15.0 FEMIS PC Utilities

The FEMIS PC utilities are a collection of programs distributed with FEMIS. Some are programs that are used by FEMIS. Some are configured when FEMIS is installed and are run automatically every time the computer is booted. Other utilities are intended to be run at any time.

15.1 FSTARTUP

FSTARTUP.EXE is the FEMIS startup script. It should be set to run automatically each time a user logs into Windows NT. It maps network drives and runs startup scripts specified in the %windir%\FEMIS.INI file.

For each entry in the [FemisPC] section of FEMIS.INI, FSTARTUP.EXE looks for

```
XDriveNetPath=<network path>
```

FSTARTUP.EXE will attempt to connect drive X:\ to the network path specified where X:\ can be any drive letter. It will attempt to make the connection using the Windows NT login username and password. To specify a different username or password, use the following options:

```
XDriveConnectAs=<username>
XDrivePassword=<password>
```

FSTARTUP.EXE also looks for the entries

```
LocalStartupScript=<filename>
EMIS_StartupScript=<filename>
```

Where filename specifies the full path to a file. FSTARTUP.EXE will attempt to run files specified in these two entries.

15.2 FUPDATE.BAT

FUPDATE.BAT is a utility that can be used to update files, such as the HOSTS file or GIS data files, on all FEMIS PCs. The M:\FUPDATE.BAT file contains comments with directions on how to configure it to update files on all FEMIS PCs. These directions are near the bottom of the file and include an example. The directions specify you should copy the example and modify it as needed.

When updating GIS files, it is necessary to know the path to which the GIS was installed and sometimes the size of the GIS that was installed. These can be determined by adding the following line to FUPDATE.BAT.

```
call %FemisTopDir%\GIS\<site_code>_ENV.BAT
```

This call will set two environment variable:

GisTopDir – This is the top level directory for the GIS data. For example, it might be C:\FEMIS\GIS\DCD1 if you were in DCD1 and had installed the GIS on your C:\ drive. This environment variable can be useful for sites where people install the GIS on different drives.

GisSize – This environment variable will contain the relative size of the GIS (SMALL, MEDIUM, or LARGE). This environment variable can be useful if you need to update the FEMISGIS.INI files for a site where not everyone installed the same size GIS data.

The example below shows the lines that need to be added to FUPDATE.BAT to replace an image file on PCs that have installed the large UMCD GIS and also shows how to use the environment variables described above.

```
set patchxx=%femistopdir%\patches\patch_000.txt
if exist %patchxx% goto SKIP_PATCH_000
  echo * * * MSG: Doing Patch #000:
    call %FemisTopDir%\GIS\UMCD_ENV.BAT
    if %GisSize%==LARGE   xcopy /f m:\umcd500k.tif %GisTopDir%\images
  echo "done" > %patchxx%
:SKIP_PATCH_000
```

15.3 WINECHO

This program is for use by NT-DOS batch files running under Windows NT and allows a batch file to give a message to the user in a normal Windows message box. This utility is used by several batch files and the setup program.

Usage:

WINECHO message text.
WINECHO [/Beep] [/Info] [/Warn] [/Stop] /Msg:message text.

Parameters:

/Beep	Beep the speaker
/Info	Use the information icon in the message box
/Warn	Use the warning icon in the message box
/Stop	Use the stop icon in the message box
/Msg:	Any text following /Msg: will be shown in the message box. If any other parameters (/Beep, /Info) are specified, then /Msg: must be specified.

15.4 FIXINI

This program "fixes" the FEMIS.INI file by determining the PC name and setting the correct paths and filenames for some of the COTS packages used by FEMIS. The COTS that FIXINI.EXE will search for include the following:

ArcView GIS

E-mail package. FIXINI.EXE will search for Novel GroupWise, Microsoft Outlook, and Eudora. If more than one of these is found, FIXINI.EXE will prompt the user to select the package to be used by FEMIS.

This utility is called by the FEMIS Setup program. If any command line parameters are specified, then the program will exit immediately after writing information to FEMIS.INI. Otherwise, it will wait for the user to click OK.

15.5 WRITEREG

WRITEREG writes a value into the Registry. This is used by several batch files to add the correct ODBC information for FEMIS users.

Usage:

WRITEREG [/?] [/Q] [/D] /T:'type' /R:'registry' [/N:'itemname'] /V:'value'

Parameters:

/? = Help message.
/Q = Quiet mode-no status messages.
/D = Delete entry (/V parameter not needed for delete).
/T:'x' = Registry type.
R = HKEY_CLASSES_ROOT
C = HKEY_CURRENT_USER
M = HKEY_LOCAL_MACHINE
U = HKEY_USERS
/R:'x' = Registry entry.
/N:'x' = Value Name.
/V:'x' = Value to set.

If a value begins with '#', it is written as a DWORD value, otherwise it is treated as a string value.

Note: Value 'x' must be within apostrophes if the value contains a space, otherwise the apostrophes are not needed.

Example:

WRITEREG /T:C /R:'Software\ODBC\ODBC.INI\XXXX' /N:Server /V:FI_XXXX

15.6 WRITEINI

WRETEINI writes a value into an INI file. This is used by several batch files to add the correct ODBC information for FEMIS users.

Usage:

WRITEINI [/?] [/Q] /F:'file' /S:'section' /I:'item' [/V:'value']

Parameters:

/? = Help message.
/Q = Quiet mode--no status messages.
/F:'x' = INI filename to use.
/S:'x' = Section name in INI file.
/I:'x' = Item (key) in INI file.
/V:'x' = Value to set. (No value = Delete entry)

Note: Value 'x' must be within apostrophes if the value contains a space, otherwise the apostrophes are not needed.

Example:

WRITEINI /F:'FEMIS.INI' /S:'FemisPC' /I:'FemisUserTopDirUNIX' /V:'/home/femis/user'

15.7 MSGBOX

MSGBOX gives a Windows message box to the user. This allows the batch file to determine which button the user clicked so it may skip some steps. This is not used by any FEMIS batch files at this time, but may be used by FUPDATE.BAT files at some FEMIS sites.

Usage:

MSGBOX [/?] [/BTN:x] [/ICO:x] /M:'message' [/T:'title']

Parameters:

/? = Help message.
/M:'x' = Message to show the user.
/T:'x' = Title of message box window. (Default = 'Message')
/BTN:'x' = Button combination to show user. (Default = OK)
OC = OK & Cancel buttons
YN = Yes & No buttons
YNC = Yes & No & Cancel buttons
The button clicked can be determined by the ERRORLEVEL.
OK,YES = 0
NO = 1
CANCEL = 2
/ICO:'x' = Icon to show in message box. (Default = No icon.)
Q = Question
I = Information
E = Exclamation
S = Stop

Note: Value 'x' must be within apostrophes if the value contains a space, otherwise the apostrophes are not needed.

Example:

```
MSGBOX  /M:'Update your GIS data now?  This could take several minutes to copy.'  /BTN:YN
/ICO:Q
      IF ERRORLEVEL==1 GOTO LABEL_SKIP_COPYING
        ::**(Copy files)
      :LABEL_SKIP_COPYING
```

15.8 AUTOEXNT

AUTOEXNT is public domain software written by Jan van Eekeren (janveeke@microsoft.com). The version of this software, installed with FEMIS, was obtained from the Microsoft Windows NT Resource Kit CD. The zip file for this software also is available via the Internet.

The purpose of AUTOEXNT is to automatically run a batch script at boot up time. The AUTOEXNT.BAT batch script is run only once per cold boot of the PC. AUTOEXNT is installed as an automatic service in the Windows NT Control Panel.

In FEMIS v1.4.7, the purpose of AUTOEXNT is to automatically set the PC's internal clock using the NTP utility program NTPDATE.

15.9 NTPQ

NTPQ is the NTP query program that queries the NTP servers on the network. NTPQ is installed both on the FEMIS UNIX server and on PCs. Useful reports can be obtained using the following commands:

```
>> ntpq  -p
>> ntpq  -p -n
```

The listing displayed shows the name or IP address of each NTP server on the network, the type of reference clock at each server, time correction statistics for each server, and from which server the client currently is acquiring synchronization (line with asterisk).

Example:

```
>> ntpq -p
remote           refid      st t when poll reach   delay   offset  disp
napoleon.eoc.org r11.eoc.org 3 u  487 1024  77    15.27   38.875  21.88
*wwvradio.eoc.org .WWVB.     1 u  233 1024  377    0.00   42.457  27.34
```

For a detailed description of the fields displayed by NTPQ, refer to the man pages. On any web browser, open http://www.eecis.udel.edu/~ntp/. Field st is the stratum number. The when and poll show when the server will again be polled. The when number increases once each second. When when reaches poll, the client polls the server. The value of poll starts at 64 (about 1 minute) and increases up to 1024 (about 17 minutes). The numbers in delay, offset, and disp represent the adjustment parameters.

15.10 NTPDATE

NTPDATE is the NTP set date program that can be used with cron to implement time adjustments. However, it is usually used to make a preemptive adjustment to the PC's internal time of day clock. The single argument to NTPDATE is the NTP server's name or IP address. NTPDATE is available both on UNIX server and on PCs.

To use NTPDATE, you must be logged in as root on the UNIX server or as Administrator on the PC. To run NTPDATE, the NTP service must not be active, as there can be only one user of the NTP port (IP service port number 123) at a time. On Windows NT, the -b option is required.

Example:

```
>> ntpdate -b napoleon
15 Oct 11:50:05 ntpdate: step time server 13.2.8.43 offset 0.005444 sec
```

15.11 INSTSRV

This program is used to install Windows NT services from the command line.

Usage:

```
instsrv <service name> <exe location>
   to install a service, or:
instsrv <service name> remove
   to remove a service
instsrv <service name> query
   to query a service configuration
```

15.12 SWITCHDB

This program is used to change the default database that FEMIS connects to and to attach the FEMIS planning database. This program is accessible from Start → Programs → FEMIS → Change Default Database.

15.13 FUNITCVT

This program provides users an easy method of converting units for temperature, weight, length, area, volume, speed, and pressure. This is a Windows NT application.

15.14 Stand-Alone Watchful Eye

The Stand-Alone Watchful Eye is an application that allows FEMIS users to be notified when an event occurs or other important decisions are made. The main use of this application is so users can monitor events without having to run the FEMIS application, which consumes significant PC resources. The user

registers interests in specific events. When an event of interest occurs, the Watchful Eye responds according to the user's preferences. The user may then start the FEMIS application to obtain the details for the event.

15.15 Remote Evacuee Registration

The Remote Evacuee Registration (RER) application will provide users with the capability to enter evacuee information from shelters during emergencies. The user does not need to be connected to the network in order to use the application. A dialup connection to the server can be established via a modem link whereby the evacuee information can be uploaded on request. This offers the convenience of being able to register evacuees from remote locations via a laptop or other portable PC. Use Point-To-Point Protocol (PPP) to establish a modem link.

The RER application can be installed as a part of the standard FEMIS installation process.