NetIdSMTP

by Jason Gouger

COLLABORATORS			
	TITLE : NetIdSMTP		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY	by Jason Gouger	July 22, 2024	

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

NetIdSMTP

1.1   NetIdSMTP - By Jason Gouger

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*********************************************
*                                           *
*          NetIdSMTP Version 1.01       *
*                                           *
*        Written By, Jason Gouger        *
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*                                           *
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1.2   Disclaimer

   I hereby grant permission for anyone to freely distribute this program as
long as this documentation file is distributed with it. In no way should the
documentation or the program be modified, or sold for profit. This program
cannot be included with any other packages unless the author is contacted and
the express written permission is given. I cannot be held responsible for
damage that occurs as a result of the use/misuse of this program as I have made
every effort to ensure NetIdSMTP operates properly.

1.3   Introduction

   My intention when writing this program, was to produce a piece of software
for sending a batch of mail files. With the option to convert from headers to
different addresses. This allows people without a private network address to
send E-Mail with the proper from line. Also it creates a somewhat secure way of

not allowing incorrect or invalid from lines from being included with the mail.
The program is not for receiving mail, for that use AmiPOP. This program uses
the spooled mail file produced by SMail. Or any mail file that is in a SMTP
mail format. If you use this program with SMail you should have the BSMTP
spool option ON and compression set to NONE.

1.4 Requirements

    A network link (obviously).
    AmiTCP V3.0 or later.
    SMail or similar.

1.5 Installation

      You need to set the following variables in your ELM config file. The
config file should be located/named one of the following:

    1) UULib:Config [UULib: Assignment]   (Highest Priority)
    2) S:UUConfig   [S:Assignment]   (Lowest Priority)

Whichever is found first WILL be used. This should be the config you use for
SMail or similar.

Config File Options:

    =============
    = NetIdArgs =
    =============

If you want arguments accepted from the command line. (yes/no) This is a
security feature so the config can not be changed via the command line.

    =============
    = NetIdFile =
    =============

The fullpath and name of the NetId config file. More information on this
later.

    =============
    = NetIdHost =
    =============

SMTP Hostname for mail transfers.

    =============
    = NetIdMail =
    =============

SMTP Spooled mail file (created by SMail or similar).

```
      =============
      = NetIdHelo =
      =============
```

This is the Hostname sent to the remote mailer before the mail transfer.

```
      =============
      = NetIdHome =
      =============
```

This is your local hostname which is used to return undeliverable mail.

```
      =============
      = NetIdMChk =
      =============
```

Setting this option to 'Yes' will enable "MailFile Only StartUp" mode. When
this mode activated the program will only startup if the mailfile EXISTS,
otherwise it will simply exit the program without any output.

Note: You should only set this mode once the program is FULLY configured.

```
      =============
      = NetIdMDir =
      =============
```

This is the directory where the "mail" commands are located, ie SMail, mail,
etc.

```
      =============
      = NetIdSend =
      =============
```

This command is used to return undeliverable mail. Assemble the sendmail
command with the following text sequences. The ~t sequence will be substituted
with the TO address and the ~f will have the mail file name substituted.

Example: SMail -t ~t <~f

If the address was jgouger and the file was T:AAAA0001.

The following command would be executed:
      SMail -t jgouger <T:AAAA0001

More information:

  ~NetIdConfig~File~~
  ~Other~Information~

1.6 NetIdConfig File

 NetIDConfig Line: ID|SMTP From address|From: line address|Realname

 Information on Fields:

```
======
= ID =
======
```

The Id used on the system to send mail. The following two formats will be
converted to the id without the host information.

```
    1) jgouger@email.psu.edu would be converted to jgouger.
    2) email!email.psu.edu!jgouger would be converted to jgouger.

       Any format without the "@" or "!" symbols will NOT be converted.
```

```
=====================
= SMTP From address =
=====================
```

This address is passed to the SMTP Mailer as the sender of the mail.

```
=====================
= From: Line address =
=====================
```

This address is substituted into the header for all From: lines and into the
Return-View-To: and Return-Receipt: lines IF the address MATCHES the From: line
address.

```
 Example: If the from argument was: jgouger@email.psu.edu

    Mail Header:

        To: jgouger@email.psu.edu
        From: john@amiga (John Doe)
        Subject: Test msg
        From: jane@amiga (Jane Doe)
        Return-View-To: john@amiga (John Doe)
        Return-Receipt-To: jane@amiga (Jane Doe)

         This header would be converted to:

        To: jgouger@email.psu.edu
        From: jgouger@email.psu.edu  <== Notice new address and the
        Subject: Test msg                 other from line(s) removed.
        Return-View-To: jgouger@email.psu.edu <== Notice address substituted
        Return-Receipt-To: jane@amiga (Jane Doe) <== Notice address was NOT
                                          substituted since the
                                          address did NOT match the
                                          from line.
```

```
=============
= Real Name =
=============
```

This name is tacked onto the From: line address.

```
    Example: If the real name argument was: Jason Gouger
```

```
     The From: line from above example would be:

     From: jgouger@email.psu.edu (Jason Gouger)

  Note: If you do NOT want a real name passed to the from line place an "*"
        in the argument slot.
```

```
More information:

  ~Other~Information
```

1.7 Other Information

```
     You MUST have an entry in the config file for every user permitted to send
network mail. Otherwise the mail will be returned.

     If you run this program in conjuction with MultiUser, you should set the
Uid bit so it is run by the root.  This will allow for the reading and deleting
of the mail file. Also you should have the NetIdArgs option set for "no" so
options can not be passed to the program.  This will somewhat secure the
program from being altered.
```

1.8 Usage

```
  This program is fairly simple to run once you have everything configured.
  It will send and delete the mail file if no errors are detected. Simply
  type NetIdSMTP and it will run the program without user intervention.
  If a non fatal error is detected while sending, the message will be
  returned. Otherwise the mail program will exit.

  Template:

  MAILFILE,SMTPHOST,NETIDFILE,DEBUG/S,VERBOSE/S

  If the NetIdArgs is set to 'Yes' command line options will OVERRIDE
  configured options. Otherwise they will be ignored.

  MAILFILE is the SMTP spooled mail file name.
  SMTPHOST is the SMTP server.
  NETIDFILE is the Network Id config file.
  DEBUG will display the commands sent to the mailer instead of actually
        sending the commands to the mailer.
  VERBOSE will display the commands sent to the mailer as they are being
          sent to the mailer.

  Note: The DEBUG and VERBOSE arguments will be IGNORED if the NetIdArgs
        option is set to 'Yes'.
```

1.9 Comments and Bug Reports

```
    Send Comments and Bug reports to:

            jgouger@psu.edu    - Internet Address
            gouger@cse.psu.edu - Internet Address
            Jason Gouger       - Fidonet 1:268/114
```

1.10 History

==> 1.00 ==>

First release of NetIdSMTP.

==> 1.01 ==>

The configuration file now includes SEVERAL new options including NetIdMDir
(Mail command directory), NetIdHome (Home hostname extension), NetIdHelo (Sent
to remote mailer for HELO response, and NetIdMChk (no operation unless mail
file is present). Several of the algorithms have been rewritten and a general
clean up of the code was conducted. Return-View-To: and Return-Receipt-To:
lines will have the new from address substituted in them if the address MATCHES
the from address. Two new arguments have been added which are DEBUG and
VERBOSE. The VERBOSE option will display the EXACT text going to the mailer.
The DEBUG option does the same thing as VERBOSE except NetIdSMTP will NOT
connect to the remote host.