

Bulk eMailer – “BMailer”

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The idea is to create an application that will send out emails in a batch process. It's called "Bmailer" which is short for "Bulk e-Mailer". This C++ Dot Net program takes as input two previously prepared files. The first is a text file with a list of the recipients email addresses. The list could be hundreds of addresses long. The second is a template text file that will be sent to each recipient.

When the "Send Mail" button is clicked, the application starts sending out the emails to the given SMTP provider. Since some providers don't allow high speed batch processing, an optional 30 second delay is provided between outputs.

At the meeting we will discuss some of the important features of the application. These include: Address syntax checking, delayed (timed) startup, high security option, three types of embedded objects and attachments, recovery after errors, HTML options, and other issues.

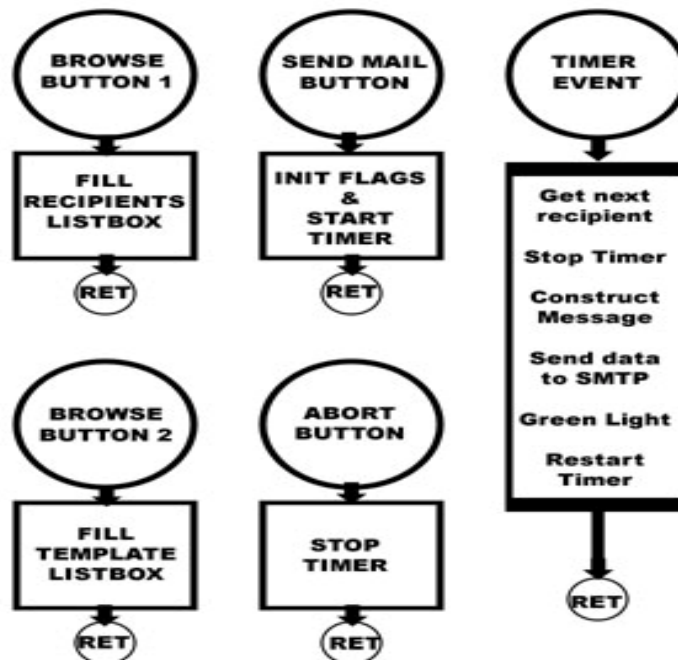
Although a listing of each revision or version can be boring, it does give a sense of the amount of detail that went into developing the program. Version details follow:

Version 1.30 3/26/2009 New option to Embed Attachment in Body of email. Delayed start added so that mailing starts at a future time.

Version 1.27 3/22/2009 Failed recipient addresses are now colored in RED. See Recipients_DrawItem().

- Version 1.25 3/20/2009 Drag and Drop functionality added to attachment listbox. See AttachmentFile_DragDrop().
- Version 1.24 3/19/2009 Are you sure? added to Send button. The recipients file is checked for addresses containing ";;". These are highlighted. The counter now shows two numbers like 23/700. The logs now display the line number in the recipients file. A Checkbox has been added to disable any stopping on errors. A Select Start checkbox has been added to allow starting in the middle of the recipients list after an about.
- Version 1.22 3/01/2009 Attachments ComboBox added to allow for multiple attachments. More registry info saved: Recip., Template, Password.
- Version 1.21 2/28/2009 A few more content types added to DoSendMail(). ClientSize error corrected. Initial size must be less than 800 to accomodate users with 800 x 600 video settings.
- Version 1.20 2/28/2009 Save most typed information in Registry. Field added so that one attachment may be added at end.
- Version 1.14 1/28/2009 DoSendMailExecute() created with improved error trapping.
- Version 1.12 1/26/2009 Truetype, TT, button added to toggle fonts. Listbox dimensions widened. Try-Catch block added to Launch Edit. Icon added near title.
- Version 1.11 1/21/2009 High Security option uses port 587 instead of 25. It also turns on SSL (Secure Sockets Layer). Verbose SMTP error messages are now presented. Two log files are created for Send Mail and Errors.
- Version 1.05 1/13/2009 New buttons and functions added to edit text files. Background color changes dynamically. Checkbox added for "Hi Frank," option.
- Version 1.02 1/12/2009 DoSendMail(), Add HI FIRSTNAME logic. See line 590. Check for HTML in Template source.
- Version 1.01 12/17/2008 DoSendMail(), IsBodyHtml added. See line 587.

BMAILER LOGIC



B. ARNOLD DECEMBER 2008

Background Material

Internet Mail and other features are standardized by the Internet Engineering Task Force. Their main web site is www.ietf.org



I E T F[®]

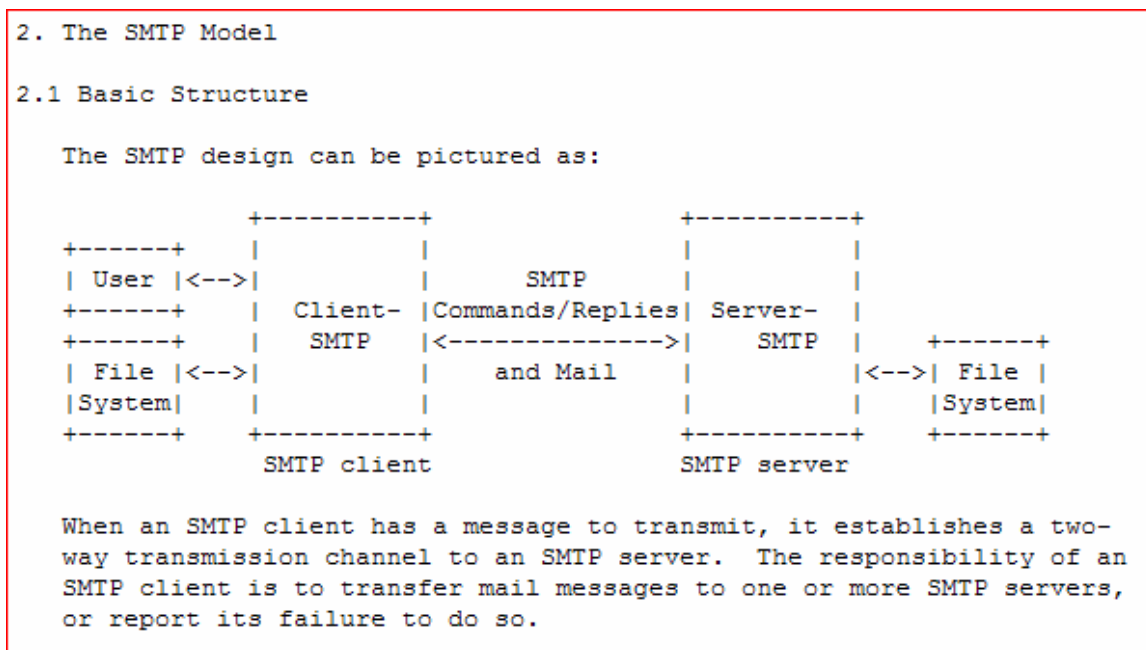
The Internet Engineering Task Force

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There are two primary specifications for Internet Mail: RFC 1123 and RFC 2821.

RFC 1123 defines the requirements for Internet Hosts (Application and Support)

RFC 2821 defines the basic protocol for the Internet electronic mail transport. It defines the SMTP (Simple Mail Transfer Protocol) communication in the following diagram:



SMTP Error Responses

1. The SMTP service is closing the transmission channel.
2. The user mailbox is not located on the receiving server; the server forwards the e-mail.
3. The specified user is not local, but the receiving SMTP service accepted the message and attempted to deliver it. This status code is defined in RFC 1123, which is available at <http://www.ietf.org>.
4. The SMTP service is not available; the server is closing the transmission channel.
5. The destination mailbox is in use.
6. The SMTP service cannot complete the request. This error can occur if the client's IP address cannot be resolved (that is, a reverse lookup failed). You can also receive this error if the client domain has been identified as an open relay or source for unsolicited e-mail (spam). For details, see RFC 2505, which is available at <http://www.ietf.org>.
7. The SMTP service does not have sufficient storage to complete the request.
8. The client was not authenticated or is not allowed to send mail using the specified SMTP host.
9. The SMTP service does not recognize the specified command.
10. The syntax used to specify a command or parameter is incorrect.
11. The SMTP service does not implement the specified command.
12. The commands were sent in the incorrect sequence.
13. The SMTP server is configured to accept only TLS connections, and the SMTP client is attempting to connect by using a non-TLS connection. The solution is for the user to set `EnableSsl=true` on the SMTP Client.
14. The SMTP service does not implement the specified command parameter.
15. The destination mailbox was not found or could not be accessed.
16. The user mailbox is not located on the receiving server. You should resend using the supplied address information.
17. The message is too large to be stored in the destination mailbox.
18. The syntax used to specify the destination mailbox is incorrect.
19. The transaction failed.
20. The transaction could not occur. You receive this error when the specified SMTP host cannot be found.

Note: this application is available for free download at www.barnold.us/Bmailer .

The source code is available at the ACGNJ CSIG web site. www.acgnj.org .