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1 Components Overview



SendMail - used for sending e-mail messages via SMTP servers. The messages can be either in plain text or HTML format, contain attachments or embedded images for HTML contents. You can use the SendMail for dispatching of messages by mailing lists, specifying multiple recipients.



TextTemplateConverter - the utility which translates some specified %keywords% inside the text into some specified values. It can be used as plug-in for **SendMail** component to replace some keywords in the email templates (like %recipient_email% or %sender_name%) to their actual values.

SendMail component (<http://www.appcontrols.com>)
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2 Installation Instructions

to Delphi 5

1. Create "..\Lib\SendMail" directory.
2. Unzip files and copy them to "..\Lib\SendMail".
3. Start Delphi 5 IDE.
4. Open "SendMailD5.dpk" file.
5. Install package to the components palette ("Install" button).

to Delphi 6

1. Create "..\Lib\SendMail" directory.
2. Unzip files and copy them to "..\Lib\SendMail".
3. Start Delphi 6 IDE.
4. Open "SendMailD6.dpk" file.
5. Install package to the components palette ("Install" button).

to Delphi 7

1. Create "..\Lib\SendMail" directory.
2. Unzip files and copy them to "..\Lib\SendMail".
3. Start Delphi 7 IDE.
4. Open "SendMailD7.dpk" file.
5. Install package to the components palette ("Install" button).

to C++ Builder 5

1. Create "..\Lib\SendMail" directory.
2. Unzip files and copy them to "..\Lib\SendMail".
3. Start C++ Builder 5 IDE.
4. Open "SendMailCB5.bpk" file.
5. Install package to the components palette ("Install" button).

to C++ Builder 6


1. Create "..\Lib\SendMail" directory.
2. Unzip files and copy them to "..\Lib\SendMail".
3. Start C++ Builder 6 IDE.

4. Open "SendMailCB6.bpk" file.
5. Install package to the components palette ("Install" button).

Source Code

1. Uninstall / delete all previous (trial) instances of SendMail.
2. Create "..\Lib\SendMail" directory.
3. Unzip files from "Sources" directory and copy them to "..\Lib\SendMail".
4. Run Delphi IDE.
5. Select "Component \ Install..." menu item.
6. Press "Add" button and select "SendMail.pas" file.
7. Rebuild library.

Notes for C++ Builder users

 When you will build the project with SendMail, you may get following compiler error:
[C++ Error] SHDocVw.hpp(893): E2293) expected, at the following line:

```
/* TWinControl.CreateParented */ inline __fastcall TWebBrowser(HWND ParentWindow)  
: OleCtrls::TOleControl(ParentWindow) { }
```

Please manually edit the SHDocVw.hpp and change this line to

```
/* TWinControl.CreateParented */ inline __fastcall TWebBrowser(HANDLE  
ParentWindow) : OleCtrls::TOleControl(ParentWindow) { }
```

Also you can get another linker error:

SendMail.hpp E2209 Unable to open include file 'MSHTML.hpp'.

Please just replace MSHTML.hpp to MSHTML.h. For some reason BCB comes with MSHTML.h file instead of *.hpp.

SendMail (<http://www.appcontrols.com>)

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3 Registration Information

SendMail component is SHAREWARE. This means that you can try it out for free, but if you like it and want to use it you have to register it with the author. Before continue read and accept [license agreement](#) please.

The only difference between the unregistered and registered versions is that the registered one has not message box with remind to register and works without Delphi (C++ Builder) running. You can also purchase the [source code](#), if you would like to have it, and be able to compile or modify the SendMail on any 32bit version of Delphi or C++ Builder (higher than Delphi 5 or BCB 5).

If you would like to use the SendMail and receive full, unrestricted version, priority support or even source code — you have to purchase proper license.

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5 SendMail component

5.1 TSendMail

Overview

The SendMail component used for sending e-mail messages via SMTP servers. The messages can be either in plain text or HTML format, contain attachments or *embedded images* for HTML contents. You can use the SendMail for mass dispatching of messages by mailing lists, specifying multiple recipients.

For more information about SMTP protocol see RFC 821.

How to use?

SMTP server

First you should specify SMTP server which will relay messages to recipients. Set the hostname and port number to [SMTPHost](#) and [SMTPPort](#) properties. In case if specified SMTP server requires secure authentication — set [Authentication.Enabled](#) property to True and provide the [Username](#) and [Password](#).

Sender and recipients

The name and email address of sender should be specified in [FromName](#) and [FromAddress](#) properties (or leave them blank if you sending anonymous message). Recipients should be listed in [ToAddr](#), [ToCC](#) or [ToBCC](#) properties. (Addresses listed in [ToBCC](#) (blind carbon-copy) will not be included to the header of message.)

Message

Set the body of the message to [MsgBody](#) and subject of message to [MsgSubject](#) property. If you wish to send HTML-formatted message — set [MsgContentType](#) to `ctHTML`. If you use foreign language (with non-latin character) — specify content charset in [MsgContentCharset](#) property. Also you can specify the priority (level of importance) of message in [MsgPriority](#) property.

Attachment

All files which should be attached to message should be listed in [Attach](#) property. There are two attachment types — normal and embedded (see [AttachType](#) property). Use `ctEmbedded` type if you wish to use some attached pictures in HTML-based message (see also [MsgContentType](#) property).

Sending or saving the message

Use [Send](#) method to dispatch the message to SMTP server or [SaveToFile](#) to save generated message to disk. Use [Abort](#) to terminate connection with SMTP server.

Event handlers

Write [OnProgress](#) and [OnResponse](#) event handlers to display the progress and status of

dispatching. Hook [OnHostUnreachable](#), [OnConnLost](#) and [OnSMTPError](#) events to be notified errors (or use [OnAnyError](#) event to be notified about ANY fatal error). Write [OnSuccess](#) event to notify user about successful dispatching of e-mail message.

new! *Email templates*

The SendMail can automatically translate the email templates and replace all the keywords like %RECIPIENT_NAME% or %RECIPIENT_EMAIL% to their actual values. You just need to specify some keywords which are used in your template and values which should replace the keywords in the outgoing message. See [TemplateConverter](#) property for more details.

Usage example

In Delphi: <http://www.appcontrols.com/demos/tsendmaildemo-delphi.zip>

In C++ Builder: <http://www.appcontrols.com/demos/tsendmaildemo-bcb.zip>

Compiled executable: <http://www.appcontrols.com/demos/exe/SendMailDemo.exe>

See also

[TextTemplateConverter](#) component;

SMTP protocol reference (rfc821); MIME references (rfc2045, rfc2046, rfc2047, rfc2048, rfc2049).

5.2 Properties

5.2.1 AddHeaders

Applies to

[SendMail](#) component.

Declaration

property AddHeaders: TStringList;

Description

The AddHeaders property specifies additional headers of the e-mail message. You can specify ANY optional headers that may be required by mail client to process and display the message.

Specify one header per line. The format should looks like:

FieldName: Value

For example

X-ResentFrom: <email@address.com>

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000

X-Antivir-Status: Clean

and so forth...

See also (*fields automatically included to the header of message*)

[Agent](#), [FromAddress](#), [FromName](#), [FromOrganization](#), [MsgContentCharset](#), [MsgContentType](#), [MsgPriority](#), [MsgSubject](#), [ReplyTo](#), [ToAddr](#) and [ToCC](#) properties.

5.2.2 Agent

Applies to

[SendMail](#) component.


Declaration

property Agent: String;

Description

The Agent property is the value that specifies the name and type of the e-mail client. You can

specify ANY value, this is just optional identifier of the program which sends the message.

 The value of Agent property automatically includes to the header of message as "X-Mailer" field. Leave the Agent value blank if you don't want to include the program identifier to the message.

See also *(optional headers)*

[AddHeaders](#) and [MsgPriority](#) properties.

5.2.3 Attach

Applies to

[SendMail](#) component.


Declaration


```
property Attach: TStringList;
```

Description

The Attach property specifies the file names which should be included to the e-mail message on dispatching.

The Attach property is the list of strings (TStringList), where every line is the file name including full path to the file.

 The files can be attached as "external" or as "internal" (embedded) data. For example, you might want to embed additional pictures to the body of HTML message. See [AttachType](#) property for more details.

 If attached file could not be found (moved, renamed or deleted before sending), the [OnCantAttach](#) event occurs. However, this is not fatal error and SendMail usually continue sending the e-mail, skipping the lost file.

Example

```
procedure TForm1.AttachBtnClick(Sender: TObject);
var
  I: Integer;
begin
  with OpenDialog1 do // TOpenDialog on form
    if Execute and (I <> Files.Count) then
      for I := 0 to Files.Count - 1 do
        SendMail1.Attach.Add(Files[I]);
end;
```

See also

[AttachType](#) property;
[OnCantAttach](#) event.

5.2.4 AttachType

Applies to

[SendMail](#) component.

Declaration

```
type
  TacSMTPAttachType = (atNormal, atEmbedded);


property AttachType: TacSMTPAttachType;
```

Description

The AttachType property controls how the SendMail should envelop the attached files (listed in [Attach](#) property).

There are two possible types of attachment:

Value	Meaning
<i>atNormal</i>	normal attachment. User will be able to save attached files to disk or execute attached files directly from message;
<i>atEmbedded</i>	embed attached pictures to the body of message and "hide" them. Use this attachment type only for HTML-based message (when MsgContentType = ctHTML). <i>Note: pictures will be embedded only if you're showing them in HTML-based message (use tags).</i>

 If you would like to show embedded pictures in the HTML message, use the filename of attached message as "content-identifier". To show embedded pictures use following tag:

```
 or...
<body background="cid:filename">
```

Example:

```
<body background="cid:background.jpg">
  
</body>
```

(Note: "background.jpg" and "Banner.gif" files should be attached to the message).

See also

[Attach](#) and [MsgContentType](#) properties.

5.2.5 Authentication**Applies to**

[SendMail](#) component.

Declaration

```
type
  TSendMailAuthentication = class
    published
      property Enabled: Boolean default False;
      property Username: String;
      property Password: String;
    end;
```

Description

The Authentication structure used to specify whether the [SMTP server](#) requires authentication (set [Enabled](#) to True, if it requires), and to provide the [Username](#) and [Password](#) for user authentication.

See also

[SMTPHost](#) and [SMTPPort](#) properties.

5.2.5.1 Enabled**Applies to**

[SendMail](#) component as sub-property of [Authentication](#) structure.

Declaration

```
property Enabled: Boolean default False;
```

Description

The Enabled property specifies whether the component should send [Username](#) and [Password](#) for secure authentication with [SMTP server](#).

Set Enabled to True if authentication required, or False otherwise.

See also

[Enabled](#), [Username](#) and [Password](#) properties.

5.2.5.2 Password

Applies to

[SendMail](#) component as sub-property of [Authentication](#) structure.

Declaration

```
property Password: String;
```

Description

The Password property specifies the password required for secure authentication with [SMTP server](#).

See also

[Enabled](#), [Username](#) and [Password](#) properties.

5.2.5.3 Username

Applies to

[SendMail](#) component as sub-property of [Authentication](#) structure.

Declaration

```
property Username: String;
```

Description

The Username property specifies the username required for secure authentication with [SMTP server](#).

See also

[Enabled](#), [Username](#) and [Password](#) properties.

5.2.6 Busy

Applies to

[SendMail](#) component.


Declaration

```
property Busy: Boolean; // Read-only !!
```

Description

The Busy property determines whether the SendMail component (its thread) is busy on some operations. When Busy property is True, the SendMail currently sending e-mail messages to recipients.

Note

 You can NOT send any new e-mail message when the component is busy, and must wait until component [done](#) all operations. The [Send](#) method will return False when the component is busy.

See also

[Send](#) method; [OnSuccess](#) and [OnAnyError](#) events.

5.2.7 FromAddress

Applies to

[SendMail](#) component.


Declaration

```
property FromAddress: String;
```

Description

The FormAddress property specifies the name of sender (i.e: 'john@doe.com'). Leave it blank if you don't want to include the e-mail address to the header of message.

Note

 Some SMTP servers don't relay anonymous messages and requires e-mail address of sender to be specified.

See also

[FromName](#), [FromOrganization](#) and [ReplyTo](#) properties.

5.2.8 FromName

Applies to

[SendMail](#) component.

Declaration

```
property FromName: String;
```

Description

The FormName property specifies the name of sender (i.e: 'John Doe'). Leave it blank if you don't want to include the sender's name to the header of e-mail message.

See also

[FromAddress](#) and [FromOrganization](#) properties.

5.2.9 FromOrganization

Applies to

[SendMail](#) component.

Declaration

```
property FromOrganization: String;
```

Description

The FormOrganization property is optional value that specifies the company name of sender. Leave it blank if you don't want to include this value to the header of e-mail message.



If the value of FormOrganization property specified, it automatically includes to the header of message as "Organization" field.

See also

[FromAddress](#) and [FromName](#) properties.

5.2.10 MsgBody

Applies to

[SendMail](#) component.

Declaration

property `MsgBody: String;`

Description

The `MsgBody` property specifies the text of e-mail message.

The text can be either in plain or HTML format (depending on [MsgContentType](#) value). To specify the language of message (content encoding) — use [MsgContentCharset](#) property.

See also

[MsgSubject](#) and [TemplateConverter](#) properties.

5.2.11 MsgContentCharset

Applies to

[SendMail](#) component.


Declaration


property `MsgContentCharset: String; // 'iso-8859-1' by default`

Description

The `MsgContentCharset` property determines the characters set used in the text of e-mail message. This parameter always included to the message to allow the e-mail client to determine which charset should be used to display the message.

Note

 You should programmatically handle conversion of text to required code table if the content charset of e-mail is different than charset used on typing a message. Otherwise the text may appear to be broken. (FYI: 'iso-8859-1' is the standard Western European code table, AFAIK, 'iso-8859-1' is the same as 'us-ascii'.)

 The `SendMail` automatically converts the text from Windows to KOI8 table ('koi8-r' is the standard Russian charset used in e-mail messages), if the `When MsgContentCharset = 'koi8-r'`. (So Russian programmers may do not worry about this.)

See also

[MsgContentType](#), [MsgBody](#) and [MsgSubject](#) properties.

5.2.12 MsgContentType

Applies to

[SendMail](#) component.

Declaration**type**

`TacSMTPContentType = (ctPlainText, ctHTML);`

property `MsgContentType: TacSMTPContentType;`

Description

The `MsgContentType` property specifies the type of message content. The `MsgContentType` allows to email reader to determine which format should be used to display the message.

Set `MsgContentType` to `ctPlainText` if you wish the [MsgBody](#) contains only plain text, or set it to `ctHTML` to send HTML-formatted message.

See also

[MsgContentCharset](#), [MsgBody](#) and [MsgSubject](#) properties.

5.2.13 MsgDateTime

Applies to

[SendMail](#) component.

Declaration

```
property MsgDateTime: TDateTime;
```

Description

The MsgDateTime property specifies the date and time of outgoing message.

Usually you don't need to specify this property, because if the MsgDateTime is 0, the component will use current date/time on sending the message. Also the component automatically specifies the shift from GMT, using the international settings specifies on sender's machine.

See also

[MsgContentCharset](#), [MsgBody](#) and [MsgSubject](#) properties.

5.2.14 MsgPriority

Applies to

[SendMail](#) component.

Declaration**type**

```
TacSMTPPriority = (mpHighest, mpHigh, mpNormal, mpLow, mpLowest);
```

```
property MsgPriority: TacSMTPPriority; // mpNormal by default
```

Description

The MsgPriority property specifies an importance and priority of e-mail message. The priority of message will be shown by e-mail reader program. Also, most SMTP servers relays messages with the higher priorities earlier than messages with low priorities.



The value of MsgPriority property automatically includes to the header of message as "X-Priority" field.

See also (*optional headers*)

[AddHeaders](#) and [Agent](#) properties.

5.2.15 MsgSubject

Applies to

[SendMail](#) component.

Declaration

```
property MsgSubject: String;
```

Description

The MsgSubject property specifies the subject of e-mail message.

See also

[MsgBody](#), [MsgContentType](#) and [MsgContentCharset](#) properties.

5.2.16 ReplyTo

Applies to


[SendMail](#) component.


Declaration

```
property ReplyTo: String;
```

Description

The ReplyTo is the optional property which specifies that you want replies to your outgoing messages sent to a different e-mail address, specified in this property. Specify the ReplyTo address if you wish to get replies to different address than specified in [FromAddress](#) property.

 Usually when the message could not be delivered to recipient it will be returned to the sender, by address specified in [FromAddress](#) property. So you can specify "trashcan" address in [FromAddress](#) but your real address in ReplyTo.

 If the value of ReplyTo property specified, it automatically includes to the header of message as "ReplyTo" field. Leave the ReplyTo value blank if you don't want to include this field to the header of message.

See also

[FromAddress](#) property.

5.2.17 SMTPHost

Applies to

[SendMail](#) component.

Declaration

```
property SMTPHost: String;
```

Description

The SMTPHost property specifies the hostname or IP address of the SMTP server which should be used to relay the e-mail messages to recipients.

See also

[SMTPPort](#) property.

5.2.18 SMTPPort

Applies to

[SendMail](#) component.

Declaration

```
property SMTPPort: Integer; // 25 by default (standard SMTP port)
```

Description

The SMTPPort specifies the port number of SMTP server (specifies the port which listen the server). The standard port number for SMTP protocol is 25.

See also

[SMTPHost](#) property.

5.2.19 Suspended

Applies to

[SendMail](#) component.

Declaration

property Suspended: Boolean;

Description

The Suspended property indicates whether a thread (used for downloading) is currently suspended.

Set Suspended to True to suspend the process temporary; set it False to resume it.

5.2.20 TemplateConverter

Applies to

[SendMail](#) component.

Declaration

property TemplateConverter: [TTextTemplateConverter](#);

Description

The TemplateConverter can be pointed to [TextTemplateConverter](#) component, if you are using the template keywords in your email messages, to translate all the %keywords% in message body and headers of outgoing email, to replace them with actual "Values", specified as the parameters of [converter component](#).

For example, if your message contains keywords like %RECIPIENT_NAME% or %RECIPIENT_EMAIL%, the component will automatically replace them to the actual name and email address of recipient, and the message like

```
To: %RECIPIENT_NAME% <%RECIPIENT_EMAIL%>
Dear %RECIPIENT_NAME%,
etc, etc...
```

will be automatically translated to

```
To: Bill Gates <billgates@microsoft.com>
Dear Bill Gates,
etc, etc...
```

See also

[TTextTemplateConverter](#) component.

5.2.21 Thread

Applies to


[SendMail](#) component.

Declaration

property Thread: TCustomThread; *// Read-only !!*

Description

The Thread property is the pointer to the process thread, which used for sending the data to SMTP server, avoiding suspending of main application thread. This is read-only public property.

 This property can be used only in when [Threaded](#) property is True, since the component does not create any separate thread in non-threaded model. Otherwise this property will return **nil**

(NULL), because the thread not yet created.

See also

[Suspended](#), [ThreadPriority](#) and [Threaded](#) properties.

5.2.22 Threaded

Applies to

[SendMail](#) component.

Declaration

```
property Threaded: Boolean; // True by default
```

Description

The Threaded property used to choose between two working models of acSendMail component.

This property specifies whether the message should be prepared and sent via Internet to SMTP server in *current*, *caller's* thread, or should create *separate* thread which will process the message delivery. Set Threaded to True to create separate thread, or to False if the part of code which calls the [Send](#) method are already in separate, non-interface thread.

Basically there is two possible working models:

1. **Threaded**: when Threaded is True, the component creates new separate thread to produce and send email message to specified [SMTP host](#). In this case the SendMail does not locks the application interface when it connects to the SMTP server and sends the message via Internet, and only produce events synchronized with main application thread (interface).



However, in this model the component can send ONLY ONE message simultaneously, since it can create only one thread to send message. If you will try to send additional message when the component is busy, next email will not be sent, and [Send](#) method will just return False. You should implement some message queue to operate with SendMail in this threading model and don't call [Send](#) method while previous message not yet sent.

Otherwise — set Threaded to False and use non-threaded model to send any number of email messages simultaneously from any number of different threads.

2. **Non-threaded**: when Threaded is False, the component does not creates any separate thread to produce and send email message. This model should be used only if your application uses many threads which could send email message using this component. This model should NOT be used in single-threaded application, since when you call the [Send](#) method, all your application interface will be locked while the component producing and sending the email message.

See also

[Thread](#) property;
[Send](#) method.

5.2.23 ThreadPriority

Applies to

[SendMail](#) component.

Declaration

```
property ThreadPriority: TThreadPriority;
```

Description


ThreadPriority indicates the priority used when scheduling the thread. Adjust the priority higher or

lower as needed.

TThreadPriority type defines the possible values for the priority of SendMail thread, as defined in the following table. The system schedules CPU cycles to each thread based on a priority scale; the Priority property adjusts a thread's priority higher or lower on the scale.

<u>Values</u>	<u>Meaning</u>
tpIdle	The thread executes only when the system is idle. The system will not interrupt other threads to execute a thread with tpIdle priority.
tpLowest	The thread's priority is two points below normal.
tpLower	The thread's priority is one point below normal.
tpNormal	The thread has normal priority.
tpHigher	The thread's priority is one point above normal.
tpHighest	The thread's priority is two points above normal.
tpTimeCritical	The thread gets highest priority.

Warning

 Boosting the thread priority of a CPU intensive operation may "starve" the other threads in the application. Only apply priority boosts to threads that spend most of their time waiting for external events.

See also

[Thread](#) and [WaitThread](#) properties.

5.2.24 ToAddr

Applies to

[SendMail](#) component.

Declaration

```
property ToAddr: String;
```

Description

The ToAddr property specifies the recipients of the message. You can specify any number of e-mail addresses and recipient names.

The value of ToAddr property must have following format:

```
"Name1" <address1>; "Name2" <address2> , "NameN" <addressN>
```

The name of the recipient marked **blue** (must be between quotes (")), i.e: "John Smith"). You can leave the name blank and use just email address;

E-mail address of recipient marked **green** (must be between brackets "<>", i.e: <john@smith.com>).


Multiple recipients should be separated by semicolon (;) or comma (,).

Examples


```
<john@smith.com>
```

```
"John Smith" <john@smith.com>, <info@appcontrols.com>, <webmaster@utilmind.com>
```

```
"Aleksey Kuznetsov" <aleksey@utilmind.com>; "Webmaster" <webmaster@utilmind.com>
```

 Alternatively, if you wish to specify multiple recipients, you can use [ToCC](#) property (carbon-copy). If you wish to hide some email addresses from message header — use [ToBCC](#) property (blind carbon-copy).

Warning

 Please don't use brackets (< and >) in the "Name" fields (between quotes). Otherwise the address will be parsed incorrectly. For example, following address will be parsed incorrectly!!:
["John<g> Smith" <john@smith.com>](#)

However, the parser is smart enough to parse definitions like these:

"John Smith, Inc;" <john@smith.com>
"Smith, "A" John" <john@smith.com>

See also

[ToCC](#) and [ToBCC](#) properties.

5.2.25 ToBCC

Applies to

[SendMail](#) component.

Declaration

property ToBCC: **String**;

Description

The ToBCC property used to specify recipients of the message which addresses should NOT be visible in the message header. This is field known as blind carbon-copy and only the message sender knows to whom the message was sent. All e-mails used in ToBCC will be hidden and recipients will NOT see these e-mail addresses.

The value of ToBCC property must have following format:

["Name1" <address1>; "Name2" <address2> , "NameN" <addressN>](#)

The name of the recipient marked [blue](#) (must be between quotes (")), i.e: "John Smith"). You can leave the name blank and use just email address;

E-mail address of recipient marked [green](#) (must be between brackets "<>", i.e: <john@smith.com>).


Multiple recipients should be separated by semicolon (;) or comma (,).

Examples


<john@smith.com>

"John Smith" <john@smith.com>, <info@appcontrols.com>, <webmaster@utilmind.com>

"Aleksey Kuznetsov" <aleksey@utilmind.com>; "Webmaster" <webmaster@utilmind.com>

 Alternatively, if you wish to specify multiple recipients, you can use [ToCC](#) property (visible carbon-copy).

Warning

 Please don't use brackets (< and >) in the "Name" fields (between quotes). Otherwise the address will be parsed incorrectly. For example, following address will be parsed incorrectly!!:
["John<g> Smith" <john@smith.com>](#)

However, the parser is smart enough to parse definitions like these:

"John Smith, Inc;" <john@smith.com>
"Smith, "A" John" <john@smith.com>

See also

[ToAddr](#) and [ToCC](#) properties.

5.2.26 ToCC

Applies to

[SendMail](#) component.

Declaration

property ToCC: **String**;

Description

The ToCC property used to specify multiple recipients of the message. This is standard field known as carbon-copy and recipient will be able to reply to all others recipients.

The value of ToCC property must have following format:

"Name1" <address1>; "Name2" <address2> , "NameN" <addressN>

The name of the recipient marked **blue** (must be between quotes (")), i.e: "John Smith"). You can leave the name blank and use just email address;

E-mail address of recipient marked **green** (must be between brackets "<>", i.e: <john@smith.com>).


Multiple recipients should be separated by semicolon (;) or comma (,).

Examples


<john@smith.com>

"John Smith" <john@smith.com>, <info@appcontrols.com>, <webmaster@utilmind.com>

"Aleksey Kuznetsov" <aleksey@utilmind.com>; "Webmaster" <webmaster@utilmind.com>

 If you wish to hide recipients from the message header — use [ToBCC](#) property (blind carbon-copy).

Warning

 Please don't use brackets (< and >) in the "Name" fields (between quotes). Otherwise the address will be parsed incorrectly. For example, following address will be parsed incorrectly!!:

"John<q> Smith" <john@smith.com>

However, the parser is smart enough to parse definitions like these:

"John Smith, Inc;" <john@smith.com>

"Smith, "A" John" <john@smith.com>

See also

[ToAddr](#) and [ToBCC](#) properties.

5.2.27 WaitThread

Applies to

[SendMail](#) component.


Declaration

property WaitThread: **Boolean**;

Description

The WaitThread property controls whether the procedure that calls the [Send](#) method (which downloads the data from the Web) should be suspended and wait until the scanning process will be done.

Set the WaitThread to True, if you would like to read the data from the Web so that the application does not continue with next lines of code after calling the [Send](#) method. Your application will done download (or inform about error) before continuing to next step.

 If your application can wait, until the the email will be sent, only for some limited time interval — specify [WaitTimeout](#) property.

See also

[WaitTimeout](#), [Thread](#), [Threaded](#) and [Suspended](#) properties;
[Send](#) method.

5.2.28 WaitTimeout

Applies to

[SendMail](#) component.


Declaration

property WaitTimeout: Integer;

Description

The WaitTimeout property specifies the time interval (limit), in milliseconds unit, which application able to wait while the mail will be sent.

For example, if the maximum time which you can allow to send an email is 5 seconds, set this value to 5000 (milliseconds). If application can wait infinitely, set WaitTimeout to 0.

 When the timeout is expired, the component automatically terminates the process of sending an email. To be notified when the WaitTimeout is expired — write [OnWaitTimeoutExpired](#) event handler.

Notes

The WaitTimeout only works together with [WaitThread](#) property, only when it set to True.

See also

[WaitThread](#), [ThreadPriority](#) and [Suspended](#) properties;
[Send](#) and [Abort](#) methods;
[OnWaitTimeoutExpired](#) event.

5.3 Methods

5.3.1 SaveToFile

Applies to

[SendMail](#) component.


Declaration

function SaveToFile(**const** FileName: **String**): Boolean;

Description

The SaveToFile property generates the e-mail message (including encoded attachment) and stores it to the file (specified in *FileName* parameter). Set *Unsent* parameter to True to add "X-Unsent: 1" field (which means that message not yet sent) to the stored message.

Function returns True if message has successfully saved, or False if it could not be stored by specified *FileName*.

 The created message has standard format (.eml) which can be easily viewed and sent by MS-Outlook e-mail clients.

See also

[Send](#) property.

5.3.2 Send

Applies to

[SendMail](#) component.

Declaration

```
function Send: Boolean; // returns False if busy or WaitTimeout is expired
```

Description

The Send method generates and sends the e-mail message to all recipients specified in [ToAddr](#), [ToCC](#) and [ToBCC](#) properties.

If you are using threaded model ([Threaded](#) property is True), this method may return False if component currently busy (already sending the message), OR [WaitTimeout](#) is expired (if you waiting for completion of request in the function that calls this method, using [WaitThread](#) property).

See also

[Abort](#) method;
[Threaded](#), [ToAddr](#), [ToCC](#) and [ToBCC](#) properties;
[SendMail](#) function.

5.3.3 Abort

Applies to

[SendMail](#) component.

Declaration

```
procedure Abort(HardTerminate: Boolean = True);
```

Description

The Abort method immediately terminates the thread which sends the data via SMTP protocol. After calling the Abort method, the [OnAborted](#) event occurs.

The Abort method contains 1 optional parameter, *HardTerminate* (True by default), which controls whether the application should immediately terminate thread which sends data to SMTP server, or wait when server terminates connection itself.

See also

[Send](#) method; [OnAborted](#) event.

5.4 Events

5.4.1 OnAborted

Applies to

[SendMail](#) component.

Declaration

```
property OnAborted: TNotifyEvent;
```

Description

The OnAborted event occurs when user interrupts the process of sending the e-mail to SMTP

server, after calling the [Abort](#) method.

See also

[Abort](#) method;
[OnWaitTimeoutExpired](#) event.

5.4.2 OnAnyError

Applies to

[SendMail](#) component.

Declaration

```
property OnAnyError: TNotifyEvent;
```

Description

The OnAnyError event occurs when ANY fatal error has occurred on delivering the message to server (except [OnCantAttach](#)).

The fatal error means that message could not be delivered. Such errors can be also handled by following events: [OnConnLost](#), [OnHostUnreachable](#) and [OnSMTPError](#).

See also

[OnConnLost](#), [OnHostUnreachable](#) and [OnSMTPError](#) events.

5.4.3 OnCantAttach

Applies to

[SendMail](#) component.

Declaration**type**

```
TSMTPCantAttachEvent = procedure (Sender: TObject; FileName: String) of  
object;
```

```
property OnCantAttach: TSMTPCantAttachEvent;
```

Description

The OnCantAttach event occurs if the component could not read the file which should be attached (listed in [Attach](#) property).

 This is not fatal error, so SendMail will try to continue sending the message without missed file. If you don't want to continue process — just call [Abort](#) method in the event handler.

See also

[Attach](#) property; [Abort](#) method.

5.4.4 OnConnLost

Applies to

[SendMail](#) component.

Declaration

```
property OnConnLost: TNotifyEvent;
```

Description

The OnConnLost event occurs when the connection with remote server lost for some reason, at the

moment of sending or receiving the data by SMTP protocol.

This is fatal error and [OnAnyError](#) event will occurred after this event.

See also

[OnAnyError](#) event.

5.4.5 OnHostUnreachable

Applies to

[SendMail](#) component.

Declaration

```
property OnHostUnreachable: TNotifyEvent;
```

Description

The OnHostUnreachable event occurs if the SendMail can not establish connection to SMTP server, specified in [SMTPHost](#) property. Possible reasons of this problem is:

1. User currently not connected to the Internet;
2. Hostname is unknown (check spelling of domain name in [SMTPHost](#) property);
3. Invalid SMTP port specified (check the number of SMTP port in [SMTPPort](#) property);
4. Remote server is down (disconnected from Internet).

Example

Delphi:

```
procedure TForm1.SendMailHostUnreachable(Sender: TObject);
begin
    Application.MessageBox(PChar('Specified SMTP server is
    unreachable.'#13#10#10'Please check your Internet connection'#13#10'or
    specify another SMTP host or/and port.'),
                           PChar(Application.Title),
                           MB_OK or MB_ICONSTOP);
end;
```

C++ Builder:

```
void __fastcall TForm1::SendMailHostUnreachable(TObject *Sender)
{
    AnsiString Msg =
        "Specified SMTP server is unreachable.\n\n"
        "Please check your Internet connection\n"
        "or specify another SMTP host or/and port.";
    Application->MessageBox(Msg.c_str(),
                           Application->Title.c_str(),
                           MB_OK | MB_ICONSTOP);
}
```

See also

[SMTPHost](#) and [SMTPPort](#) properties;
[OnAnyError](#) event.

5.4.6 OnProgress

Applies to

[SendMail](#) component.

Declaration

type

```
TSMTTPProgressEvent = procedure (Sender: TObject; MessageSize,  
BytesSent: Integer; PercentsDone: Byte) of object;
```

```
property OnProgress: TSMTTPProgressEvent;
```

Description

The OnProgress event occurs every time when the component has successfully sent the part of e-mail message to SMTP server.

Write OnProgress event handler to show the download progress. The SendMail passes to the event handler following parameters:

Parameter	Meaning
<i>MessageSize</i>	total size of e-mail message in bytes;
<i>BytesSent</i>	number of bytes that already sent to SMTP server;
<i>PercentsDone</i>	progress in percents (0%..100%).

Example

```
procedure TForm1.SendMail1Progress(Sender: TObject; MessageSize,  
BytesSent: Integer; PercentsDone: Byte);  
begin  
  ProgressBar1.Position := PercentsDone;  
end;
```

See also

[OnSuccess](#) event.

5.4.7 OnResponse

Applies to

[SendMail](#) component.

Declaration**type**

```
TSMTTPResponseEvent = procedure (Sender: TObject; Code: Integer; const  
Response: String) of object;
```

```
property OnResponse: TSMTTPResponseEvent;
```

Description

The OnResponse event occurs every time when component receives the response for SMTP request from server. The response contains the status information (code and optional text) of request.

For more information about status codes of SMTP protocol see RFC 821.

Example

```
procedure TForm1.SendMail1Response(Sender: TObject; Code: Integer;  
  const Response: string);  
begin  
  with ListView1 do // status view  
  begin  
    Items.Add(Response);  
    ItemIndex := Items.Count - 1;  
  end;  
end;
```

See also

[OnSMTPError](#), [OnSuccess](#) and [OnProgress](#) events.

5.4.8 OnSMTPError

Applies to

[SendMail](#) component.

Declaration

type

```
TSMTPTResponseEvent = procedure (Sender: TObject; Code: Integer; const
Response: String) of object;
```

```
property OnSMTPError: TSMTPTResponseEvent;
```

Description

The OnSMTPError event occurs when the SMTP server returns an error code with response (see [OnResponse](#) event). After receiving error code, the SendMail component automatically terminates connection with SMTP server, then triggers the OnSMTPError event.

For more information about status codes of SMTP protocol see RFC 821.

Example

```
procedure TForm1.SendMailSMTPError(Sender: TObject;
Code: Integer; const Response: string);
begin
  with StatusList do
    begin
      Items.Add('ERROR: ' + Response);
      ItemIndex := Items.Count - 1;
    end;
end;
```

See also

[OnResponse](#) and [OnAnyError](#) events.

5.4.9 OnSuccess

Applies to

[SendMail](#) component.


Declaration

```
property OnSuccess: TNotifyEvent;
```

Description

The OnSuccess event occurs when the e-mail message has been successfully sent to SMTP server. Use OnSuccess event to be notified when the SendMail successfully dispatched the email message to SMTP server (message will be relayed to recipients shortly by server).

Note

 Successful dispatching of message to SMTP server not gives guarantee of successful delivery to recipients. SMTP server may return the message if it could not be relayed to the mailbox.

See also

[OnResponse](#) and [OnSMTPError](#) events.

5.4.10 OnWaitTimeoutExpired

Applies to

[SendMail](#) component.

Declaration

```
property OnWaitTimeoutExpired: TNotifyEvent;
```

Description

The OnWaitTimeoutExpired event occurs when the component could not send email for the time interval specified in [WaitTimeout](#) property (when [WaitTimeout](#) is expired).

Notes

The [WaitTimeout](#) only works together with [WaitThread](#) property, only when it set to True.

See also

[WaitThread](#) and [WaitTimeout](#) properties;
[Abort](#) method.

5.5 QuickSendMail function

Unit

[SendMail](#)

Declaration

```
function SendMail(const FromAddr, FromName, ToAddr, ToName, Subject,  
Body: String;  
  const SMTPHost: String = 'localhost'; SMTPPort: Word = 25;  
  ContentType: TSMTPContentType = ctHTML; Priority: TSMTPPriority =  
mpNormal;  
  const ContentCharset: String = 'iso-8859-1'; RunInSeparateThread:  
Boolean = True): Boolean;
```

Description

The QuickSendMail function is alternative way to send email messages without having the [SendMail](#) component on the form, and without dynamic creation of SendMail component instances. When you use this function — everything created/released internally.

The QuickSendMail have following set of parameters (some of parameters are optional and may be not specified):

Parameter	Meaning
FromAddr	specifies the email address of sender;
FromName	specifies the name of sender (the name which displayed in email message, can be empty string);
ToAddr	email address of recipient;
ToName	name of recipient (can be empty string);
Subject	the subject of email message;
Body	the text of email message (can contain HTML tags if <i>ContentType</i> is ctHTML, or just plain text if <i>ContentType</i> is ctPlainText);
SMTPHost	the hostname or IP address of SMTP server;
SMTPPort	the port number of SMTP server (standard port for SMTP

	servers is 25);
ContentType	can be ctPlainText if your email message contains just plain text, or ctHTML if it should be HTML-formatted;
Priority	priority of email message (npNormal by default);
ContentCharset	the set of characters of text in email message. Use appropriate definition of charset for language used in email message;
RunInSeparateThread	specifies whether the message should be prepared and sent via Internet to SMTP server in <i>current</i> , <i>caller's</i> thread, or should create <i>separate</i> thread which will process the message delivery. Set this parameter to True to create separate thread, or to False if the part of code which calls the QuickSendMail function are already in separate, non-interface thread.

See also

[SendMail](#) component.

6 TextTemplateConverter component

6.1 TTextTemplateConverter

Overview

The TextTemplateConverter is the utility which translates some specified %keywords% inside the text into some specified values. It can be used as plug-in for [SendMail](#) component to replace some keywords in email templates (like %recipient_email% or %sender_name%) to their actual values.

How to use?

Drop component on your form and specify some keywords which you are using in your text templates to the **Name** properties of [Params](#) collection. Also specify the text strings, which should be replace that keywords, to the **Value** properties of [Params](#). You can modify the collection of Names/Values both at design and run-time.

When your program calls the [Convert](#) method, it will find all the keywords (specified in *Name* properties) within the text template and replace them to their actual values (specified in *Value* properties). For example, our [Params](#) property contains 2 following items:

Item1:

Name = %RECIPIENT_NAME%

Value = Bill Gates

Item2:

Name = %RECIPIENT_EMAIL%


Value = billgates@microsoft.com

Plus we have the text template, which contains %RECIPIENT_NAME% and %RECIPIENT_EMAIL% keywords instead of real name and email address. For example, the text like:

```
To: %RECIPIENT_NAME% <%RECIPIENT_EMAIL%>
Dear %RECIPIENT_NAME%,
etc, etc...
```

After calling the [Convert](#) method, all the keywords specified in Name property of each item will be replaced by the words specified in Value property. For example, after conversion, the text displayed above will look like follows:

```
To: Bill Gates <billgates@microsoft.com>
Dear Bill Gates,
etc, etc...
```


 The keywords can look like **%KEYNAME%**, or **<KEYNAME>**, or just **KEYNAME**, whatever you like. In most cases you should specify the keywords which are used in your text templates just once, and you can do it at design-time and don't modify them at run-time at all.

However, your program should specify required *Values* every time before processing of the template (before the program calls [Convert](#) method to translate the keywords into the values). To specify the *Values* for each required keyword (*Names*) you can use [ParamByName](#) method, or just enumerate each item of [Params](#) collection. Here is some examples:

```
// how to add the the template parameters at run-time
var
  Param: TacTemplateParameter;
begin
  Param := TextTemplateConverter1.Params.Add;
  Param.Name := '%keyword%';
  Param.Value := 'Value';

// how to modify the template values at run-time
TextTemplateConverter1.ParamByName('%keyword%').Value := 'value';
TextTemplateConverter1.ParamByValue('value').Name :=
'%another_keyword%';

// also you can enumerate all parameters
var
  I: Integer;
begin
  I := TextTemplateConverter1.Count;
  if I <> 0 then
    for I := 0 to I - 1 do
      with TextTemplateConverter1 do
        Caption := Params[I].Name + ' = ' + Params[I].Value;
    end;
```

 If you are using this component as plug-in for [SendMail](#) component, to replace the keywords in email templates, you don't need to call [Convert](#) method. All that you need is just point the TextTemplateConverter to the TemplateConverter property of [SendMail](#) component and all the text of outgoing email, the body of message and the message headers will be translated automatically.

See also

[SendMail](#) component.

6.2 Properties

6.2.1 IgnoreCaseOfParams

Applies to

[TextTemplateConverter](#) component.

Declaration

```
property IgnoreCaseOfParams: Boolean; // True by default
```

Description

The IgnoreCaseOfParams property controls whether the component should ignore the case of

character on [conversion](#), when it checks the text for the keywords described in **Name** property of [Params](#) collection.

Set IgnoreCaseOfParams to True, and [Convert](#) method will replace the keywords with their values independently of case of characters, so the keyword like **%kEyWoRd%** is the same as **%Keyword%**. Otherwise, set it to False and the [Convert](#) method will find only keywords with the same charcase as specified in the Name properties of [Params](#) items.

See also

[Params](#) property;
[Convert](#) method.

6.2.2 Params

Applies to

[TextTemplateConverter](#) component.

Declaration

```
type
  TacTemplateParameter = class(TCollectionItem)
  published
    property Name: String;
    property Value: String;
  end;

  TacTemplateParameters = class(TCollection)
  public
    function Add: TacTemplateParameter;
    function Convert(const Value: String): String;

    property Owner: TComponent read FOwner;
    property IgnoreCase: Boolean;
    property Items[Index: Integer]: TacTemplateParameter; default;
  end;

  property Params: TTextTemplateParameters; // True by default
```

Description

The Params is the collection of keywords (and their values) which should be converted in the template.

Each item of Params collection is the object which contains 2 properties: **Name** and **Value**. The Name property specifies the template keyword which can be used in the text templates, and Value property is the actual string which could replace the template keyword.

For example, our Params property contains 2 following items:

```
Item1:
  Name  = %RECIPIENT_NAME%
  Value = Bill Gates

Item2:
  Name  = %RECIPIENT_EMAIL%
  Value = billgates@microsoft.com
```

Plus we have the text template, which contains %RECIPIENT_NAME% and %RECIPIENT_EMAIL% keywords instead of real name and email address. For example, the text like:

```
To: %RECIPIENT_NAME% <%RECIPIENT_EMAIL%>
```

```
Dear %RECIPIENT_NAME%,
etc, etc...
```

After calling the [Convert](#) method, all the keywords specified in Name property of each item will be replaced by the words specified in Value property. For example, after conversion, the text displayed above will look like follows:

```
To: Bill Gates <billgates@microsoft.com>
Dear Bill Gates,
etc, etc...
```

Examples

```
// how to add the the template parameters at run-time
var
  Param: TacTemplateParameter;
begin
  Param := TextTemplateConverter1.Params.Add;
  Param.Name := '%keyword%';
  Param.Value := 'Value';

// how to modify the template values at run-time
TextTemplateConverter1.ParamByName('%keyword%').Value := 'value';
TextTemplateConverter1.ParamByValue('value').Name :=
'%another_keyword%';

// also you can enumerate all parameters
var
  I: Integer;
begin
  I := TextTemplateConverter1.Count;
  if I <> 0 then
    for I := 0 to I - 1 do
      with TextTemplateConverter1 do
        Caption := Params[I].Name + ' = ' + Params[I].Value;
    end;
```

See also

[IgnoreCaseOfParams](#) property;
[ParamByName](#), [ParamByValue](#) and [Convert](#) methods.

6.3 Methods

6.3.1 Convert

Applies to

[TextTemplateConverter](#) component.

Declaration

```
function Convert(const Value: String): String;
```

Description

The Convert method checks the template string specified in Value parameter, found in that string all the **%keywords%** specified in **Name** property of [Params](#) collection, replaces the **%keywords%** with the text specified in **Value** property of [Params](#).

Function returns the translated string, where all template keywords are replaced with their values.

See also

[Params](#) property;
[ConvertStrings](#) and [ConvertStream](#) methods.

6.3.2 ConvertStrings

Applies to

[TextTemplateConverter](#) component.

Declaration

```
procedure ConvertStrings(Strings: TStrings);
```

Description

The ConvertStrings method is the same as [Convert](#), but translates the string lists.

It checks the template string specified in Value parameter, found in that string all the **%keywords%** specified in **Name** property of [Params](#) collection, replaces the **%keywords%** with the text specified in **Value** property of [Params](#).

After calling the ConvertStrings method, the Strings parameter will contain translated text, where all keywords replaced with their actual values.

Example

```
ConvertStrings(Memo1.Lines);
```

See also

[Params](#) property;
[Convert](#) and [ConvertStream](#) methods.

6.3.3 ConvertStream

Applies to

[TextTemplateConverter](#) component.

Declaration

```
procedure ConvertStream(Stream: TStream);
```

Description

The ConvertStream method is the same as [Convert](#), but translates the text in the streams or their descendants (MemoryStream's, FileStream's etc).

It checks the template string specified in Value parameter, found in that string all the **%keywords%** specified in **Name** property of [Params](#) collection, replaces the **%keywords%** with the text specified in **Value** property of [Params](#).

After calling the ConvertStream method, the Stream will contain translated text, where all keywords replaced with their actual values.

Example

```
procedure TForm1.Button1Click(Sender: TObject);
var
  fs: TFileStream;
begin
  fs := TFileStream.Create('c:\file.txt', fmOpenReadWrite);
  try
    TextTemplateConverter1.ConvertStream(fs);
```



```

    finally
        fs.Free;
    end;
end;

```

See also

[Params](#) property;
[Convert](#) and [ConvertStrings](#) methods.

6.3.4 ParamByName

Applies to

[TextTemplateConverter](#) component.

Declaration

```

type
    TacTemplateParameter = class(TCollectionItem)
    published
        property Name: String;
        property Value: String;
    end;

function ParamByName(const ParamName: String): TacTemplateParameter;

```

Description

The ParamByName method returns the pointer to TacTemplateParameter object where the *Name* property is equal to the *ParamName* parameter.

You can use this method to quickly find the keyword and modify its *Value*.

 Function returns NIL if the specified *ParamName* was not found in [Params](#) collection.

Example

```
acTemplateConverter1.ParamByName('%keyword%').Value := 'New Value for Keyword';
```

See also

[Params](#) property;
[ParamByValue](#) and [Convert](#) methods.

6.3.5 ParamByValue

Applies to

[TextTemplateConverter](#) component.

Declaration

```

type
    TacTemplateParameter = class(TCollectionItem)
    published
        property Name: String;
        property Value: String;
    end;

function ParamByValue(const ParamValue: String): TacTemplateParameter;

```

Description

The ParamByValue method returns the pointer to TacTemplateParameter object where the *Value* property is equal to the *ParamValue* parameter.

You can use this method to quickly find some value in the [Params](#) collection and modify its *Name*.

 Function returns NIL if the specified *ParamValue* was not found in [Params](#) collection.

Example

```
acTemplateConverter1.ParamByValue('The Value').Name :=  
'%another_keyword%';
```

See also

[Params](#) property;
[ParamByName](#) and [Convert](#) methods.

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