory. Since the **ParseList** property was previously set to TRUE, the directory listing will be parsed and its fields placed in the **FTPDirectoryList** property.

Insert the following code into Button3's OnClick event:

```
procedure TForm1.Button3Click(Sender: TObject);  
var  
    TheDir: String;  
begin  
    if InputQuery('Change Directory', 'Which directory?', TheDir) then  
        NMFTP1.ChangeDir(TheDir);  
end;
```

When Button3 is clicked, the **InputQuery** function is used to obtain the name of a directory. If the Ok button is clicked, the **ChangeDir** method attempts to change the current directory to the directory specified.

Insert the following code into Button4's OnClick event:

```
procedure TForm1.Button4Click(Sender: TObject);  
var  
    TheDir: String;  
begin  
    if InputQuery('Create Directory', 'Directory name?', TheDir) then  
        NMFTP1.MakeDirectory(TheDir);  
end;
```

When Button4 is clicked, the **InputQuery** function is used to obtain the name of a directory. If the Ok button is clicked, the **MakeDirectory** method attempts to create the directory specified.

Insert the following code into Button5's OnClick event:

```
procedure TForm1.Button5Click(Sender: TObject);  
var  
    TheDir: String;  
begin  
    if InputQuery('Remove Directory', 'Directory name?', TheDir) then  
        NMFTP1.RemoveDir(TheDir);  
end;
```

When Button5 is clicked, the **InputQuery** function is used to obtain the name of a directory. If the Ok button is clicked, the **RemoveDir** method attempts to remove the specified directory from the remote host.

Insert the following code into Button6's OnClick event:

```
procedure TForm1.Button6Click(Sender: TObject);  
var
```

```

TheFile: String;
begin
  if InputQuery('Delete File', 'File name?', TheFile) then
    NMFTP1.Delete(TheFile);
end;

```

When Button6 is clicked, the **InputQuery** function is used to obtain the name of a file. If the Ok button is clicked, the **Delete** method attempts to delete the file specified.

Insert the following code into Button7's OnClick event:

```

procedure TForm1.Button7Click(Sender: TObject);
var
  OldFile,
  NewFile: String;
begin
  if InputQuery('Rename file', 'File to rename?', OldFile) then
    if InputQuery('Rename file', 'New file name?', NewFile) then
      NMFTP1.Rename(OldFile, NewFile);
end;

```

When Button7 is clicked, the **InputQuery** function is called twice. The first time, the user is prompted for the file to rename. If the user enters a filename and clicks the Ok button, the second InputQuery asks for the new name for the file. If the OK button is also clicked here, the **Rename** method attempts to rename the file specified.

Insert the following code into Button8's OnClick event:

```

procedure TForm1.Button8Click(Sender: TObject);
begin
  ShowMessage('After reinitilizing, you must click the authenticate button');
  NMFTP1.Reinitialize;
end;

```

When Button8 is clicked, the **ShowMessage** procedure is used to display a warning that once the **Reinitialize** method is called, authentication is required. When the Ok button is clicked on the message, the Reinitialize method attempts to reinitialize the connection with the server back to the authentication state.

Insert the following code into Button9's OnClick event:

```

procedure TForm1.Button9Click(Sender: TObject);
var
  AnID,
  APass: String;
begin
  if InputQuery('Authentication needed', 'Enter User ID', AnID) then
    if InputQuery('Authentication needed', 'Enter Password', APass) then
      begin
        NMFTP1.DoCommand('USER '+AnID);
        NMFTP1.DoCommand('PASS '+APass);
      end;
end;

```

When Button9 is clicked the **InputQuery** function is used to obtain the user's User ID. If the Ok button is clicked, InputQuery is called again to obtain the user's password. If the Ok button is clicked a second time, the **DoCommand** method is used to send the USER and PASS commands to the remote host, effectively logging in to the FTP host.

\*\*\*Please note that this is the **only** way to continue an FTP session once the **Reinitialize** method has been called.

Insert the following code into Button10's OnClick event:

```
procedure TForm1.Button10Click(Sender: TObject);  
begin  
    ShowMessage(NMFTP1.CurrentDir);  
end;
```

When Button10 is clicked, the ShowMessage procedure is used to display the value of the **CurrentDir** property, which contains the current working directory on the remote host.

Insert the following code into NMFTP1's OnAuthenticationFailed event:

```
procedure TForm1.NMFTP1AuthenticationFailed(var Handled: Boolean);  
var  
    ThePass,  
    TheID: String;  
begin  
    if MessageDlg('Authentication Failed. Retry?', mtConfirmation, [mbYes, mbNo], 0) = mrYes then  
        begin  
            ThePass := NMFTP1.Password;  
            TheID := NMFTP1.UserID;  
            InputQuery('Reauthenticate', 'Enter User ID', TheID);  
            InputQuery('Reauthenticate', 'Enter Password', ThePass);  
            NMFTP1.Password := ThePass;  
            NMFTP1.UserID := TheID;  
            Handled := TRUE;  
        end;  
end;
```

When authentication fails on the remote host (Password and UserID don't match, aren't correct), the **OnAuthenticationFailed** event is called. In this instance, a dialog box is displayed using the **MessageDlg** function. If the user clicks the Yes button to attempt authentication again, the **InputQuery** function is used to obtain a new UserID and Password. The **Password** and **UserID** properties are set to the new values accordingly, and the **Handled** parameter of the event is set to TRUE to allow the component to reauthenticate.

Insert the following code into NMFTP1's OnAuthenticationNeeded event:

```
procedure TForm1.NMFTP1AuthenticationNeeded(var Handled: Boolean);  
var  
    APass,  
    AnID: String;  
begin  
    if NMFTP1.Password = "" then  
        begin
```

```

    if InputQuery('Password needed', 'Enter password: ', APass) then
        begin
            NMFTP1.Password := APass;
            Handled := TRUE;
        end
    else
        Handled := FALSE;
    end;
if NMFTP1.UserID = "" then
    begin
        if InputQuery('User ID needed', 'Enter User ID: ', AnID) then
            begin
                NMFTP1.UserID := AnID;
                Handled := TRUE;
            end
        else
            Handled := FALSE;
        end;
    end;
end;

```

If either the **UserID** or **Password** property are blank, the **OnAuthenticationNeeded** event is called. In this instance, if the Password property is blank, the **InputQuery** function is used to get a password. If the Ok button is clicked, the Password property is set to the new password, and the **Handled** parameter is set to FALSE. If the **UserID** property is blank, the InputQuery function is used to get a UserID. If the Ok button is clicked, the UserID property is set to the new value, and the **Handled** parameter is set to TRUE. If a password and/or user ID are not supplied, Handled is set to FALSE, which will cause an exception to be raised, and the connection to be cancelled.

Insert the following code into NMFTP1's OnConnect event:

```

procedure TForm1.NMFTP1Connect(Sender: TObject);
begin
    Memo1.Lines.Add('Connected');
    Button1.Caption := 'Disconnect';
end;

```

The **OnConnect** event is called once a connection has been established with the remote FTP host. In this case, Memo1 is updated to display the connection notice, and the caption of Button1 is set to Disconnect, since Button1 is used for connecting and disconnecting.

Insert the following code into NMFTP1's OnDisconnect event:

```

procedure TForm1.NMFTP1Disconnect(Sender: TObject);
begin
    Memo1.Lines.Add('Disconnected');
    Button1.Caption := 'Connect';
end;

```

When the **OnDisconnect** event is called when the connection to the remote FTP host has been terminated, the disconnection notice is added to Memo1 (status display memo), and Button1's caption is set to Connect, since Button1 is used both for connecting and disconnecting.

Insert the following code into NMFTP1's OnFailure event:

```

procedure TForm1.NMFTP1Failure(var Handled: Boolean; Trans_Type: TCmdType);
begin
  case Trans_Type of
    cmdChangeDir: Memo1.Lines.Add('ChangeDir failed');
    cmdMakeDir: Memo1.Lines.Add('MakeDir failed');
    cmdDelete: Memo1.Lines.Add('Delete failed');
    cmdRemoveDir: Memo1.Lines.Add('RemoveDir failed');
    cmdList: Memo1.Lines.Add('List failed');
    cmdRename: Memo1.Lines.Add('Rename failed');
    cmdUpRestore: Memo1.Lines.Add('UploadRestore failed');
    cmdDownRestore: Memo1.Lines.Add('DownloadRestore failed');
    cmdDownload: Memo1.Lines.Add('Download failed');
    cmdUpload: Memo1.Lines.Add('Upload failed');
    cmdAppend: Memo1.Lines.Add('UploadAppend failed');
    cmdReInit: Memo1.Lines.Add('Reinitialize failed');
    cmdAllocate: Memo1.Lines.Add('Allocate failed');
    cmdNList: Memo1.Lines.Add('NList failed');
    cmdDoCommand: Memo1.Lines.Add('DoCommand failed');
    cmdCurrentDir: Memo1.Lines.Add('CurrentDir failed');
  end;
end;

```

The **OnFailure** event is called when a command has failed to execute properly. In this instance, the **Trans\_Type** parameter is checked, and Memo1 is updated to display which command failed to execute. The **Handled** parameter is left to FALSE (the default), so an exception will be raised due to the failure.

Insert the following code into NMFTP1's OnPacketRecvd event:

```

procedure TForm1.NMFTP1PacketRecvd(Sender: TObject);
begin
  StatusBar1.SimpleText := 'Received '+IntToStr(NMFTP1.BytesRecvd)+' bytes of
'+IntToStr(NMFTP1.BytesTotal)+' total';
end;

```

When data is received during a file transfer, the **OnPacketRecvd** event is called. This example updates the Statusbar StatusBar1 to display how many bytes of the total transfer have been received.

Insert the following code into NMFTP1's OnPacketSent event:

```

procedure TForm1.NMFTP1PacketSent(Sender: TObject);
begin
  StatusBar1.SimpleText := 'Sent '+IntToStr(NMFTP1.BytesSent)+' bytes of
'+IntToStr(NMFTP1.BytesTotal)+' total';
end;

```

When data is sent to the remote host during a file transfer, the **OnPacketSent** event is called. This example updates the Statusbar StatusBar1 to display how many bytes of the total transfer have been sent.

Insert the following code into NMFTP1's OnTransactionStart event:

```

procedure TForm1.NMFTP1TransactionStart(Sender: TObject);

```

**begin**

```
    Memo1.Lines.Add('Data transfer start');  
end;
```

When a data transaction takes place in the TNMFTP component, the **OnTransactionStart** event is called to signify the data transaction's beginning. This example updates Memo1 to display that the data transfer has started.

Insert the following code into NMFTP1's OnTransactionStop event:

```
procedure TForm1.NMFTP1TransactionStop(Sender: TObject);
```

**begin**

```
    Memo1.Lines.Add('Data transfer end');  
end;
```

When a data transaction completes in the TNMFTP component, the **OnTransactionStop** event is called to signify the data transaction's end. This example updates Memo1 to display that the data transfer has finished.

Insert the following code into NMFTP1's OnSuccess event:

```
procedure TForm1.NMFTP1Success(Trans_Type: TCmdType);
```

**var**

```
    I: Integer;
```

**begin**

```
    case Trans_Type of
```

```
        cmdList:
```

```
            begin
```

```
                for I := 0 to (StringGrid1.ColCount - 1) do
```

```
                    StringGrid1.Cols[I].Clear;
```

```
                StringGrid1.RowCount := NMFTP1.FTPDirectoryList.name.Count;
```

```
                StringGrid1.ColCount := 4;
```

```
                StringGrid1.Cells[0, 0] := 'Filename';
```

```
                StringGrid1.Cells[1, 0] := 'File Size';
```

```
                StringGrid1.Cells[2, 0] := 'Modified Date';
```

```
                StringGrid1.Cells[3, 0] := 'Attributes';
```

```
                for I := 0 to (NMFTP1.FTPDirectoryList.name.Count - 1) do
```

```
                    with NMFTP1.FTPDirectoryList do
```

```
                        begin
```

```
                            StringGrid1.Cells[0, I+1] := name[I];
```

```
                            StringGrid1.Cells[1, I+1] := Size[I];
```

```
                            StringGrid1.Cells[2, I+1] := ModifDate[I];
```

```
                            StringGrid1.Cells[3, I+1] := Attribute[I];
```

```
                        end;
```

```
            end;
```

```
        cmdChangeDir:
```

```
            begin
```

```
                Memo1.Lines.Add('ChangeDir successful');
```

```
                NMFTP1.List;
```

```
            end;
```

```
        cmdMakeDir: Memo1.Lines.Add('MakeDir successful');
```

```
        cmdRemoveDir: Memo1.Lines.Add('RemoveDir successful');
```

```
        cmdDelete: Memo1.Lines.Add('Delete successful');
```

```
        cmdRename: Memo1.Lines.Add('Rename successful');
```

```

    cmdReInit: Memo1.Lines.Add('Reinitialize successful');
    cmdCurrentDir: Memo1.Lines.Add('CurrentDir successful');
end;
end;

```

When an FTP command has completed successfully, the **OnSuccess** event is called. In this case, the **Trans\_Type** parameter is tested, and Memo1 is updated to display the success of the command. If the command was a call to the **List** method, StringGrid1 is used to display the resulting directory list upon successful completion by using the **FTPDirectoryList** property to separate the different fields of the directory listing. If the command was a call to the **ChangeDir** method, the new directory listing is automatically initiated by the **List** method.

Insert the following code into NMFTP1's OnUnSupportedFunction event:

```

procedure TForm1.NMFTP1UnSupportedFunction(Trans_Type: TCmdType);
begin
    case Trans_Type of
        cmdChangeDir: Memo1.Lines.Add('ChangeDir not supported by this server');
        cmdMakeDir: Memo1.Lines.Add('MakeDir not supported by this server');
        cmdDelete: Memo1.Lines.Add('Delete not supported by this server');
        cmdRemoveDir: Memo1.Lines.Add('RemoveDir not supported by this server');
        cmdList: Memo1.Lines.Add('List not supported by this server');
        cmdRename: Memo1.Lines.Add('Rename not supported by this server');
        cmdUpRestore: Memo1.Lines.Add('UploadRestore not supported by this server');
        cmdDownRestore: Memo1.Lines.Add('DownloadRestore not supported by this server');
        cmdDownload: Memo1.Lines.Add('Download not supported by this server');
        cmdUpload: Memo1.Lines.Add('Upload not supported by this server');
        cmdAppend: Memo1.Lines.Add('UploadAppend not supported by this server');
        cmdReInit: Memo1.Lines.Add('Reinitialize not supported by this server');
        cmdAllocate: Memo1.Lines.Add('Allocate not supported by this server');
        cmdNList: Memo1.Lines.Add('NList not supported by this server');
        cmdDoCommand: Memo1.Lines.Add('DoCommand not supported by this server');
        cmdCurrentDir: Memo1.Lines.Add('CurrentDir not supported by this server');
    end;
end;

```

When an FTP command is not supported by the remote FTP host, the **OnUnSupportedFunction** event is called. In this case, the **Trans\_Type** parameter is tested, and Memo1 is updated to display the command that was unsupported.

## FTPDirectoryList property

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
property FTPDirectoryList: TFTPDirectoryList;
```

### Description

The **FTPDirectoryList** property is used only when the **ParseList** property is set to TRUE. FTPDirectoryList contains the directory listing obtained from the **List** method, with each of the elements of the listing separated into properties. See the **TFTPDirectoryList** object reference for details on the properties of this object.

## See also

[List](#) method  
[OnListItem](#) event

# OnListItem event

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

**property** OnListItem: [TNMListItem](#);

## Description

The **OnListItem** event is called when a directory listing is taking place. This event is called once for each item that gets listed.

## Event Parameters:

The **Listing** parameter is the item being currently listed.

## Notes:

This event gets called by the **List** and **NList** methods.

## See also

[FTPDirectoryList](#) property

[List](#) method

[NList](#) method

[ParseList](#) property

## Example

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

Place 3 TEdits, 9 TButtons, 2 TMemos, a TStatusBar, a TRadioGroup, and a TNMFTP on the form.

### Component Descriptions:

Edit1: Host  
Edit2: User ID  
Edit3: Password  
Button1: Connect/Disconnect  
Button2: NList  
Button3: ChangeDir  
Button4: Download  
Button5: Upload  
Button6: UploadAppend  
Button7: UploadUnique  
Button8: Upload Restore  
Button9: Abort  
Memo1: Status Window  
Memo2: Directory List display  
RadioGroup1: Transfer Mode \*  
StatusBar1: File Transfer progress

\* Change RadioGroup1.Items to MODE\_ASCII, MODE\_IMAGE, and MODE\_BYTE, in that order.

Insert the following code into Button1's OnClick event:

```
procedure TForm1.Button1Click(Sender: TObject);  
begin  
  if NMFTP1.Connected then  
    NMFTP1.Disconnect  
  else  
    begin  
      NMFTP1.Host := Edit1.Text;  
      NMFTP1.UserID := Edit2.Text;  
      NMFTP1.Password := Edit3.Text;  
      NMFTP1.Connect;  
    end;  
end;
```

When Button1 is clicked, if the **Connected** property is TRUE, a connection is present, and the **Disconnect** method is called to disconnect from the remote FTP host. If Connected is FALSE, there is no connection present, so the **Host** property is set to the value in Edit1 to specify the remote host to connect to. The **UserID** property is set to the value in Edit2, and the **Password** property is set to the value in Edit3. The UserID and Password are used to log in to the remote host when connected.

Insert the following code into Button2's OnClick event:

```
procedure TForm1.Button2Click(Sender: TObject);  
begin  
  Memo2.Clear;  
  NMFTP1.NList;  
end;
```

**end;**

When Button2 is clicked, any text being displayed in Memo2 is cleared. The **NList** method is called, retrieving the names of all files and directories in the current working directory. The results of this method call can be seen in the **OnListItem** event.

Insert the following code into Button3's OnClick event:

```
procedure TForm1.Button3Click(Sender: TObject);  
var  
    TheDir: String;  
begin  
    if InputQuery('Change directory', 'Directory name?', TheDir) then  
        NMFTP1.ChangeDir(TheDir);  
end;
```

When Button3 is clicked, the **InputQuery** function is used to obtain the name of the directory desired. If the Ok button is clicked, the **ChangeDir** method is used to change the current working directory to the directory specified.

Insert the following code into Button4's OnClick event:

```
procedure TForm1.Button4Click(Sender: TObject);  
var  
    RemoteFile,  
    LocalFile: String;  
    O: TOpenDialog;  
begin  
    if InputQuery('Download a file', 'File to download: ', RemoteFile) then  
        begin  
            O := TOpenDialog.Create(Self);  
            try  
                O.Title := 'Save file as';  
                if O.Execute then  
                    begin  
                        LocalFile := O.FileName;  
                        case RadioGroup1.ItemIndex of  
                            0: NMFTP1.Mode(MODE_ASCII);  
                            1: NMFTP1.Mode(MODE_IMAGE);  
                            2: NMFTP1.Mode(MODE_BYTE);  
                        end;  
                        NMFTP1.Download(RemoteFile, LocalFile);  
                    end;  
                finally  
                    O.Free;  
                end;  
            end;  
        end;
```

When Button4 is clicked, the InputQuery function is used to retrieve the name of a remote file to download to the local computer. If the Ok button is clicked, an OpenDialog is used to retrieve the name to store the file as on the local computer. If the Open button is clicked, the **Mode** method is called, changing the transfer mode depending on the selected item in RadioGroup1. Then the **Download** method is used to download the remote file to the local disk.

Insert the following code into NMFTP1's OnDisconnect event:

```
procedure TForm1.NMFTP1Disconnect(Sender: TObject);  
begin  
    Memo1.Lines.Add('Disconnected');  
    Button1.Caption := 'Connect';  
end;
```

When the local computer disconnects from the remote host, the **OnDisconnect** event is called. In this instance, the status display (Memo1) is updated to display the disconnect status, and the caption of Button1 is changed to Connect (Since Button1 is used for connecting and disconnecting).

Insert the following code into NMFTP1's OnPacketRecvd event:

```
procedure TForm1.NMFTP1PacketRecvd(Sender: TObject);  
begin  
    StatusBar1.SimpleText := IntToStr(NMFTP1.BytesRecvd)+' bytes received out of  
'+IntToStr(NMFTP1.BytesTotal);  
end;
```

When data is received from the remote host during a file transfer, the **OnPacketRecvd** event is called. In this instance, StatusBar1 displays the progress of the transfer by displaying the **BytesRecvd** property, which contains the number of bytes received, and the **BytesTotal** property, which contains the total number of bytes to transfer.

Insert the following code into NMFTP1's OnPacketSent event:

```
procedure TForm1.NMFTP1PacketSent(Sender: TObject);  
begin  
    StatusBar1.SimpleText := IntToStr(NMFTP1.BytesSent)+' bytes sent out of  
'+IntToStr(NMFTP1.BytesTotal);  
end;
```

When data is sent to the remote host during a file transfer, the **OnPacketSent** event is called. In this instance, StatusBar1 displays the progress of the transfer by displaying the **BytesSent** property, which contains the number of bytes sent, and the **BytesTotal** property, which contains the total number of bytes to transfer.

Insert the following code into NMFTP1's OnTransactionStart event:

```
procedure TForm1.NMFTP1TransactionStart(Sender: TObject);  
begin  
    Memo1.Lines.Add('Transaction Start');  
end;
```

When a data transfer begins, the **OnTransactionStart** event is called. In this instance, the Status Memo, Memo1, displays that the transaction started.

Insert the following code into NMFTP1's OnTransactionStop event:

```

procedure TForm1.NMFTP1TransactionStop(Sender: TObject);
begin
    Memo1.Lines.Add('Transaction Stop');
end;

```

When a data transfer completes, the **OnTransactionStop** event is called. In this instance, the Status Memo, Memo1, displays that the transaction has finished.

Insert the following code into Button5's OnClick event:

```

procedure TForm1.Button5Click(Sender: TObject);
var
    LocalFile,
    RemoteFile: String;
    F: File of Byte;
    FSize: Integer;
    O: TOpenDialog;
begin
    O := TOpenDialog.Create(Self);
    try
        O.Title := 'Select file to upload';
        if O.Execute then
            if InputQuery('Choose Remote File Name', 'Filename?', RemoteFile) then
                begin
                    LocalFile := O.FileName;
                    case RadioGroup1.ItemIndex of
                        0: NMFTP1.Mode(MODE_ASCII);
                        1: NMFTP1.Mode(MODE_IMAGE);
                        2: NMFTP1.Mode(MODE_BYTE);
                    end;
                    AssignFile(F, LocalFile);
                    Reset(F);
                    FSize := FileSize(F);
                    CloseFile(F);
                    NMFTP1.Allocate(FSize);
                    NMFTP1.Upload(LocalFile, RemoteFile);
                end;
            finally
                O.Free;
            end;
    end;

```

When Button5 is clicked, an Open Dialog is displayed to select a file on the local computer to upload to the remote host. If the Open button is clicked, the InputQuery function is used to retrieve the name the file will be stored as on the remote host. If the Ok button is clicked, the file is opened so it's size can be determined. The **Allocate** method is called to reserve space on the remote host for the file. This is not normally necessary, but is done here to illustrate the use of the method. The **Upload** method is used to send the file to the remote host.

Insert the following code into Button6's OnClick event:

```

procedure TForm1.Button6Click(Sender: TObject);
var
    LocalFile,

```

```

RemoteFile: String;
O: TOpenDialog;
begin
O := TOpenDialog.Create(Self);
try
O.Title := 'Select file to upload';
if O.Execute then
if InputQuery('Choose Remote File Name', 'Filename?', RemoteFile) then
begin
LocalFile := O.FileName;
case RadioGroup1.ItemIndex of
0: NMFTP1.Mode(MODE_ASCII);
1: NMFTP1.Mode(MODE_IMAGE);
2: NMFTP1.Mode(MODE_BYTE);
end;
NMFTP1.UploadAppend(LocalFile, RemoteFile);
end;
finally
O.Free;
end;
end;

```

When Button6 is clicked, an Open Dialog is displayed to select a file on the local computer to upload to the remote host. If the Open button is clicked, the InputQuery function is used to retrieve the name the file will be stored as on the remote host. If the Ok button is clicked, the **UploadAppend** method is used to send the file to the remote host. If a file with the same name already exists on the remote host, the file being sent is appended to the end of the existing file.

Insert the following code into Button7's OnClick event:

```

procedure TForm1.Button7Click(Sender: TObject);
var
LocalFile: String;
O: TOpenDialog;
begin
O := TOpenDialog.Create(Self);
try
O.Title := 'Upload file';
if O.Execute then
begin
LocalFile := O.FileName;
NMFTP1.UploadUnique(LocalFile);
end;
finally
O.Free;
end;
end;

```

When Button7 is clicked, an Open Dialog is displayed to select the file on the local computer to upload to the remote host. If the Open button is clicked, the **UploadUnique** method is used to store the file on the remote FTP host with a unique filename given by the FTP host.

Insert the following code into NMFTP1's OnFailure event:

```

procedure TForm1.NMFTP1Failure(var Handled: Boolean; Trans_Type: TCmdType);
begin
  case Trans_Type of
    cmdChangeDir: Memo1.Lines.Add('ChangeDir failure');
    cmdMakeDir: Memo1.Lines.Add('MakeDir failure');
    cmdDelete: Memo1.Lines.Add('Delete failure');
    cmdRemoveDir: Memo1.Lines.Add('RemoveDir failure');
    cmdList: Memo1.Lines.Add('List failure');
    cmdRename: Memo1.Lines.Add('Rename failure');
    cmdUpRestore: Memo1.Lines.Add('UploadRestore failure');
    cmdDownRestore: Memo1.Lines.Add('DownloadRestore failure');
    cmdDownload: Memo1.Lines.Add('Download failure');
    cmdUpload: Memo1.Lines.Add('Upload failure');
    cmdAppend: Memo1.Lines.Add('UploadAppend failure');
    cmdReInit: Memo1.Lines.Add('Reinitialize failure');
    cmdAllocate: Memo1.Lines.Add('Allocate failure');
    cmdNList: Memo1.Lines.Add('NList failure');
    cmdDoCommand: Memo1.Lines.Add('DoCommand failure');
    cmdCurrentDir: Memo1.Lines.Add('CurrentDir failure');
  end;
end;

```

When an FTP command fails, the **OnFailure** event is called. In this case, the **Handled** parameter is left the default (FALSE), so an exception will be raised, in addition to a failure notification being added to the status display (Memo1) noting the command that failed.

Insert the following code into NMFTP1's OnSuccess event:

```

procedure TForm1.NMFTP1Success(Trans_Type: TCmdType);
begin
  case Trans_Type of
    cmdChangeDir: Memo1.Lines.Add('ChangeDir success');
    cmdMakeDir: Memo1.Lines.Add('MakeDir success');
    cmdDelete: Memo1.Lines.Add('Delete success');
    cmdRemoveDir: Memo1.Lines.Add('RemoveDir success');
    cmdList: Memo1.Lines.Add('List success');
    cmdRename: Memo1.Lines.Add('Rename success');
    cmdUpRestore: Memo1.Lines.Add('UploadRestore success');
    cmdDownRestore: Memo1.Lines.Add('DownloadRestore success');
    cmdDownload: Memo1.Lines.Add('Download success');
    cmdUpload: Memo1.Lines.Add('Upload success');
    cmdAppend: Memo1.Lines.Add('UploadAppend success');
    cmdReInit: Memo1.Lines.Add('Reinitialize success');
    cmdAllocate: Memo1.Lines.Add('Allocate success');
    cmdNList: Memo1.Lines.Add('NList success');
    cmdDoCommand: Memo1.Lines.Add('DoCommand success');
    cmdCurrentDir: Memo1.Lines.Add('CurrentDir success');
  end;
end;

```

When an FTP command succeeds, the **OnSuccess** event is called. In this instance, the command that succeeded is displayed in the status display (Memo1).

Insert the following code into Button8's OnClick event:

```

procedure TForm1.Button8Click(Sender: TObject);
var
    LocalFile,
    RemoteFile: String;
    FPosition: Integer;
    FPos: String;
    O: TOpenDialog;
begin
    O := TOpenDialog.Create(Self);
    try
        O.Title := 'Select file to upload';
        if O.Execute then
            if InputQuery('Choose Remote File Name', 'Filename?', RemoteFile) then
                if InputQuery('Choose restoration point', 'Byte Count: ', FPos) then
                    begin
                        FPosition := StrToInt(Fpos);
                        LocalFile := O.FileName;
                        case RadioGroup1.ItemIndex of
                            0: NMFTP1.Mode(MODE_ASCII);
                            1: NMFTP1.Mode(MODE_IMAGE);
                            2: NMFTP1.Mode(MODE_BYTE);
                        end;
                        NMFTP1.UploadRestore(LocalFile, RemoteFile, FPosition);
                    end;
            finally
                O.Free;
            end;
    end;

```

When Button8 is clicked, an OpenDialog is displayed to select a file on the local computer to upload to the remote host. If the Open button is clicked, the InputQuery function is used to retrieve the name the file will use on the remote host. The InputQuery function is called once more to obtain the position to restore the upload from. If the Ok button is clicked, the **Mode** method is used to set the mode as determined by RadioGroup1. The **UploadRestore** method continues a previously interrupted upload at the position specified.

Insert the following code into Button9's OnClick event:

```

procedure TForm1.Button9Click(Sender: TObject);
begin
    NMFTP1.Abort;
end;

```

When Button9 is clicked, the **Abort** method is called, aborting the current operation.

## ParseList property

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
property ParseList: boolean;
```

### Description

The **ParseList** property determines whether to parse incoming directory listings into the **FTPDDirectoryList** property or not.

**Scope:** Published

**Accessibility:** Runtime, Design-time

### Note:

If this property is set to FALSE, directory listings will not be parsed out, and will need to be handled in the **OnListItem** event.

## See also

[FTPDirectoryList](#) property

[List](#) method

[OnListItem](#) event

# Password property

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
property Password: string;
```

## Description

The **Password** property specifies the password used to log in to the remote FTP host.

**Scope:** Published

**Accessibility:** Runtime, Design-time

## Notes:

If the password supplied is invalid, the **OnAuthenticationFailed** event is called.

If there is no password supplied, the **OnAuthenticationNeeded** event is called.

The password supplied must correspond with the user ID specified by the **UserID** property.

## See also

[OnAuthenticationFailed](#) event  
[OnAuthenticationNeeded](#) event  
[UserID](#) property

# UserID property

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
property UserID: string;
```

## Description

The **UserID** property specifies the user ID to use when logging on to the remote FTP host.

**Scope:** Published

**Accessibility:** Runtime, design-time

## Notes:

If the User ID supplied is invalid, the **OnAuthenticationFailed** event is called.

If there is no User ID supplied, the **OnAuthenticationNeeded** event is called.

The User ID supplied must correspond with the password specified by the **Password** property.

## See also

[OnAuthenticationFailed](#) event  
[OnAuthenticationNeeded](#) event  
[Password](#) property

# Vendor property

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
property Vendor: integer;
```

## Description

The **Vendor** property specifies the vendor of the FTP host that is being connected to. This allows the component to parse directory listings sent from the host in the proper manner. If the Vendor is not known, the default value should auto detect the vendor for you.

**Default:** NMOS\_AUTO

**Range:** Any of the following constants may be used for the **Vendor** property in your code:

```
NMOS_UNIX  
NMOS_WINDOWS  
NMOS_VM  
NMOS_BULL  
NMOS_MAC  
NMOS_TOPS20  
NMOS_VMS  
NMOS_OS2  
NMOS_MVS_IBM  
NMOS_MVS_INTERLINK  
NMOS_OTHER  
NMOS_AUTO  
NMOS_NT  
NMOS_TANDEM  
NMOS_AS400  
NMOS_OS9  
NMOS_NETWARE
```

## Notes:

If the Vendor property is set to NMOS\_AUTO, the component will try to auto-detect the type of host.

**See also**

[FTPDirectoryList](#) property

## Allocate method

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
procedure Allocate(FileSize: Integer);
```

### Description

The **Allocate** method is used for allocating space on the remote host for storing files.

### Parameters:

The **FileSize** parameter specifies the number of bytes to allocate on the server for the incoming file.

### Notes:

This method is not required under most circumstances. It has been included to comply with the RFC, and to provide support for servers that require disk space to be allocated before an upload can be performed.

## See also

[OnFailure](#) event

[OnSuccess](#) event

[OnUnsupportedFunction](#) event

[Upload](#) method

# ChangeDir method

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
procedure ChangeDir(DirName: string);
```

## Description

The **ChangeDir** method changes the current (also called "working") directory.

## Parameters:

The **DirName** parameter specifies the directory name to change to. This can be a directory that resides in the current working directory, or a full path.

## Notes:

When the **ChangeDir** method is called, the **CurrentDir** property will change.

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called.

In either case, cmdChangeDir is passed as the **Trans\_Type** parameter in the event.

## See also

[CurrentDir](#) property

[OnFailure](#) event

[OnSuccess](#) event

[OnUnsupportedFunction](#) event

## Delete method

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
procedure Delete(Filename: string);
```

### Description

The **Delete** method deletes a file from the remote host.

### Parameters:

The **FileName** parameter specifies the file on the remote host to delete. This can be the name of a file in the current working directory, or the path and filename of a file elsewhere on the remote system.

### Notes:

You must have write privileges in the current working directory in order to delete files.

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called.

In either case, cmdDelete is passed as the **Trans\_Type** parameter in the event.

## See also

[OnFailure](#) event

[OnSuccess](#) event

[OnUnsupportedFunction](#) event

# DoCommand method

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
procedure DoCommand(CommandStr: string);
```

## Description

The **DoCommand** method is used for sending a command to the remote FTP host. This method is especially useful for use with custom FTP hosts, that may have non-standard commands, or for support of unimplemented commands.

## Parameters:

The **CommandStr** parameter is the command that is to be sent to the server. This can be as simple as 'PWD' (command for obtaining the name of the current directory), or as complex as a multi-file download.

## Notes:

This method is used internally in the component as well for executing many of the commands available.

## See also

[OnFailure](#) event

[OnSuccess](#) event

## Download method

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
procedure Download(RemoteFile, LocalFile: string);
```

### Description

The **Download** method is used for downloading files from the remote FTP host to the local computer.

### Parameters:

The **RemoteFile** parameter specifies the name of a file in the current working directory on the remote host to be downloaded.

The **LocalFile** parameter specifies the name the file will have when retrieved and stored on the local machine. Please note, if a file with the same name already exists locally, **the existing file is overwritten.** If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called. In either case, cmdDownload is passed as the **Trans\_Type** parameter in the event.

## See also

[Mode](#) method

[OnFailure](#) event

[OnSuccess](#) event

[OnTransactionStart](#) event

[OnTransactionStop](#) event

[DownloadRestore](#) method

[Upload](#) method

# DownloadRestore method

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
procedure DownloadRestore(RemoteFile, LocalFile: string);
```

## Description

The DownloadRestore method continues a file transfer that was previously interrupted. This can only be done if there is a part of the file downloaded onto the local drive.

## Parameters:

The **RemoteFile** parameter specifies the name of the file to continue downloading.

The **LocalFile** parameter specifies the name of the file on the local drive that contains part of the remote file.

## Notes:

Not all hosts support DownloadRestore.

If this command is successful, the **OnSuccess** event will be called, otherwise the **OnFailure** event will be called.

## See also

[Download](#) method

[Mode](#) method

[OnFailure](#) event

[OnSuccess](#) event

[OnTransactionStart](#) event

[OnTransactionStop](#) event

[OnUnsupportedFunction](#) event

[UploadRestore](#) method

## Example

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

Place 7 TButtons, 3 TEdits, a TMemo, a TOpenDialog, a TStatusBar, and a TNMFTP on the form.

Component Descriptions:

Button1: Connect

Button2: Disconnect

Button3: Abort

Button4: Download

Button5: DownloadRestore

Button6: Change Directory

Button7: List

Edit1: FTP Host Name

Edit2: FTP User ID

Edit3: FTP Password

Memo1: Directory listing box

Insert the following code into Button1's OnClick event:

```
procedure TForm1.Button1Click(Sender: TObject);  
begin  
    NMFTP1.Host := Edit1.Text;  
    NMFTP1.UserID := Edit2.Text;  
    NMFTP1.Password := Edit3.Text;  
    NMFTP1.Connect;  
end;
```

Insert the following code into NMFTP1's OnConnect event:

```
procedure TForm1.NMFTP1Connect(Sender: TObject);  
begin  
    StatusBar1.SimpleText := 'Connected';  
    NMFTP1.Mode(MODE_IMAGE);  
end;
```

When the client connects to the remote FTP host, the **OnConnect** method is called. Here, the status bar is updated to inform the user of the connection, and the **Mode** method is called to set the data transfer mode to MODE\_IMAGE.

Insert the following code into Button2's OnClick event:

```
procedure TForm1.Button2Click(Sender: TObject);  
begin  
    NMFTP1.Disconnect;  
end;
```

Insert the following code into NMFTP1's OnDisconnect event:

```
procedure TForm1.NMFTP1Disconnect(Sender: TObject);  
begin
```

```
    StatusBar1.SimpleText := 'Disconnected';  
end;
```

Insert the following code into NMFTP1's OnListItem event:

```
procedure TForm1.NMFTP1ListItem(Listing: String);  
begin  
    Memo1.Lines.Add(Listing);  
end;
```

Insert the following code into Button3's OnClick event:

```
procedure TForm1.Button3Click(Sender: TObject);  
begin  
    NMFTP1.Abort;  
end;
```

Insert the following code into Button4's OnClick event:

```
procedure TForm1.Button4Click(Sender: TObject);  
var  
    RemoteFileName: String;  
begin  
    if InputQuery('Download', 'Remote File: ', RemoteFileName) then  
        if OpenFileDialog1.Execute then  
            NMFTP1.Download(RemoteFileName, OpenFileDialog1.FileName);  
end;
```

Insert the following code into NMFTP1's OnPacketRecvd event:

```
procedure TForm1.NMFTP1PacketRecvd(Sender: TObject);  
begin  
    StatusBar1.SimpleText := IntToStr(NMFTP1.BytesRecvd)+' bytes out of '+IntToStr(NMFTP1.BytesTotal)  
    +' received';  
end;
```

Insert the following code into NMFTP1's OnTransactionStart event:

```
procedure TForm1.NMFTP1TransactionStart(Sender: TObject);  
begin  
    StatusBar1.SimpleText := 'Beginning Data Transfer';  
end;
```

Insert the following code into NMFTP1's OnTransactionStop event:

```
procedure TForm1.NMFTP1TransactionStop(Sender: TObject);  
begin  
    StatusBar1.SimpleText := 'Data Transfer complete';  
end;
```

Insert the following code into NMFTP1's OnUnSupportedFunction event:

```
procedure TForm1.NMFTP1UnSupportedFunction(Trans_Type: TCmdType);  
begin  
    if Trans_Type = cmdDownRestore then  
        ShowMessage('DownloadRestore not supported');  
end;
```

If the **DownloadRestore** method is not supported by the server currently connected to, the **OnUnSupportedFunction** event is called. Here, a message box is shown stating that the DownloadRestore method is unsupported.

Insert the following code into NMFTP1's OnSuccess event:

```
procedure TForm1.NMFTP1Success(Trans_Type: TCmdType);  
begin  
    if Trans_Type = cmdDownRestore then  
        StatusBar1.SimpleText := 'DownloadRestore successful';  
    if Trans_Type = cmdChangeDir then  
        StatusBar1.SimpleText := 'Directory changed to '+NMFTP1.CurrentDir;  
end;
```

If the **DownloadRestore** or **Download** method executes successfully, the **OnSuccess** event updates the status bar to display the success.

Insert the following code into Button6's OnClick event:

```
procedure TForm1.Button6Click(Sender: TObject);  
var  
    Dir: String;  
begin  
    if InputQuery('Change Directory', 'Directory Name: ', Dir) then  
        NMFTP1.ChangeDir(Dir);  
end;
```

Insert the following code into Button7's OnClick event:

```
procedure TForm1.Button7Click(Sender: TObject);  
begin  
    Memo1.Clear;  
    Memo1.Lines.Add('Listing of '+NMFTP1.CurrentDir);  
    Memo1.Lines.Add('-----');  
    NMFTP1.List;  
end;
```

Insert the following code into Button5's OnClick event:

```
procedure TForm1.Button5Click(Sender: TObject);  
var  
    RemoteFileName: String;  
begin
```

```
if InputQuery('Download Restore', 'Remote File: ', RemoteFileName) then
  if OpenFileDialog1.Execute then
    NMFTP1.DownloadRestore(RemoteFileName, OpenFileDialog1.FileName);
end;
```

When Button5 is clicked, the InputQuery function is used to retrieve the name of the remote file to download. If a filename is entered, and the ok button clicked, the OpenFileDialog is executed so the user can choose the file to continue downloading. If the user clicks the Open button, the **DownloadRestore** method is called to continue the interrupted download.

**Running this example:**

After compiling and running this example, connect to any give FTP server. Begin the download of a file using the download button, and once the download is underway, click the Abort button. Reconnect to the server, and the click the download restore button. Select the same remote file, and local file name and location as you did with the download, and the file will continue downloading.

## List method

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
procedure List;
```

### Description

The **List** method is used for getting a list of files and directories from the remote host. The listing retrieved is for the current working directory.

### Notes:

For each item listed, the **OnListItem** event is called.

If the **ParseList** property is set to TRUE, the **FTPDirectoryList** property will contain the elements for each listing, including name, size, and attributes.

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called. In either case, cmdList is passed as the **Trans\_Type** parameter in the event.

## See also

[FTPDirectoryList](#) property

[NList](#) method

[OnFailure](#) event

[OnListItem](#) event

[OnSuccess](#) event

[OnTransactionStart](#) event

[OnTransactionStop](#) event

# MakeDirectory method

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
procedure MakeDirectory(DirectoryName: string);
```

## Description

The **MakeDirectory** method creates a directory in the current working directory on the remote FTP host.

## Parameters:

The **DirectoryName** parameter specifies the name of the directory to create on the remote host. This can be a single directory name to be created in the current working directory, or a full directory path.

## Notes:

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called. In either case, cmdMakeDir is passed as the **Trans\_Type** parameter in the event.

## See also

[OnFailure](#) event

[OnSuccess](#) event

[OnUnsupportedFunction](#) event

[RemoveDir](#) method

## Mode method

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
procedure Mode(TheMode: Integer);
```

### Description

The **Mode** method changes the file transfer mode used when transferring files between the remote host and the local computer.

### Parameters:

The **TheMode** parameter specifies the transfer mode to use. Any of the following values may be used:

MODE\_ASCII - Sends data as ASCII text

MODE\_IMAGE - raw binary data in 8-bit bytes

MODE\_BYTE - raw binary data using variable-length bytes

## See also

[Download](#) method

[DownloadRestore](#) method

[Upload](#) method

[UploadAppend](#) method

[UploadRestore](#) method

[UploadUnique](#) method

## Nlist method

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
procedure Nlist;
```

### Description

The **NList** method is used to retrieve just the names of files and directories in the current working directory.

### Notes:

For each item that gets listed, the **OnListItem** event is called.

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called.

In either case, cmdNList is passed as the **Trans\_Type** parameter in the event.

## See also

[List](#) method

[OnFailure](#) event

[OnListItem](#) event

[OnSuccess](#) event

[OnTransactionStart](#) event

[OnTransactionStop](#) event

[OnUnsupportedFunction](#) event

## Reinitialize method

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
procedure Reinitialize;
```

### Description

The **Reinitialize** method is used to reset the connection with the server. This leaves the connection with the remote host at the point right before the Authentication (UserID and Password) takes place.

### Notes:

After a call to Reinitialize, the connection is left in an unusable state. Before proceeding with further FTP transactions, you must resend the user ID and password. Otherwise, any commands executed will fail. See the **Example** for more details.

## See also

[OnFailure](#) event

[OnSuccess](#) event

[OnUnsupportedFunction](#) event

[Password](#) property

[UserID](#) property

## RemoveDir method

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
procedure RemoveDir(DirectoryName: string);
```

### Description

The **RemoveDir** method is used to remove a directory on the remote FTP host.

### Parameters:

The **DirectoryName** parameter specifies the name of the directory to remove. This can be the name of a directory that resides within the current working directory, or a full directory path.

### Notes:

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called. In either case, cmdRemoveDir is passed as the **Trans\_Type** parameter in the event.

## See also

[MakeDirectory](#) method

[OnFailure](#) event

[OnSuccess](#) event

[OnUnsupportedFunction](#) event

# Rename method

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
procedure Rename(Filename, FileName2: string);
```

## Description

The **Rename** method is used to rename a file in the current working directory on the remote FTP host.

## Parameters:

The **FileName** parameter specifies the name of the file that will be renamed.

The **FileName2** parameter specifies the new name for the file.

These parameters can be the name of a file in the current working directory, or the path and filename of a file elsewhere on the system.

## Notes:

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called. In either case, cmdRename is passed as the **Trans\_Type** parameter in the event.

## See also

[OnFailure](#) event

[OnSuccess](#) event

[OnUnsupportedFunction](#) event

# Upload method

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
procedure Upload(LocalFile, RemoteFile: string);
```

## Description

The **Upload** method is used for sending a file on the local computer to the remote host.

## Parameters:

The **LocalFile** parameter specifies the name of the file on the local computer that will be sent to the remote host.

The **RemoteFile** parameter specifies the name the file will have on the remote host when it is sent.

## Notes:

Please note, if a file with the same name already exists on the remote host, **the existing file is overwritten.**

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called. In either case, cmdUpload is passed as the **Trans\_Type** parameter in the event.

## See also

[Download](#) method

[OnFailure](#) event

[OnSuccess](#) event

[OnTransactionStart](#) event

[OnTransactionStop](#) event

[OnUnsupportedFunction](#) event

[UploadAppend](#) method

[UploadRestore](#) method

[UploadUnique](#) method

# UploadAppend method

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
procedure UploadAppend(LocalFile, RemoteFile: string);
```

## Description

The **UploadAppend** method is used for storing a file on the local computer on the remote FTP host. If a file with the same name already exists, the new file is appended to the end of the existing file.

## Parameters:

The **LocalFile** parameter specifies the name of the file on the local computer to send to the remote host. The **RemoteFile** parameter specifies the name the file will have on the remote FTP host. If a file with this name already exists, the local file is appended to the end of the existing remote file.

## Notes:

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called. In either case, cmdAppend is passed as the **Trans\_Type** parameter in the event.

## See also

[Download](#) method

[OnFailure](#) event

[OnSuccess](#) event

[OnTransactionStart](#) event

[OnTransactionStop](#) event

[OnUnsupportedFunction](#) event

[Upload](#) method

[UploadRestore](#) method

[UploadUnique](#) method

## UploadRestore method

[See also](#)      [Example](#)

### Applies to

[TNMFTP](#) component

### Declaration

```
procedure UploadRestore(LocalFile, RemoteFile: string; Position: Integer);
```

### Description

The **UploadRestore** method is used for continuing the upload of a file on the local computer to the remote FTP host.

### Parameters:

The **LocalFile** parameter specifies the name of the file on the local computer to send to the remote host.

The **RemoteFile** parameter specifies the name the file will have when sent to the remote host. When using this method, this file should already partly exist on the remote FTP host.

The **Position** parameter specifies how far into the file to start the transfer. If 100 bytes were sent successfully before the transfer was interrupted previously, the position would be 101.

### Notes:

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called. In either case, cmdUpRestore is passed as the **Trans\_Type** parameter in the event.

## See also

[Download](#) method

[OnFailure](#) event

[OnSuccess](#) event

[OnTransactionStart](#) event

[OnTransactionStop](#) event

[OnUnsupportedFunction](#) event

[Upload](#) method

[UploadAppend](#) method

[UploadUnique](#) method

# UploadUnique method

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
procedure UploadUnique(LocalFile: string);
```

## Description

The **UploadUnique** method is used for upload a file to the remote host. The name of the file on the local computer is used for the filename on the remote FTP host. If a file with the same name already exists, a unique name is used for the file.

## Parameters:

The **LocalFile** parameter specifies the file on the local computer that will be sent to the remote host.

## Notes:

If the file specifies already exists on the remote host, the file will be given a new name when it is uploaded.

If this command succeeds, the **OnSuccess** event will be called, otherwise the **OnFailure** event is called. In either case, cmdUpload is passed as the **Trans\_Type** parameter in the event.

## See also

[Download](#) method

[OnFailure](#) event

[OnSuccess](#) event

[OnTransactionStart](#) event

[OnTransactionStop](#) event

[OnUnsupportedFunction](#) event

[Upload](#) method

[UploadAppend](#) method

[UploadRestore](#) method

# OnAuthenticationFailed event

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

**property** OnAuthenticationFailed: [THandlerEvent](#);

## Description

The **OnAuthenticationFailed** event is called when either the **UserID** property or the **Password** property are invalid. This could be due to an invalid account name (UserID), or an invalid password.

## Event Parameters:

If the **Handled** parameter is set to TRUE, authentication will be attempted again to complete the login with the remote host. If the **Handled** parameter is set to FALSE (the default), or if the second attempt at logging in fails, an exception will be raised.

## See also

[OnAuthenticationNeeded](#) event

[Password](#) property

[UserID](#) property

# OnAuthenticationNeeded event

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

**property** OnAuthenticationNeeded: [THandlerEvent](#);

## Description

The **OnAuthenticationNeeded** event is called when either the **UserID** property or the **Password** property are blank.

## Event Parameters:

If the **Handled** parameter is left FALSE, an exception will be raised, and the connection will be aborted.

If the **Handled** parameter is set to TRUE, and a UserID and/or Password are provided, the authentication will be attempted again. If it fails a second time, an exception will be raised and the connection is aborted.

## Notes:

This event is typically called when the **Connect** method is called, and there is no user ID and/or password supplied.

## See also

[OnAuthenticationFailed](#) event

[Password](#) property

[UserID](#) property

# OnFailure event

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
property OnFailure: TFailureEvent;
```

## Description

The **OnFailure** event is called if an executed FTP command fails.

## Event Parameters:

If the **Handled** parameter is set to TRUE, an exception is not raised.

If the **Handled** parameter is set to FALSE, an exception will be raised due to the failing command.

The **Trans\_Type** parameter specifies the command that failed. The following are the possible values for this parameter:

- cmdChangeDir
- cmdMakeDir
- cmdDelete
- cmdRemoveDir
- cmdList
- cmdRename
- cmdUpRestore
- cmdDownRestore
- cmdDownload
- cmdUpload
- cmdAppend
- cmdReInit
- cmdAllocate
- cmdNList
- cmdDoCommand
- cmdCurrentDir

## See also

[Allocate](#) method  
[ChangeDir](#) method  
[CurrentDir](#) property  
[Delete](#) method  
[DoCommand](#) method  
[Download](#) method  
[DownloadRestore](#) method  
[List](#) method  
[MakeDirectory](#) method  
[NList](#) method  
[OnSuccess](#) event  
[Reinitialize](#) method  
[RemoveDir](#) method  
[Rename](#) method  
[Upload](#) method  
[UploadAppend](#) method  
[UploadRestore](#) method

# OnSuccess event

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

**property** OnSuccess: [TSuccessEvent](#);

## Description

The **OnSuccess** event is called when a command completes successfully.

## Event Parameters:

The **Trans\_Type** parameter specifies the command that completed successfully. The possible values for this parameter are listed below:

- cmdChangeDir
- cmdMakeDir
- cmdDelete
- cmdRemoveDir
- cmdList
- cmdRename
- cmdUpRestore
- cmdDownRestore
- cmdDownload
- cmdUpload
- cmdAppend
- cmdReInit
- cmdAllocate
- cmdNList
- cmdDoCommand
- cmdCurrentDir

## See also

[Allocate](#) method  
[ChangeDir](#) method  
[CurrentDir](#) property  
[Delete](#) method  
[DoCommand](#) method  
[Download](#) method  
[DownloadRestore](#) method  
[List](#) method  
[MakeDirectory](#) method  
[NList](#) method  
[OnFailure](#) event  
[Reinitialize](#) method  
[RemoveDir](#) method  
[Rename](#) method  
[Upload](#) method  
[UploadAppend](#) method  
[UploadRestore](#) method

# OnTransactionStart event

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

**property** OnTransactionStart: TNotifyEvent;

## Description

The **OnTransactionStart** event is called each time data is sent from the remote host to the local computer using the Data socket.

## Notes:

The following methods will execute the OnTransactionStart event:

[List](#)

[Download](#)

[UploadUnique](#)

[Upload](#)

[NList](#)

[DownloadRestore](#)

[UploadAppend](#)

[UploadRestore](#)

## See also

[Download](#) method

[DownloadRestore](#) method

[List](#) method

[NList](#) method

[OnTransactionStop](#) event

[UploadUnique](#) method

[Upload](#) method

[UploadAppend](#) method

[UploadRestore](#) method

# OnTransactionStop event

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

```
property OnTransactionStop: TNotifyEvent;
```

## Description

The **OnTransactionStop** event is called when a data transfer from the remote FTP host to the local computer has completed.

## Notes:

The following methods will cause the OnTransactionStop event to execute:

- [List](#)
- [Download](#)
- [UploadUnique](#)
- [Upload](#)
- [NList](#)
- [DownloadRestore](#)
- [UploadAppend](#)
- [UploadRestore](#)

## See also

[Download](#) method  
[DownloadRestore](#) method  
[List](#) method  
[NList](#) method  
[OnTransactionStart](#) event  
[UploadUnique](#) method  
[Upload](#) method  
[UploadAppend](#) method  
[UploadRestore](#) method

# OnUnSupportedFunction event

[See also](#)      [Example](#)

## Applies to

[TNMFTP](#) component

## Declaration

**property** OnUnSupportedFunction: [TUnsupportedEvent](#);

## Description

The **OnUnSupportedFunction** event is called when an FTP command fails to execute because it is not implemented on the remote FTP host.

## Event Parameters:

The Trans\_Type parameter specifies which command failed to execute. The possible values for this parameter are listed below.

- cmdChangeDir
- cmdMakeDir
- cmdDelete
- cmdRemoveDir
- cmdList
- cmdRename
- cmdUpRestore
- cmdDownRestore
- cmdDownload
- cmdUpload
- cmdAppend
- cmdReInit
- cmdAllocate
- cmdNList
- cmdDoCommand
- cmdCurrentDir

## See also

[DoCommand](#) method

[Download](#) method

[List](#) method

[Rename](#) method

[UploadUnique](#) method

[Upload](#) method

# TCmdType type

## Unit

[NMFTP](#)

## Declaration

### type

```
TCmdType = (cmdChangeDir, cmdMakeDir, cmdDelete, cmdRemoveDir, cmdList, cmdRename, cmdUpRestore, cmdDownRestore, cmdDownload, cmdUpload, cmdAppend, cmdReInit, cmdAllocate, cmdNList, cmdDoCommand, cmdCurrentDir);
```

## Description

The **TCmdType** type provides a simple way of referencing the commands available to the TNMFTP component.

---

### Member Descriptions:

cmdChangeDir - ChangeDir method  
cmdMakeDir - MakeDirectory method  
cmdDelete - Delete method  
cmdRemoveDir - RemoveDir method  
cmdList - List method  
cmdRename - Rename method  
cmdUpRestore - UploadRestore method  
cmdDownRestore - DownloadRestore method  
cmdDownload - Download method  
cmdUpload - Upload and UploadUnique methods  
cmdAppend - UploadAppend method  
cmdReInit - Reinitialize method  
cmdAllocate - Allocate method  
cmdNList - NList method  
cmdDoCommand - DoCommand method  
cmdCurrentDir - accessing the CurrentDir property

# TFailureEvent type

## Unit

[NMFtp](#)

## Declaration

**type**

```
TFailureEvent = procedure (var Handled: Boolean; Trans_Type: TCmdType) of  
object;
```

## Description

The **TFailureEvent** event type is used for the **OnFailure** event.

The **Handled** parameter determines whether the component's default actions will be carried out or not.

See event descriptions for a more detailed description of the role the **Handled** parameter takes.

The **Trans\_Type** parameter specifies the command that failed.

## TNMListItem type

### Unit

[NMFtp](#)

### Declaration

type

```
TNMListItem = procedure(Listing: string) of object;
```

### Description

The **TNMListItem** event type is used for listing strings items one by one in an event. This is used for the **OnListItem** event, which returns listings from the **List** method and the **NList** method.

The **Listing** parameter contains the current item that has been listed.

## TSuccessEvent type

### Unit

[NMFtp](#)

### Declaration

```
type TSuccessEvent = procedure (Trans_Type: TCmdType) of object;
```

### Description

The **TSuccessEvent** event type is used by the **OnSuccess** event when a command executes successfully.

The **Trans\_Type** parameter specifies the command that executed successfully.

# TUnsupportedEvent type

## Unit

[NMFtp](#)

## Declaration

**type**

```
TUnsupportedEvent = procedure (Trans_Type: TCmdType) of object;
```

## Description

The **TUnsupportedEvent** event type is used in the **OnUnsupportedFunction** event. This passes the command that is unsupported to the event for handling by the application developer.

## Legend

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

# Heirarchy

TObject

|

TPersistent

|

TComponent

|

TPowersock

